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1.363 node-glob 7.2.0
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1.364 istanbul-lib-coverage 3.2.0
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1.365 @babel/preset-modules 0.1.5
1.365.1 Available under license
1.366 unicode-canonical-property-names-ecmascript 2.0.0
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1.367 wide-align 1.1.5
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1.368 istanbul-lib-source-maps 4.0.1
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1.370 babel-plugin-istanbul 6.1.1

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1.374 @npmcli/node-gyp 1.0.3

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1.380 lines-and-columns 1.2.4

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1.381 sockjs-node 0.3.24

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1.382 webpack-dev-middleware 5.3.0

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- 1.390 ajv-formats 2.1.1**
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- 1.391 css-loader 6.5.1**
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- 1.392 glob-parent 6.0.2**
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- 1.393 postcss-loader 6.2.1**
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- 1.394 schema-utils 4.0.0**
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- 1.395 postcss-page-break 3.0.4**
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- 1.397 postcss-selector-not 5.0.0**
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- 1.398 ajv-keywords 5.1.0**
 - 1.398.1 Available under license
- 1.399 @discoveryjs/json-ext 0.5.6**
 - 1.399.1 Available under license
- 1.400 es-module-lexer 0.9.3**
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- 1.407 @babel/plugin-transform-async-to-generator 7.16.8**
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1.411 @babel/helper-annotate-as-pure 7.16.7

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1.412 node-gyp 8.4.1

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1.413 @babel/plugin-proposal-async-generator-functions 7.16.8

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1.414 core-js 3.20.3

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1.416 source-map-resolve 0.6.0

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1.417 @types/range-parser 1.2.4

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1.418 @types/connect 3.4.35

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1.419 @types/body-parser 1.19.2

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1.420 @types/connect-history-api-fallback 1.3.5

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1.421 @types/serve-index 1.9.1

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1.422 webpack-sources 3.2.3

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1.423 picomatch 2.3.1

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1.424 mini-css-extract-plugin 2.5.3

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1.425 chokidar 3.5.3

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1.426 babel-plugin-transform-runtime 7.16.10

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1.427 @types/sockjs 0.3.33

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1.428 postcss-preset-env 7.2.3

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1.431 supports-preserve-symlinks-flag 1.0.0
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1.432 @types/bonjour 3.5.10
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1.433 source-map-js 1.0.2
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1.434 xunit.net-[abstractions] 2.0.3
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1.435 types-estree 0.0.51
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1.436 @gar/promisify 1.1.3
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1.437 signal-exit 3.0.7
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1.438 @babel/preset-env 7.16.11
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1.439 jest-worker 27.5.1
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1.442 hosted-git-info 4.1.0
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1.443 mime-db 1.52.0
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1.444 expressjs-accepts 1.3.8
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1.445 @npmcli/fs 1.1.1
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1.457 types-json-schema 7.0.11

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1.475 @jridgewell/gen-mapping 0.1.1
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1.476 @colors/colors 1.5.0
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1.477 dom-serializer 1.4.1
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1.478 @ampproject/remapping 2.2.0
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1.483 destroy 1.2.0
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1.485 @babel/core 7.16.12
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1.487 array-union 3.0.1

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1.494 @npmcli/run-script 2.0.0

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1.496 eventemitter-asyncresource 1.0.0

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1.509 typed-assert 1.0.9

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1.513 sindresorhus-globby 12.2.0

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1.514 @assemblyscript/loader 0.10.1

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1.515 resolve-url-loader 5.0.0

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1.516 stylus-loader 6.2.0

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1.517 postcss-env-function 4.0.6

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1.519 karma-jasmine-html-reporter 1.7.0

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1.523 @csstools/postcss-progressive-custom-properties 1.3.0

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1.525 css-prefers-color-scheme 6.0.3

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1.535 postcss-color-hex-alpha 8.0.4

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1.537 @jridgewell/source-map 0.3.2

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1.538 colorette 2.0.19

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1.539 brace-expansion 2.0.1

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1.540 @jridgewell/set-array 1.1.2

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1.541 @jridgewell/sourcemap-codec 1.4.14

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1.542 @jridgewell/gen-mapping 0.3.2

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1.544 @babel/helper-annotate-as-pure 7.18.6

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- 1.553 @babel/plugin-transform-unicode-regex 7.18.6**
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- 1.570 @jridgewell/resolve-uri 3.1.0**
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- 1.581 @csstools/selector-specificity 2.0.2**
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- 1.582 @types/serve-static 1.15.0**
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- 1.613 @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining 7.18.9**
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- 1.618 @babel/helper-function-name 7.19.0**
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- 1.619 fast-glob 3.2.12**
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1.624 @babel/helper-validator-identifier 7.19.1
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1.625 follow-redirects 1.15.2
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1.626 @socket.io/component-emitter 3.1.0
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1.627 get-intrinsic 1.1.3
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1.628 unicode-property-aliases-ecmascript 2.1.0
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1.629 @types/mime 3.0.1
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1.630 regenerate-unicode-properties 10.1.0
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1.631 @types/express 4.17.14
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1.633 @babel/helper-replace-supers 7.19.1
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1.634 regjsparser 0.9.1
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1.635 @types/express-serve-static-core 4.17.31
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1.640 minipass-fetch 2.1.2
1.640.1 Available under license

1.641 make-fetch-happen 10.2.1
1.641.1 Available under license

1.642 @npmcli/move-file 2.0.1

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1.643 zone 0.11.8
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1.644 are-we-there-yet 3.0.1
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1.645 update-browserslist-db 1.0.10
1.645.1 Available under license
1.646 convert-source-map 1.9.0
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1.647 istanbul-lib-instrument 5.2.1
1.647.1 Available under license
1.648 engine.io-parser 5.0.4
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1.649 electron-to-chromium 1.4.284
1.649.1 Available under license
1.650 streamroller 3.1.3
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1.651 cli-spinners 2.7.0
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1.652 body-parser 1.20.1
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1.653 defaults 1.0.4
1.653.1 Available under license
1.654 express 4.18.2
1.654.1 Available under license
1.655 node-gyp-build 4.5.0
1.655.1 Available under license
1.656 @babel/helper-string-parser 7.19.4
1.656.1 Available under license
1.657 @jridgewell/trace-mapping 0.3.17
1.657.1 Available under license
1.658 send 0.18.0
1.658.1 Available under license
1.659 buffer v5.7.1
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1.660 nodeca-argparse 1.0.10
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1.661 engine.io 6.2.1
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- 1.662 babel-helper-compilation-targets 7.20.0**
 - 1.662.1 Available under license
- 1.663 @babel/plugin-transform-modules-commonjs 7.19.6**
 - 1.663.1 Available under license
- 1.664 @babel/helper-skip-transparent-expression-wrappers 7.20.0**
 - 1.664.1 Available under license
- 1.665 @babel/plugin-transform-modules-systemjs 7.19.6**
 - 1.665.1 Available under license
- 1.666 @babel/plugin-transform-modules-amd 7.19.6**
 - 1.666.1 Available under license
- 1.667 @babel/helper-wrap-function 7.20.5**
 - 1.667.1 Available under license
- 1.668 @babel/plugin-transform-block-scoping 7.20.5**
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 - 1.671.1 Available under license
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 - 1.672.1 Available under license
- 1.673 @babel/helper-plugin-utils 7.20.2**
 - 1.673.1 Available under license
- 1.674 @babel/plugin-proposal-private-property-in-object 7.20.5**
 - 1.674.1 Available under license
- 1.675 @babel/helper-module-transforms 7.20.2**
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- 1.676 unicode-match-property-value-ecmascript 2.1.0**
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- 1.677 @babel/plugin-transform-regenerator 7.20.5**
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- 1.678 regexpu-core 5.2.2**
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- 1.679 yargs 17.6.2**
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- 1.680 @babel/types 7.20.5**
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- 1.681 @babel/plugin-transform-parameters 7.20.5**

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1.682 enhanced-resolve 5.12.0

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1.683 cliui 8.0.1

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1.684 @babel/generator 7.20.5

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1.685 @babel/plugin-transform-named-capturing-groups-regex 7.20.5

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1.686 @babel/core 7.20.5

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1.687 @babel/helpers 7.20.6

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1.688 @types/eslint 8.4.10

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1.690 babel-helper-create-regexp-features-plugin 7.20.5

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1.691 @babel/compat-data 7.20.5

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1.693 babel-helper-create-class-features-plugin 7.20.5

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1.696 core-js 3.26.1

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1.700 webpack/loader-utils 2.0.4

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1.701 webpack/loader-utils 3.2.1

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1.702 browserify-resolve 1.22.0

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1.703 unique-slug 3.0.0

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1.704 unique-filename 2.0.1

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1.705 node-lru-cache 7.14.1

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1.706 minimpass 3.3.6

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1.708 coverlet.collector 1.2.0

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1.709 decode-uri-component 0.2.2

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1.710 magic-string 0.26.7

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1.711 bytes.js 3.0.0

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1.712 reflect-metadata 0.1.13

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1.717 date-format 4.0.14

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1.718 http-cache-semantics 4.1.0

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1.719 xunit.net-[core-library] 2.4.2

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1.720 xunit.net-[assertion-library] 2.4.2

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1.737 angular-compiler-cli 13.2.7
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1.739 @angular/platform-browser-dynamic 13.2.7
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1.741 jasmine/jasmine 4.0.1

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1.744 angular-devkit-architect 0.1302.6

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1.747 nodelib-fs-walk 1.2.8

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1.748 @types/node 12.20.55

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1.749 autoprefixer 10.4.13

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1.750 minipass-collect 1.0.2

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1.751 moq/moq4 4.18.4

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1.752 regenerator-transform 0.15.1

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1.754 color-name 1.1.3

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1.755 js-yaml 3.14.1

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1.756 @types/parse-json 4.0.0

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1.762 angular-devkit-architect 0.1303.10
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1.765 types-jasmine 3.10.6
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1.767 @ngtools/webpack 13.3.10
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1.768 postcss-custom-properties 12.1.10
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1.769 caniuse-lite 1.0.30001435
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1.771 angular-devkit-build-angular 13.3.10
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1.774 log4js-node 6.7.1
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1.776 humanizer locale (el) 2.14.1
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1.778 humanizer locale (uz-latn-uz) 2.14.1
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1.780 humanizer.core.lv 2.14.1
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1.787 humanizer locale (ja) 2.14.1
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1.791 njsonschema.extensions 0.1.0
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1.792 tinymapper 3.0.3
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1.793 humanizer locale (sv) 2.14.1
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1.794 humanizer locale (ro) 2.14.1
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1.795 humanizer locale (nb-no) 2.14.1
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1.797 non-official extensions for xpath2.dll 1.1.3
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1.806 humanizer locale (ar) 2.14.1
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1.808 humanizer locale (fr-be) 2.14.1
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1.809 [f]inite [a]utomata and [r]egular [e]xpressions 2.2.0
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1.810 microsoft codecoverage 17.4.1
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1.811 wiremock.net.abstractions 1.5.13
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1.812 humanizer locale (he) 2.14.1
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1.813 nullable 1.3.0
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1.814 humanizer locale (es) 2.14.1
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1.815 wiremock.org.abstractions 1.5.13
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1.816 humanizer.core.az 2.14.1
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1.817 humanizer locale (af) 2.14.1
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1.818 humanizer locale (zh-cn) 2.14.1
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1.819 humanizr/humanizer 2.14.1
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1.820 jsonconverter.abstractions 0.3.0
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1.821 humanizer locale (da) 2.14.1
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1.822 njsonschema 10.7.2
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1.823 humanizer.core.ku 2.14.1
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1.824 humanizer locale (id) 2.14.1
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1.825 handlebars.net.helpers.xpath 2.3.11
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1.826 handlebars.net.helpers.core 2.3.11
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1.827 humanizer locale (bg) 2.14.1
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1.829 handlebars.net.helpers.json 2.3.11
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1.830 humanizer locale (cs) 2.14.1
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1.831 humanizer locale (uz-cyrl-uz) 2.14.1
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1.832 humanizer locale (bn-bd) 2.14.1
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1.833 microsoft.testplatform.objectmodel 17.4.1
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1.834 jmespath.net 1.0.125
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1.835 system.threading.tasks.extensions 4.5.0
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1.880 agent-base 6.0.2

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1.894 run-async 2.4.1

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1.896 system.security.cryptography.encoding 4.3.0
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1.897 system.security.cryptography.primitives 4.3.0
1.897.1 Available under license

1.898 system.runtime.interopservices.runtimeinformation 4.3.0
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1.899 system.runtime 4.3.0
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1.900 system.io.compression 4.3.0
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1.901 domhandler 4.3.1
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1.97 to-regexp-range 5.0.1

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1.98 parseurl 1.3.3

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1.100 p-try 2.2.0

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1.101 multicast-dns 6.2.3

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1.103 netroy-image-size 0.5.5

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1.104 chalk 2.4.2

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1.106 utils-merge 1.0.1

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1.107 requires-port 1.0.0

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1.109 dns-equal 1.0.0

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1.110 bonjour 3.5.0

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1.111 unique-filename 1.1.1

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1.112 obuf 1.1.2

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1.113 unique-slug 2.0.2

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1.115 color-support 1.1.3

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1.116 media-typer 0.3.0

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1.117 select-hose 2.0.0

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* /indutny-select-hose-v2-0-0-0-gee7caf9-1-tar-gz/indutny-select-hose-99b34fa/README.md

1.118 finalhandler 1.1.2

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1.119 atob 2.1.2

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1.126 json-schema-traverse 0.4.1

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* /wbuf-1-7-3-4-tgz/package/README.md

1.130 node-chardet v0.7.0

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wewidth.js: JavaScript Portng of Markus Kuhn's wewidth() Implementation

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1.172 resolve-from 5.0.0

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1.177 karma-source-map-support 1.4.0

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1.179 braces 3.0.2

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1.181 readable-stream 3.6.0

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1.182 test-exclude 6.0.0

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1.242 side-channel 1.0.4

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1.243 errno 0.1.8

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1.244 import-fresh 3.3.0

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1.245 cliui v7.0.4

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1.247 parse-json v5.2.0

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1.248 uri-js 4.4.1

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1.249 json-schema-traverse 1.0.0

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1.250 ssri 8.0.1

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1.251 @babel/plugin-syntax-export-namespace-from 7.8.3

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1.252 @babel/plugin-syntax-optional-catch-binding 7.8.3

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1.253 call-bind 1.0.2

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1.254 @babel/plugin-syntax-json-strings 7.8.3

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1.255 json-parse-even-better-errors 2.3.1

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1.256 gensync 1.0.0-beta.2

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1.257 @babel/plugin-syntax-async-generators 7.8.4

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1.258 minipass-pipeline 1.2.4

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1.259 @babel/plugin-syntax-dynamic-import 7.8.3

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1.260 boolbase 1.0.0

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1.261 @babel/plugin-syntax-object-rest-spread 7.8.3

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1.262 @babel/plugin-syntax-class-properties

7.12.13

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1.263 wildcard v2.0.0

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1.264 bl 4.1.0

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1.265 istanbuljs-schema 0.1.3

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1.266 @npmcli/move-file 1.1.2

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1.267 babel-plugin-syntax-nullish-coalescing-operator 7.8.3

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1.268 babel-plugin-syntax-optional-chaining

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1.269 Iodash 4.17.21

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1.277 node-semver 7.3.5

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1.299 circular-dependency-plugin 5.2.2

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1.300 minipass-sized 1.0.3

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1.304 @types/retry 0.12.0

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1.305 path-parse 1.0.7

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1.307 readdirp 3.6.0

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1.308 babel-plugin-syntax-top-level-await

7.14.5

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1.309 detect-node 2.1.0

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1.310 @babel/plugin-syntax-class-static-block 7.14.5

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1.311 dns-packet 1.3.4

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1.312 yargs-parser 20.2.9

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1.318 schema-utils 3.1.1

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1.319 buffer-from 1.1.2

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1.326 felixge-node-retry 0.13.1

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1.327 @webassemblyjs/helper-numbers

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1.329 @types/qs 6.9.7

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1.336 chalk 4.1.2

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1.337 @webassemblyjs/helper-api-error

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1.339 @webassemblyjs/floating-point-hex-parser 1.11.1

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1.340 read-package-json-fast 2.0.3

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1.341 has-tostringtag 1.0.0

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1.342 is-date-object 1.0.5

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1.343 is-regex 1.1.4

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1.344 npmcli-git 2.1.0

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1.345 npm-bundled 1.1.2

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1.346 core-util-is 1.0.3

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1.347 yargs 16.2.0

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1.348 proxy-addr 2.0.7

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1.349 define-lazy-prop 2.0.0

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1.359 forwarded 0.2.0

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<https://github.com/bitinn/node-fetch>

1.374 @npmcli/node-gyp 1.0.3

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1.407 @babel/plugin-transform-async-to-generator 7.16.8

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1.408 babel-plugin-polyfill-regenerator 0.3.1

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1.410 @babel/template 7.16.7

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1.411 @babel/helper-annotate-as-pure 7.16.7

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1.412 node-gyp 8.4.1

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1.413 @babel/plugin-proposal-async-generator-functions 7.16.8

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1.414 core-js 3.20.3

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1.416 source-map-resolve 0.6.0

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1.417 @types/range-parser 1.2.4

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1.418 @types/connect 3.4.35

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1.419 @types/body-parser 1.19.2

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1.420 @types/connect-history-api-fallback

1.3.5

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1.421 @types/serve-index 1.9.1

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1.422 webpack-sources 3.2.3

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1.423 picomatch 2.3.1

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1.424 mini-css-extract-plugin 2.5.3

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1.425 chokidar 3.5.3

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1.426 babel-plugin-transform-runtime 7.16.10

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1.427 @types/sockjs 0.3.33

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1.428 postcss-preset-env 7.2.3

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1.429 webpack-dev-server 4.7.3

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1.430 source-map-loader 3.0.1

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1.431 supports-preserve-symlinks-flag 1.0.0

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1.432 @types/bonjour 3.5.10

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1.433 source-map-js 1.0.2

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1.434 xunit.net-[abstractions] 2.0.3

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1.435 types-estree 0.0.51

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1.436 @gar/promisify 1.1.3

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1.437 signal-exit 3.0.7

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1.438 @babel/preset-env 7.16.11

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1.439 jest-worker 27.5.1

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1.441 sass 1.49.9

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1.445 @npmcli/fs 1.1.1

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1.446 jshttp-mime-types 2.1.35

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1.447 has-symbols 1.0.3

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1.448 types-ws 8.5.3

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1.450 node-graceful-fs 4.2.10

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1.452 socket.io-adapter 2.4.0

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1.453 define-properties 1.1.4

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1.454 functions-have-names 1.2.3

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1.455 ignore-walk 4.0.1

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1.457 types-json-schema 7.0.11

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1.458 iarna-gauge 4.0.4

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1.460 micromatch 4.0.5

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1.462 tomas-needle 2.9.1

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1.479 css-what 6.1.0

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1.482 @types/http-proxy 1.17.9

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1.483 destroy 1.2.0

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1.484 css-select 4.3.0

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1.485 @babel/core 7.16.12

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1.489 hdr-histogram-js 2.0.3

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1.490 webpack-subresource-integrity 5.1.0

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1.491 css-has-pseudo 3.0.4

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1.494 @npmcli/run-script 2.0.0

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1.496 eventemitter-asyncresource 1.0.0

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1.497 types-cors 2.8.12

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1.501 einaros-ws 8.2.3

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1.523 @csstools/postcss-progressive-custom-properties 1.3.0

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1.565 @babel/plugin-bugfix-safari-id-destructuring-collision-in-function-expression 7.18.6

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1.566 @babel/plugin-transform-exponentiation-operator 7.18.6

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1.567 node-releases 2.0.6

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1.568 @babel/plugin-transform-block-scoped-functions 7.18.6

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1.569 @babel/plugin-proposal-unicode-property-regex 7.18.6

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1.570 @jridgewell/resolve-uri 3.1.0

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1.571 @babel/helper-explode-assignable-expression 7.18.6

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1.572 @babel/plugin-transform-modules-umd

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1.573 http-parser-js 0.5.8

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- tests/iojs/test-http-parser-durability.js

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- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utls.py

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1.574 @babel/plugin-transform-new-target

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1.575 @babel/plugin-transform-for-of 7.18.8

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1.576 @babel/plugin-proposal-json-strings

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1.577 babel-plugin-transform-reserved-words

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1.578 babel-plugin-transform-property-literals

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1.579 @babel/plugin-proposal-numeric-separator 7.18.6

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1.580 uuid 8.3.2

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1.581 @csstools/selector-specificity 2.0.2

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1.582 @types/serve-static 1.15.0

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1.583 node-ip 2.0.0

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1.584 @babel/helper-environment-visitor

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1.585 postcss-lab-function 4.2.1

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1.586 postcss-place 7.0.5

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1.587 @babel/plugin-proposal-logical-assignment-operators 7.18.9

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1.588 @babel/helper-member-expression-to-functions 7.18.9

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1.589 @babel/plugin-transform-literals 7.18.9

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1.591 babel-plugin-proposal-optional-chaining 7.18.9

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1.592 @babel/plugin-transform-unicode-escapes 7.18.10

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1.593 @types/eslint-scope 3.7.4

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1.594 postcss-color-rebeccapurple 7.1.1

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1.595 @babel/plugin-transform-typeof-symbol 7.18.9

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1.596 terser 5.14.2

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1.600 postcss-gap-properties 3.0.5

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1.601 postcss-image-set-function 4.0.7

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1.602 watchpack 2.4.0

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1.603 postcss-double-position-gradients 3.1.2

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1.604 @babel/plugin-transform-template-literals 7.18.9

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1.605 @babel/helper-builder-binary-assignment-operator-visitor 7.18.9

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1.606 postcss-pseudo-class-any-link 7.1.6

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1.607 postcss-dir-pseudo-class 6.0.5

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1.608 @babel/plugin-proposal-export-namespace-from 7.18.9

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1.609 @babel/template 7.18.10

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1.610 postcss-overflow-shorthand 3.0.4

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1.611 postcss-color-functional-notation 4.2.4

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1.612 istanbul-reports 3.1.5

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1.613 @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining 7.18.9

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1.614 samccone/chrome-trace-event 1.0.3

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1.615 babel-plugin-polyfill-corejs3 0.5.3

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1.616 portfinder 1.0.32

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1.617 yargs-parser 21.1.1

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1.618 @babel/helper-function-name 7.19.0

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1.619 fast-glob 3.2.12

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1.620 @babel/helper-define-polyfill-provider

0.3.3

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1.621 postcss-nesting 10.2.0

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1.622 babel-plugin-polyfill-corejs2 0.3.3

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1.623 @babel/plugin-transform-spread 7.19.0

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1.624 @babel/helper-validator-identifier 7.19.1

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1.625 follow-redirects 1.15.2

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1.626 @socket.io/component-emitter 3.1.0

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1.632 browserslist 4.21.4

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1.634 regjsparser 0.9.1

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1.635 @types/express-serve-static-core

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1.636 terser-webpack-plugin 5.3.6

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1.639 @npmcli/fs 2.1.2

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<https://github.com/bitinn/node-fetch>

1.641 make-fetch-happen 10.2.1

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1.642 @npmcli/move-file 2.0.1

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1.643 zone 0.11.8

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1.644 are-we-there-yet 3.0.1

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1.645 update-browserslist-db 1.0.10

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1.647 istanbul-lib-instrument 5.2.1

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1.648 engine.io-parser 5.0.4

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1.649 electron-to-chromium 1.4.284

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1.650 streamroller 3.1.3

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1.651 cli-spinners 2.7.0

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1.652 body-parser 1.20.1

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1.655 node-gyp-build 4.5.0

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1.656 @babel/helper-string-parser 7.19.4

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1.657 @jridgewell/trace-mapping 0.3.17

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1.663 @babel/plugin-transform-modules-commonjs 7.19.6

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1.664 @babel/helper-skip-transparent-expression-wrappers 7.20.0

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1.665 @babel/plugin-transform-modules-systemjs 7.19.6

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1.666 @babel/plugin-transform-modules-amd

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1.667 @babel/helper-wrap-function 7.20.5

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1.668 @babel/plugin-transform-block-scoping 7.20.5

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1.669 @babel/helper-simple-access 7.20.2

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1.671 @babel/plugin-transform-destructuring 7.20.2

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1.672 @babel/plugin-transform-classes 7.20.2

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1.673 @babel/helper-plugin-utils 7.20.2

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1.674 @babel/plugin-proposal-private-property-in-object 7.20.5

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1.675 @babel/helper-module-transforms

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1.676 unicode-match-property-value-ecmascript 2.1.0

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1.677 @babel/plugin-transform-regenerator

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1.678 regexpu-core 5.2.2

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1.679 yargs 17.6.2

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1.680 @babel/types 7.20.5

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1.681 @babel/plugin-transform-parameters 7.20.5

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1.682 enhanced-resolve 5.12.0

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1.683 cliui 8.0.1

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1.685 @babel/plugin-transform-named-capturing-groups-regex 7.20.5

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1.689 @babel/plugin-proposal-object-rest-spread 7.20.2

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1.690 babel-helper-create-regexp-features-plugin 7.20.5

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1.692 cosmiconfig 7.1.0

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1.694 anymatch 3.1.3

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1.723 xunit-analyzers 1.0.0

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1.724 xunit.net 2.4.2

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1.725 minimist 1.2.7

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1.726 npm-pick-manifest 6.1.1

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1.728 y18n 5.0.8

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*
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* /common-13-2-7-tgz/package/locales/fr-DZ.d.ts
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* /common-13-2-7-tgz/package/locales/extra/dje.mjs
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* /common-13-2-7-tgz/package/locales/extra/ff-Latn-BF.d.ts
* /common-13-2-7-tgz/package/locales/extra/en.d.ts
* /common-13-2-7-tgz/package/locales/shi-Latn.mjs
* /common-13-2-7-tgz/package/locales/extra/so-DJ.mjs
* /common-13-2-7-tgz/package/locales/ses.mjs
* /common-13-2-7-tgz/package/locales/sv-AX.d.ts
* /common-13-2-7-tgz/package/locales/extra/ar-JO.d.ts
* /common-13-2-7-tgz/package/locales/fr-GF.d.ts
*
```

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/common-13-2-7-tgz/package/locales/mas.mjs
* /common-13-2-7-tgz/package/locales/en-DM.mjs
* /common-13-2-7-tgz/package/locales/extra/ps-PK.d.ts
* /common-13-2-7-tgz/package/locales/ms-ID.mjs
* /common-13-2-7-tgz/package/locales/ar-LB.mjs
* /common-13-2-7-tgz/package/locales/ar.d.ts
* /common-13-2-7-tgz/package/locales/en-AI.d.ts
* /common-13-2-7-tgz/package/locales/global/lu.js
* /common-13-2-7-tgz/package/locales/en-GY.d.ts
* /common-13-2-7-tgz/package/locales/as.d.ts
* /common-13-2-7-tgz/package/locales/global/en-CX.js
* /common-13-2-7-tgz/package/locales/ru.d.ts
* /common-13-2-7-tgz/package/locales/seh.mjs
* /common-13-2-7-tgz/package/locales/wae.d.ts
* /common-13-2-7-tgz/package/locales/global/uz-Arab.js
* /common-13-2-7-tgz/package/locales/extra/fr-KM.d.ts
* /common-13-2-7-tgz/package/locales/extra/pt-ST.d.ts
* /common-13-2-7-tgz/package/locales/extra/ta.mjs
* /common-13-2-7-tgz/package/locales/ro-MD.mjs
* /common-13-2-7-tgz/package/locales/tr.d.ts
* /common-13-2-7-tgz/package/locales/en-MS.mjs
*
/common-13-2-7-tgz/package/locales/extra/fr-RE.mjs
* /common-13-2-7-tgz/package/locales/extra/nl-SX.mjs
* /common-13-2-7-tgz/package/locales/extra/sw.d.ts
* /common-13-2-7-tgz/package/locales/es-419.mjs
* /common-13-2-7-tgz/package/locales/extra/id.d.ts
* /common-13-2-7-tgz/package/locales/extra/az-Cyrl.mjs
* /common-13-2-7-tgz/package/locales/extra/gsw-LI.mjs
* /common-13-2-7-tgz/package/locales/global/sw-KE.js
* /common-13-2-7-tgz/package/locales/en-SZ.d.ts
* /common-13-2-7-tgz/package/locales/global/es.js
* /common-13-2-7-tgz/package/locales/global/nl-CW.js
* /common-13-2-7-tgz/package/locales/global/se.js
* /common-13-2-7-tgz/package/locales/extra/fr-MR.mjs
* /common-13-2-7-tgz/package/locales/sq-XK.d.ts
* /common-13-2-7-tgz/package/locales/es-PR.d.ts
* /common-13-2-7-tgz/package/locales/extra/en-VI.mjs
* /common-13-2-7-tgz/package/locales/kkj.mjs
* /common-13-2-7-tgz/package/locales/extra/shi-Latn.d.ts
* /common-13-2-7-tgz/package/locales/extra/en-SZ.d.ts
*
/common-13-2-7-tgz/package/locales/es-419.d.ts
* /common-13-2-7-tgz/package/locales/global/nds.js
* /common-13-2-7-tgz/package/locales/global/bas.js
* /common-13-2-7-tgz/package/locales/extra/nl-SR.d.ts
* /common-13-2-7-tgz/package/locales/ru-UA.d.ts
* /common-13-2-7-tgz/package/locales/es-PE.d.ts

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- * /common-13-2-7-tgz/package/locales/extra/fr-CA.d.ts
- * /common-13-2-7-tgz/package/locales/global/my.js
- * /common-13-2-7-tgz/package/locales/extra/kw.d.ts
- * /common-13-2-7-tgz/package/locales/global/doi.js
- * /common-13-2-7-tgz/package/locales/es-PH.d.ts
- * /common-13-2-7-tgz/package/locales/extra/wae.d.ts
- * /common-13-2-7-tgz/package/locales/extra/qu.mjs
- * /common-13-2-7-tgz/package/locales/vai-Latn.d.ts
- * /common-13-2-7-tgz/package/locales/extra/my.mjs
- * /common-13-2-7-tgz/package/locales/extra/ru-KG.mjs
- * /common-13-2-7-tgz/package/locales/extra/nnh.mjs
- * /common-13-2-7-tgz/package/locales/global/dav.js
- * /common-13-2-7-tgz/package/locales/ar-TD.d.ts
- * /common-13-2-7-tgz/package/locales/en-BM.mjs
- *
- /common-13-2-7-tgz/package/locales/extra/en-TV.d.ts
- * /common-13-2-7-tgz/package/locales/global/fo-DK.js
- * /common-13-2-7-tgz/package/locales/lag.mjs
- * /common-13-2-7-tgz/package/locales/ee-TG.mjs
- * /common-13-2-7-tgz/package/locales/mni-Beng.d.ts
- * /common-13-2-7-tgz/package/locales/en-DE.d.ts
- * /common-13-2-7-tgz/package/locales/extra/sq.mjs
- * /common-13-2-7-tgz/package/locales/extra/th.mjs
- * /common-13-2-7-tgz/package/locales/de-AT.mjs
- * /common-13-2-7-tgz/package/locales/ku.mjs
- * /common-13-2-7-tgz/package/esm2020/src/dom_adapter.mjs
- * /common-13-2-7-tgz/package/locales/extra/ku.mjs
- * /common-13-2-7-tgz/package/locales/global/ar-JO.js
- * /common-13-2-7-tgz/package/locales/es-AR.d.ts
- * /common-13-2-7-tgz/package/locales/extra/en-NZ.d.ts
- * /common-13-2-7-tgz/package/locales/extra/it-SM.d.ts
- * /common-13-2-7-tgz/package/locales/extra/fy.d.ts
- * /common-13-2-7-tgz/package/locales/extra/to.mjs
- * /common-13-2-7-tgz/package/locales/global/zh-Hant-MO.js
- * /common-13-2-7-tgz/package/locales/es-PR.mjs
- *
- /common-13-2-7-tgz/package/locales/extra/nl.d.ts
- * /common-13-2-7-tgz/package/locales/extra/pt-MZ.d.ts
- * /common-13-2-7-tgz/package/locales/extra/en-KI.d.ts
- * /common-13-2-7-tgz/package/locales/ca-IT.mjs
- * /common-13-2-7-tgz/package/locales/global/bo.js
- * /common-13-2-7-tgz/package/locales/extra/fr-GF.d.ts
- * /common-13-2-7-tgz/package/locales/pa.mjs
- * /common-13-2-7-tgz/package/locales/extra/zh-Hant-HK.mjs
- * /common-13-2-7-tgz/package/locales/kea.d.ts
- * /common-13-2-7-tgz/package/locales/global/de-BE.js
- * /common-13-2-7-tgz/package/locales/global/kkj.js
- * /common-13-2-7-tgz/package/locales/extra/es-UY.d.ts

- * /common-13-2-7-tgz/package/locales/hu.mjs
- * /common-13-2-7-tgz/package/locales/el-CY.d.ts
- * /common-13-2-7-tgz/package/locales/global/tr.js
- * /common-13-2-7-tgz/package/locales/global/sv.js
- * /common-13-2-7-tgz/package/locales/it.d.ts
- * /common-13-2-7-tgz/package/locales/rm.d.ts
- * /common-13-2-7-tgz/package/locales/en-UM.mjs
- * /common-13-2-7-tgz/package/locales/ar-TD.mjs
- *
- /common-13-2-7-tgz/package/locales/global/ar-LY.js
- * /common-13-2-7-tgz/package/locales/es-NI.d.ts
- * /common-13-2-7-tgz/package/locales/extra/es-IC.mjs
- * /common-13-2-7-tgz/package/locales/fr-BE.d.ts
- * /common-13-2-7-tgz/package/locales/fr-MA.mjs
- * /common-13-2-7-tgz/package/locales/extra/en-GY.d.ts
- * /common-13-2-7-tgz/package/locales/global/en-NA.js
- * /common-13-2-7-tgz/package/locales/extra/en-SD.d.ts
- * /common-13-2-7-tgz/package/locales/pa.d.ts
- * /common-13-2-7-tgz/package/locales/extra/ii.mjs
- * /common-13-2-7-tgz/package/locales/global/en-CK.js
- * /common-13-2-7-tgz/package/locales/extra/ckb-IR.mjs
- * /common-13-2-7-tgz/package/locales/extra/es-AR.d.ts
- * /common-13-2-7-tgz/package/locales/tzm.mjs
- * /common-13-2-7-tgz/package/locales/extra/nl-SX.d.ts
- * /common-13-2-7-tgz/package/locales/en-ZW.d.ts
- * /common-13-2-7-tgz/package/locales/extra/sv-FI.mjs
- * /common-13-2-7-tgz/package/locales/extra/mgh.d.ts
- * /common-13-2-7-tgz/package/locales/extra/hi.d.ts
- * /common-13-2-7-tgz/package/locales/extra/it-VA.d.ts
- *
- /common-13-2-7-tgz/package/locales/global/pt-GQ.js
- * /common-13-2-7-tgz/package/locales/extra/en-UG.mjs
- * /common-13-2-7-tgz/package/locales/ff-Latn-MR.d.ts
- * /common-13-2-7-tgz/package/locales/extra/fr-SN.d.ts
- * /common-13-2-7-tgz/package/locales/smn.mjs
- * /common-13-2-7-tgz/package/locales/nmg.d.ts
- * /common-13-2-7-tgz/package/esm2020/src/viewport_scroller.mjs
- * /common-13-2-7-tgz/package/locales/fil.mjs
- * /common-13-2-7-tgz/package/locales/extra/ff-Latn-GH.d.ts
- * /common-13-2-7-tgz/package/locales/global/ff-Adlm-NE.js
- * /common-13-2-7-tgz/package/locales/es-BR.d.ts
- * /common-13-2-7-tgz/package/locales/su-Latn.d.ts
- * /common-13-2-7-tgz/package/locales/extra/km.d.ts
- * /common-13-2-7-tgz/package/locales/es-PE.mjs
- * /common-13-2-7-tgz/package/locales/extra/nb-SJ.d.ts
- * /common-13-2-7-tgz/package/locales/global/ar-IL.js
- * /common-13-2-7-tgz/package/locales/extra/bs-Cyrl.mjs
- * /common-13-2-7-tgz/package/locales/ff-Adlm-CM.mjs

- * /common-13-2-7-tgz/package/locales/extra/khq.d.ts
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- /common-13-2-7-tgz/package/locales/pt.d.ts
- * /common-13-2-7-tgz/package/locales/extra/kab.mjs
- * /common-13-2-7-tgz/package/locales/global/sq-MK.js
- * /common-13-2-7-tgz/package/locales/en-SE.d.ts
- * /common-13-2-7-tgz/package/locales/fr-MU.mjs
- * /common-13-2-7-tgz/package/locales/global/en-SD.js
- * /common-13-2-7-tgz/package/locales/en-PN.d.ts
- * /common-13-2-7-tgz/package/locales/extra/es-EC.mjs
- * /common-13-2-7-tgz/package/locales/cs.d.ts
- * /common-13-2-7-tgz/package/locales/extra/twq.d.ts
- * /common-13-2-7-tgz/package/locales/extra/ar-SS.mjs
- * /common-13-2-7-tgz/package/locales/yo.mjs
- * /common-13-2-7-tgz/package/locales/af-NA.d.ts
- * /common-13-2-7-tgz/package/locales/global/en-DK.js
- * /common-13-2-7-tgz/package/locales/dav.mjs
- * /common-13-2-7-tgz/package/locales/nl.d.ts
- * /common-13-2-7-tgz/package/locales/en-FI.d.ts
- * /common-13-2-7-tgz/package/locales/extra/en-NA.d.ts
- * /common-13-2-7-tgz/package/locales/global/fr-MU.js
- * /common-13-2-7-tgz/package/locales/en-MG.d.ts
- *
- /common-13-2-7-tgz/package/locales/global/shi-Latn.js
- * /common-13-2-7-tgz/package/locales/global/fr-BI.js
- * /common-13-2-7-tgz/package/locales/saq.mjs
- * /common-13-2-7-tgz/package/locales/eu.d.ts
- * /common-13-2-7-tgz/package/esm2020/http/src/backend.mjs
- * /common-13-2-7-tgz/package/locales/pt-LU.d.ts
- * /common-13-2-7-tgz/package/locales/extra/es-DO.d.ts
- * /common-13-2-7-tgz/package/locales/ar-AE.d.ts
- * /common-13-2-7-tgz/package/locales/wo.d.ts
- * /common-13-2-7-tgz/package/locales/extra/ff-Adlm-NG.mjs
- * /common-13-2-7-tgz/package/locales/global/ms-SG.js
- * /common-13-2-7-tgz/package/locales/extra/en-ZA.d.ts
- * /common-13-2-7-tgz/package/locales/ms-BN.mjs
- * /common-13-2-7-tgz/package/locales/ckb-IR.d.ts
- * /common-13-2-7-tgz/package/locales/global/en-CY.js
- * /common-13-2-7-tgz/package/locales/asa.d.ts
- * /common-13-2-7-tgz/package/locales/extra/fr-ML.mjs
- * /common-13-2-7-tgz/package/locales/extra/sn.mjs
- * /common-13-2-7-tgz/package/locales/extra/en-IM.d.ts
- * /common-13-2-7-tgz/package/locales/global/ky.js
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- /common-13-2-7-tgz/package/locales/pt-TL.mjs
- * /common-13-2-7-tgz/package/locales/global/en-KI.js
- * /common-13-2-7-tgz/package/locales/en-NL.d.ts
- * /common-13-2-7-tgz/package/locales/en-IE.d.ts

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- * /common-13-2-7-tgz/package/locales/af.mjs
- * /common-13-2-7-tgz/package/locales/extra/lt.mjs
- * /common-13-2-7-tgz/package/locales/extra/en-KN.mjs
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- * /common-13-2-7-tgz/package/locales/es-PA.d.ts
- * /common-13-2-7-tgz/package/locales/cy.mjs
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- * /common-13-2-7-tgz/package/locales/global/ses.js
- * /common-13-2-7-tgz/package/locales/ar-KM.d.ts
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- * /common-13-2-7-tgz/package/locales/am.mjs
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- /common-13-2-7-tgz/package/locales/extra/mzn.mjs
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- * /common-13-2-7-tgz/package/locales/extra/ff-GN.mjs
- * /common-13-2-7-tgz/package/locales/extra/pt-CV.d.ts
- * /common-13-2-7-tgz/package/esm2020/src/pipes/date_pipe.mjs
- * /common-13-2-7-tgz/package/locales/extra/en-VI.d.ts
- * /common-13-2-7-tgz/package/locales/global/fr-MC.js
- * /common-13-2-7-tgz/package/locales/ar-SY.d.ts
- * /common-13-2-7-tgz/package/locales/extra/fr-TG.d.ts
- * /common-13-2-7-tgz/package/locales/fr-SC.mjs
- * /common-13-2-7-tgz/package/esm2020/src/private_export.mjs
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- * /common-13-2-7-tgz/package/locales/fr-BI.mjs
- * /common-13-2-7-tgz/package/locales/global/pt-MO.js
- * /common-13-2-7-tgz/package/locales/ki.d.ts
- * /common-13-2-7-tgz/package/locales/en-MT.mjs
- * /common-13-2-7-tgz/package/locales/extra/tt.mjs
- * /common-13-2-7-tgz/package/locales/extra/cgg.d.ts
- * /common-13-2-7-tgz/package/locales/global/ccp-IN.js
- *
- /common-13-2-7-tgz/package/locales/global/es-IC.js
- * /common-13-2-7-tgz/package/locales/extra/no.d.ts
- * /common-13-2-7-tgz/package/locales/extra/qu-EC.mjs
- * /common-13-2-7-tgz/package/locales/extra/ff-Adlm-GM.d.ts
- * /common-13-2-7-tgz/package/locales/global/it-VA.js
- * /common-13-2-7-tgz/package/locales/global/su.js
- * /common-13-2-7-tgz/package/locales/extra/kam.d.ts
- * /common-13-2-7-tgz/package/locales/global/fr-DZ.js
- * /common-13-2-7-tgz/package/locales/global/it-CH.js
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- * /common-13-2-7-tgz/package/locales/extra/eu.d.ts

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- * /common-13-2-7-tgz/package/locales/extra/saq.d.ts
- * /common-13-2-7-tgz/package/locales/extra/fr-MC.mjs
- * /common-13-2-7-tgz/package/locales/ff-Latn-GW.d.ts
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- * /common-13-2-7-tgz/package/locales/tg.mjs
- * /common-13-2-7-tgz/package/locales/global/fr-BF.js
- * /common-13-2-7-tgz/package/locales/extra/zh-Hans-MO.mjs
- * /common-13-2-7-tgz/package/locales/extra/kea.mjs
- * /common-13-2-7-tgz/package/locales/doi.d.ts
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- * /common-13-2-7-tgz/package/esm2020/http/public_api.mjs
- * /common-13-2-7-tgz/package/locales/global/fr-TG.js
- * /common-13-2-7-tgz/package/locales/extra/br.d.ts
- * /common-13-2-7-tgz/package/locales/extra/ar-DZ.d.ts
- * /common-13-2-7-tgz/package/locales/global/nb-SJ.js
- * /common-13-2-7-tgz/package/locales/su-Latn.mjs
- * /common-13-2-7-tgz/package/locales/extra/mas-TZ.d.ts
- * /common-13-2-7-tgz/package/locales/ms.mjs
- * /common-13-2-7-tgz/package/locales/extra/es-CO.mjs
- * /common-13-2-7-tgz/package/locales/de-LI.d.ts
- * /common-13-2-7-tgz/package/locales/extra/es-BO.d.ts
- * /common-13-2-7-tgz/package/locales/extra/es-PH.mjs
- * /common-13-2-7-tgz/package/locales/extra/sr-Cyrl.mjs
- *
- /common-13-2-7-tgz/package/locales/fr-CA.d.ts
- * /common-13-2-7-tgz/package/locales/extra/ti-ER.mjs
- * /common-13-2-7-tgz/package/locales/en-MP.d.ts
- * /common-13-2-7-tgz/package/locales/extra/en-MY.d.ts
- * /common-13-2-7-tgz/package/locales/extra/fr-BJ.d.ts
- * /common-13-2-7-tgz/package/locales/fr-GA.mjs
- * /common-13-2-7-tgz/package/locales/fr-GP.d.ts
- * /common-13-2-7-tgz/package/locales/extra/ig.mjs
- * /common-13-2-7-tgz/package/locales/sr-Cyrl.d.ts
- * /common-13-2-7-tgz/package/locales/extra/dsb.mjs
- * /common-13-2-7-tgz/package/locales/fur.d.ts
- * /common-13-2-7-tgz/package/locales/pa-Arab.mjs
- * /common-13-2-7-tgz/package/locales/extra/ig.d.ts
- * /common-13-2-7-tgz/package/locales/ta-MY.d.ts
- * /common-13-2-7-tgz/package/esm2020/src/version.mjs
- * /common-13-2-7-tgz/package/locales/global/en-AT.js
- * /common-13-2-7-tgz/package/locales/global/ckb.js
- * /common-13-2-7-tgz/package/locales/global/ta.js

- * /common-13-2-7-tgz/package/locales/extra/so.d.ts
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- * /common-13-2-7-tgz/package/locales/global/en-BS.js
- * /common-13-2-7-tgz/package/locales/extra/es-EA.mjs
- * /common-13-2-7-tgz/package/locales/extra/shi-Tfng.d.ts
- * /common-13-2-7-tgz/package/locales/yo-BJ.mjs
- * /common-13-2-7-tgz/package/locales/en-FK.mjs
- * /common-13-2-7-tgz/package/locales/global/bm.js
- * /common-13-2-7-tgz/package/locales/extra/zh-Hant.mjs
- * /common-13-2-7-tgz/package/locales/extra/sah.d.ts
- * /common-13-2-7-tgz/package/locales/extra/en-BS.mjs
- * /common-13-2-7-tgz/package/locales/global/en-PW.js
- * /common-13-2-7-tgz/package/locales/global/en-VU.js
- * /common-13-2-7-tgz/package/locales/extra/sat-Olck.mjs
- * /common-13-2-7-tgz/package/locales/extra/ff-Adlm.mjs
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- * /common-13-2-7-tgz/package/locales/ff-Latn.d.ts
- * /common-13-2-7-tgz/package/locales/global/zh-Hans-SG.js
- * /common-13-2-7-tgz/package/locales/extra/en-IE.d.ts
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- * /common-13-2-7-tgz/package/locales/extra/ar-SS.d.ts
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- * /common-13-2-7-tgz/package/locales/extra/kde.d.ts
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* /common-13-2-7-tgz/package/locales/extra/ar-KW.mjs
* /common-13-2-7-tgz/package/locales/extra/es-CL.d.ts
* /common-13-2-7-tgz/package/locales/global/en-KY.js
* /common-13-2-7-tgz/package/locales/ast.d.ts
* /common-13-2-7-tgz/package/locales/fr-MR.d.ts
* /common-13-2-7-tgz/package/locales/extra/xog.mjs
* /common-13-2-7-tgz/package/esm2020/src/pipes/case_conversion_pipes.mjs
* /common-13-2-7-tgz/package/locales/global/af-NA.js
* /common-13-2-7-tgz/package/locales/global/ar-YE.js
* /common-13-2-7-tgz/package/locales/global/ha-GH.js
* /common-13-2-7-tgz/package/locales/sq-MK.mjs
* /common-13-2-7-tgz/package/locales/extra/en-CA.mjs
* /common-13-2-7-tgz/package/locales/extra/ar-QA.d.ts
* /common-13-2-7-tgz/package/locales/om.mjs
* /common-13-2-7-tgz/package/locales/ff-Latn-GM.d.ts
* /common-13-2-7-tgz/package/locales/extra/hr-BA.mjs
* /common-13-2-7-tgz/package/locales/en-SB.d.ts
* /common-13-2-7-tgz/package/locales/global/seh.js
*
/common-13-2-7-tgz/package/locales/extra/en-JM.d.ts
* /common-13-2-7-tgz/package/locales/su.mjs
* /common-13-2-7-tgz/package/locales/extra/xh.d.ts
* /common-13-2-7-tgz/package/locales/sa.d.ts
* /common-13-2-7-tgz/package/locales/fr-NC.mjs
* /common-13-2-7-tgz/package/locales/ses.d.ts
* /common-13-2-7-tgz/package/locales/en-GH.mjs

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- * /common-13-2-7-tgz/package/locales/global/ee.js
- * /common-13-2-7-tgz/package/locales/global/lrc-IQ.js
- * /common-13-2-7-tgz/package/locales/de-CH.d.ts
- * /common-13-2-7-tgz/package/locales/be.d.ts
- * /common-13-2-7-tgz/package/locales/ff-Adlm-SL.d.ts
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- * /common-13-2-7-tgz/package/locales/fr-GF.mjs
- * /common-13-2-7-tgz/package/locales/extra/en-AU.mjs
- * /common-13-2-7-tgz/package/locales/pt-PT.mjs
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- * /common-13-2-7-tgz/package/locales/extra/pt-LU.mjs
- * /common-13-2-7-tgz/package/locales/en-SI.mjs
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- * /common-13-2-7-tgz/package/locales/fr-BF.mjs
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- * /common-13-2-7-tgz/package/locales/es-GQ.d.ts
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- * /common-13-2-7-tgz/package/locales/extra/ko.mjs
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- * /common-13-2-7-tgz/package/locales/extra/pa-Arab.d.ts
- * /common-13-2-7-tgz/package/locales/extra/hr.d.ts
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- * /common-13-2-7-tgz/package/locales/extra/br.mjs
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- * /common-13-2-7-tgz/package/locales/bo.d.ts
- * /common-13-2-7-tgz/package/locales/extra/yue-Hant.mjs
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- * /common-13-2-7-tgz/package/locales/extra/en-BZ.mjs
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No license file was found, but licenses were detected in source scan.

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* @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an
MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n *\n\nlet _DOM: DomAdapter = null!;\n\nexport function
getDOM(): DomAdapter {\n return _DOM;\n}\n\nexport function setDOM(adapter: DomAdapter) {\n _DOM =
adapter;\n}\n\nexport function setRootDomAdapter(adapter: DomAdapter) {\n if (!_DOM) {\n _DOM =
adapter;\n }\n}\n\n/* tslint:disable:requireParameterType */\n\n * Provides DOM operations in an environment-
agnostic way.\n *\n * @security Tread carefully! Interacting with the DOM directly is dangerous and\n * can
introduce XSS risks.\n *\n\nexport abstract class DomAdapter {\n // Needs Domino-friendly test utility\n abstract
dispatchEvent(el: any, evt: any): any;\n abstract readonly supportsDOMEvents: boolean;\n\n // Used by Meta\n
abstract remove(el: any): void;\n abstract createElement(tagName: any, doc?: any): HTMLElement;\n abstract
createHtmlDocument(): HTMLDocument;\n abstract getDefaultDocument(): Document;\n\n // Used by By.css\n
abstract isElementNode(node:

```

any): boolean;\n\n // Used by Testability\n abstract isShadowRoot(node: any): boolean;\n\n // Used by KeyEventsPlugin\n abstract onCancel(el: any, evt: any, listener: any): Function;\n\n // Used by PlatformLocation and ServerEventManagerPlugin\n abstract getGlobalEventTarget(doc: Document, target: string): any;\n\n // Used by PlatformLocation\n abstract getBaseHref(doc: Document): string|null;\n\n abstract resetBaseElement(): void;\n\n // TODO: remove dependency in DefaultValueAccessor\n abstract getUserAgent(): string;\n\n // Used in the legacy @angular/http package which has some usage in g3.\n\n abstract getCookie(name: string): string|null;\n\n }\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport { InjectionToken } from '@angular/core';\n\n/*\n * A DI Token representing the main rendering context. In a browser this is the DOM Document.\n * Note: Document might not be available in the Application Context when Application and Rendering Contexts are not the same (e.g. when running the application in a Web Worker).\n */\n @publicApi\n * export const DOCUMENT = new InjectionToken<Document>('DocumentToken');\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport { Inject, Injectable, InjectionToken, inject } from '@angular/core';\nimport { getDOM } from '../dom_adapter';\nimport { DOCUMENT } from '../dom_tokens';\n\n/*\n * This class should not be used directly by an application developer. Instead, use\n * {@link Location}.\n * `PlatformLocation` encapsulates all calls to DOM APIs, which allows the Router to be\n * platform-agnostic.\n * This means that we can have different implementation of `PlatformLocation` for the different\n * platforms that Angular supports. For example, `@angular/platform-browser` provides an\n * implementation specific to the browser environment, while `@angular/platform-server` provides\n * one suitable for use with server-side rendering.\n * The `PlatformLocation` class is used directly by all implementations of\n * {@link LocationStrategy}\n * when they need to interact with the DOM APIs like pushState, popState, etc.\n * {\n * @link LocationStrategy\n * } in turn is used by the {\n * @link Location\n * } service which is used directly\n * by the {\n * @link Router\n * } in order to navigate between routes. Since all interactions between {\n * @link\n * Router\n * } /\n * {\n * @link Location\n * } / {\n * @link LocationStrategy\n * } and DOM APIs flow through the `PlatformLocation`\n * class, they are all platform-agnostic.\n */\n @publicApi\n * export @Injectable({\n * providedIn: 'platform',\n * // See #23917\n * useFactory: useBrowserPlatformLocation\n * })\n * export abstract class PlatformLocation {\n * abstract getBaseHrefFromDOM(): string;\n * abstract getState(): unknown;\n * /*\n * Returns a function that, when executed, removes the `popstate` event handler.\n */\n * @abstract\n * onPopState(fn: LocationChangeListener): VoidFunction;\n * /*\n * Returns a function that, when executed, removes the `hashchange` event handler.\n */\n * @abstract\n * onHashChange(fn: LocationChangeListener): VoidFunction;\n\n * abstract get href(): string;\n * abstract get protocol(): string;\n * abstract get hostname(): string;\n * abstract get port(): string;\n * abstract get pathname(): string;\n * abstract get search(): string;\n * abstract get hash(): string;\n\n * abstract replaceState(state: any, title: string, url: string): void;\n\n * abstract pushState(state: any, title: string, url: string): void;\n\n * abstract forward(): void;\n\n * abstract back(): void;\n\n * historyGo?(relativePosition: number): void {\n * throw new Error('Not implemented');\n * }\n\n * export function useBrowserPlatformLocation() {\n * return inject(BrowserPlatformLocation);\n * }\n\n * /*\n * Indicates when a location is initialized.\n */\n * @publicApi\n * export const LOCATION_INITIALIZED = new InjectionToken<Promise<any>>('Location Initialized');\n\n * /*\n * A serializable version of the event from `onPopState` or `onHashChange`\n */\n * @publicApi\n * export interface LocationChangeEvent {\n * type: string;\n * state: any;\n * }\n\n * /*\n * A serializable version of the event from `onPopState` or `onHashChange`\n */\n * @publicApi\n * export interface LocationChangeListener {\n * (event: LocationChangeEvent): any;\n * }\n\n * /*\n * `PlatformLocation` encapsulates all of the direct calls to platform APIs.\n * This class should not be used directly by an application developer. Instead, use\n * {\n * @link Location\n * }.\n */\n * @Injectable({\n * providedIn: 'platform',\n * // See #23917\n * useFactory: createBrowserPlatformLocation,\n * })\n * export class BrowserPlatformLocation extends PlatformLocation {\n * public readonly location!: Location;\n * private _history!: History;\n\n * constructor(@Inject(DOCUMENT)

```

private _doc: any) {\n  super();\n  this._init();\n } \n\n // This is moved to its own method so that
`MockPlatformLocationStrategy` can overwrite it\n /** @internal */\n _init() {\n  (this as {location:
Location}).location = window.location;\n  this._history = window.history;\n } \n\n override
getBaseHrefFromDOM(): string {\n  return getDOM().getBaseHref(this._doc);\n } \n\n override onPopState(fn:
LocationChangeListener): VoidFunction {\n  const window = getDOM().getGlobalEventTarget(this._doc,
'window');\n  window.addEventListener('popstate', fn, false);\n  return () =>
window.removeEventListener('popstate', fn);\n } \n\n override onHashChange(fn: LocationChangeListener):
VoidFunction {\n  const window = getDOM().getGlobalEventTarget(this._doc, 'window');\n
window.addEventListener('hashchange', fn, false);\n  return () => window.removeEventListener('hashchange',
fn);\n } \n\n override get href(): string {\n  return this.location.href;\n } \n\n override
get protocol(): string {\n  return this.location.protocol;\n } \n\n override get hostname(): string {\n  return
this.location.hostname;\n } \n\n override get port(): string {\n  return this.location.port;\n } \n\n override get
pathname(): string {\n  return this.location.pathname;\n } \n\n override get search(): string {\n  return
this.location.search;\n } \n\n override get hash(): string {\n  return this.location.hash;\n } \n\n override set
pathname(newPath: string) {\n  this.location.pathname = newPath;\n } \n\n override pushState(state: any, title:
string, url: string): void {\n  if (supportsState()) {\n    this._history.pushState(state, title, url);\n  } else {\n
this.location.hash = url;\n  } \n } \n\n override replaceState(state: any, title: string, url: string): void {\n  if
(supportsState()) {\n    this._history.replaceState(state, title, url);\n  } else {\n    this.location.hash = url;\n  } \n
} \n\n override forward(): void {\n  this._history.forward();\n } \n\n override back(): void {\n  this._history.back();\n } \n\n override historyGo(relativePosition: number = 0):
void {\n  this._history.go(relativePosition);\n } \n\n override getState(): unknown {\n  return this._history.state;\n
} \n } \n\n\nexport function supportsState(): boolean {\n  return !!window.history.pushState;\n } \n\nexport function
createBrowserPlatformLocation() {\n  return new BrowserPlatformLocation(inject(DOCUMENT));\n } \n\n", "/*\n *
@license\n * Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nexport {DomAdapter as
DomAdapter, getDOM as getDOM, setRootDomAdapter as setRootDomAdapter} from './dom_adapter';\nexport
{BrowserPlatformLocation as BrowserPlatformLocation} from './location/platform_location';\n\n", "/*\n *
@license\n * Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n\n/*\n * Joins two parts of a URL with a slash if needed.\n * \n * @param start URL string\n * @param end
URL string\n * \n * @returns The joined URL string.\n */\n\nexport function joinWithSlash(start: string, end:
string): string {\n  if (start.length == 0) {\n    return end;\n  } \n  if (end.length == 0) {\n    return start;\n  } \n  let
slashes = 0;\n  if (start.endsWith('/')) {\n    slashes++;\n  } \n  if (end.startsWith('/')) {\n    slashes++;\n  } \n  if
(slashes == 2) {\n    return start + end.substring(1);\n  } \n  if (slashes == 1) {\n    return start + end;\n  } \n  return
start + '/' + end;\n } \n\n\n/*\n * Removes a trailing slash from a URL string if needed.\n * \n * Looks for the first
occurrence of either `#`, `?`, or the end of the\n * line as `^` characters and removes the trailing slash if one exists.\n
*\n * @param url URL string.\n * \n * @returns The URL string,
modified if needed.\n */\n\nexport function stripTrailingSlash(url: string): string {\n  const match =
url.match(/#|\\?|$/);\n  const pathEndIdx = match && match.index || url.length;\n  const droppedSlashIdx =
pathEndIdx - (url[pathEndIdx - 1] === '/' ? 1 : 0);\n  return url.slice(0, droppedSlashIdx) +
url.slice(pathEndIdx);\n } \n\n\n/*\n * Normalizes URL parameters by prepending with `?` if needed.\n * \n * @param
params String of URL parameters.\n * \n * @returns The normalized URL parameters string.\n */\n\nexport function
normalizeQueryParams(params: string): string {\n  return params && params[0] !== '?' ? '?' + params :
params;\n } \n\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n\nimport {Inject, Injectable, InjectionToken, OnDestroy, Optional, inject} from '@angular/core';\nimport
{DOCUMENT} from './dom_tokens';\n\nimport

```

{LocationChangeEventListener} from './platform_location';\nimport {joinWithSlash, normalizeQueryParams} from './util';\n\n * Enables the `Location` service to read route state from the browser's URL.\n * Angular provides two strategies:\n * `HashLocationStrategy` and `PathLocationStrategy`.\n * Applications should use the `Router` or `Location` services to\n * interact with application route state.\n * For instance, `HashLocationStrategy` produces URLs like\n * `<code class="no-auto-link">http://example.com/#/foo</code>`,\n * and `PathLocationStrategy` produces\n * `<code class="no-auto-link">http://example.com/foo</code>` as an equivalent URL.\n * See these two classes for more.\n *
@publicApi\n * /n @Injectable({providedIn: 'root', useFactory: provideLocationStrategy})\n export abstract class LocationStrategy {\n abstract path(includeHash?: boolean): string;\n abstract prepareExternalUrl(internal: string): string;\n abstract pushState(state: any, title: string, url: string, queryParams: string): void;\n abstract replaceState(state: any, title: string, url: string, queryParams: string): void;\n abstract forward(): void;\n abstract back(): void;\n historyGo?(relativePosition: number): void {\n throw new Error('Not implemented');\n }\n abstract onPopState(fn: LocationChangeListener): void;\n abstract getBaseHref(): string;\n }\n\n export function provideLocationStrategy(platformLocation: PlatformLocation) {\n // See #23917\n const location = inject(DOCUMENT).location;\n return new PathLocationStrategy(\n inject(PlatformLocation as any), location && location.origin || ");\n }\n\n\n * A predefined [DI token](guide/glossary#di-token) for the base href\n * to be used with the `PathLocationStrategy`.\n * The base href is the URL prefix that should be preserved when generating\n * and recognizing URLs.\n *
@usageNotes\n * The following example shows how to use this token to configure the root app injector\n * with a base href value, so that the DI framework can supply the dependency anywhere in the app.\n *
```\ntypescript\n \* import {Component, NgModule} from '@angular/core';\n \* import {APP\_BASE\_HREF} from '@angular/common';\n \* \n \* @NgModule({\n \* providers: [{provide: APP\_BASE\_HREF, useValue: '/my/app'}] \n \* })\n \* class AppModule {} \n \* \n \* @publicApi\n \* /n\n export const APP\_BASE\_HREF = new InjectionToken<string>('appBaseHref');\n\n\n \* A {@link LocationStrategy} used to configure the {@link Location} service to\n \* represent its state in the\n \*  
[path](https://en.wikipedia.org/wiki/Uniform\_Resource\_Locator#Syntax) of the\n \* browser's URL.\n \* If you're using `PathLocationStrategy`, you must provide a {@link APP\_BASE\_HREF}\n \* or add a `<base href>` element to the document.\n \* For instance, if you provide an `APP\_BASE\_HREF` of `'/my/app/'` and call\n \* `location.go('/foo')`, the browser's URL will become `example.com/my/app/foo`. To ensure all relative URIs resolve correctly,\n \* the `<base href>` and/or `APP_BASE_HREF` should end with a `'/'`.  
Similarly, if you add `<base href='/my/app/'>` to the document and call `location.go('/foo')`, the browser's URL will become `example.com/my/app/foo`.  
Note that when using `PathLocationStrategy`, neither the query nor the fragment in the `<base href>` will be preserved, as outlined by the [RFC](https://tools.ietf.org/html/rfc3986#section-5.2.2).  
@usageNotes\n \* ### Example\n \*  
{@example common/location/ts/path\_location\_component.ts region='LocationComponent'}\n \* @publicApi\n \* /n\n @Injectable()\n export class PathLocationStrategy extends LocationStrategy implements OnDestroy {\n private \_baseHref: string;\n private \_removeListenerFns: (() => void)[] = [];\n\n constructor(\n private \_platformLocation: PlatformLocation,\n @Optional() @Inject(APP\_BASE\_HREF) href?: string) {\n super();\n if (href == null) {\n href = this.\_platformLocation.getBaseHrefFromDOM();\n }\n if (href == null) {\n throw new Error(\n `No base href set. Please provide a value for the APP\_BASE\_HREF token or add a base element to the document.`);\n }\n this.\_baseHref = href;\n }\n\n /\*\* @nodoc \*/\n ngOnDestroy(): void {\n while (this.\_removeListenerFns.length) {\n this.\_removeListenerFns.pop()!();\n }\n }\n\n override onPopState(fn: LocationChangeListener): void {\n this.\_removeListenerFns.push(\n this.\_platformLocation.onPopState(fn),\n this.\_platformLocation.onHashChange(fn));\n }\n\n override getBaseHref(): string {\n return this.\_baseHref;\n }\n\n override prepareExternalUrl(internal: string): string {\n return joinWithSlash(this.\_baseHref, internal);\n }\n\n override path(includeHash: boolean = false): string {\n const pathname =\n this.\_platformLocation.pathname + normalizeQueryParams(this.\_platformLocation.search);\n const hash =

this.\_platformLocation.hash;\n

```
return hash && includeHash ? `${pathname}${hash}` : pathname;\n }\n\n override pushState(state: any, title: string, url: string, queryParams: string) {\n const externalUrl = this.prepareExternalUrl(url + normalizeQueryParams(queryParams));\n this._platformLocation.pushState(state, title, externalUrl);\n }\n\n override replaceState(state: any, title: string, url: string, queryParams: string) {\n const externalUrl = this.prepareExternalUrl(url + normalizeQueryParams(queryParams));\n this._platformLocation.replaceState(state, title, externalUrl);\n }\n\n override forward(): void {\n this._platformLocation.forward();\n }\n\n override back(): void {\n this._platformLocation.back();\n }\n\n override historyGo(relativePosition: number = 0): void {\n this._platformLocation.historyGo?.(relativePosition);\n }\n}\n\n"/**\n * @license\n * Copyright Google LLC\n * All Rights Reserved.\n * Use of this source code is governed by an MIT-style
```

```
license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Inject, Injectable, OnDestroy, Optional} from '@angular/core';\n\nimport {APP_BASE_HREF, LocationStrategy} from './location_strategy';\nimport {LocationChangeListener, PlatformLocation} from './platform_location';\nimport {joinWithSlash, normalizeQueryParams} from './util';\n\n/**\n * @description\n * A {@link LocationStrategy} used to configure the {@link Location} service to\n * represent its state in the\n * [hash fragment](https://en.wikipedia.org/wiki/Uniform_Resource_Locator#Syntax)\n * of the browser's URL.\n * For instance, if you call `location.go('/foo')`, the browser's URL will become\n * `example.com#/foo`.\n * @usageNotes\n * ### Example\n * {@example common/location/ts/hash_location_component.ts region='LocationComponent'}\n * @publicApi\n */\n\n@Injectable()\nexport class HashLocationStrategy extends LocationStrategy implements OnDestroy {\n private
```

```
_baseHref: string = '';\n private _removeListenerFns: (() => void)[] = [];\n\n constructor(\n private _platformLocation: PlatformLocation,\n @Optional() @Inject(APP_BASE_HREF) _baseHref?: string) {\n super();\n if (_baseHref != null) {\n this._baseHref = _baseHref;\n }\n\n /** @nodoc */\n ngOnDestroy(): void {\n while (this._removeListenerFns.length) {\n this._removeListenerFns.pop()!();\n }\n\n override onPopState(fn: LocationChangeListener): void {\n this._removeListenerFns.push(\n this._platformLocation.onPopState(fn),\n this._platformLocation.onHashChange(fn));\n }\n\n override getBaseHref(): string {\n return this._baseHref;\n }\n\n override path(includeHash: boolean = false): string {\n // the hash value is always prefixed with a `#`\n // and if it is empty then it will stay empty\n let path = this._platformLocation.hash;\n if (path == null) path = '#';\n return path.length > 0 ? path.substring(1) : path;\n }\n\n override prepareExternalUrl(internal: string): string {\n const url = joinWithSlash(this._baseHref, internal);\n return url.length > 0 ? ('#' + url) : url;\n }\n\n override pushState(state: any, title: string, path: string, queryParams: string) {\n let url: string|null = this.prepareExternalUrl(path + normalizeQueryParams(queryParams));\n if (url.length == 0) {\n url = this._platformLocation.pathname;\n }\n this._platformLocation.pushState(state, title, url);\n }\n\n override replaceState(state: any, title: string, path: string, queryParams: string) {\n let url = this.prepareExternalUrl(path + normalizeQueryParams(queryParams));\n if (url.length == 0) {\n url = this._platformLocation.pathname;\n }\n this._platformLocation.replaceState(state, title, url);\n }\n\n override forward(): void {\n this._platformLocation.forward();\n }\n\n override back(): void {\n this._platformLocation.back();\n }\n\n override historyGo(relativePosition:
```

```
number = 0): void {\n this._platformLocation.historyGo?.(relativePosition);\n}\n}\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {EventEmitter, Injectable, inject} from '@angular/core';\nimport {SubscriptionLike} from 'rxjs';\nimport {LocationStrategy} from './location_strategy';\nimport {PlatformLocation} from './platform_location';\nimport {joinWithSlash, normalizeQueryParams, stripTrailingSlash} from './util';\n\n/**\n * @publicApi\n */\n\nexport interface PopStateEvent {\n pop?: boolean;\n state?: any;\n type?: string;\n url?: string;\n}\n\n/**\n * @description\n * A service that applications can use to interact with a browser's URL.\n * Depending on the `LocationStrategy` used, `Location` persists\n * to the URL's path or the URL's hash segment.\n * @usageNotes\n * It's
```

better to use the `Router.navigate()` service to trigger route changes. Use `Location` only if you need to interact with or create normalized URLs outside of routing.

`Location` is responsible for normalizing the URL against the application's base href. A normalized URL is absolute from the URL host, includes the application's base href, and has no trailing slash: `/my/app/user/123` is normalized to `/my/app/user/123/` is not normalized to `/my/app/user/123/` is not normalized.

### Example

```

<code-example>
path='common/location/ts/path_location_component.ts' region='LocationComponent'</code-example>
@publicApi
@Injectable({
 providedIn: 'root',
 // See #23917
 useFactory: createLocation,
})
export class Location {
 /** @internal */
 _subject: EventEmitter<any> = new EventEmitter();
 /** @internal */
 _baseHref: string;
 /** @internal */
 _platformStrategy: LocationStrategy;
 /** @internal */
 _platformLocation: PlatformLocation;
 /** @internal */
 _urlChangeListeners: ((url: string, state: unknown) => void)[] = [];
 /** @internal */
 _urlChangeSubscription?: SubscriptionLike;

 constructor(platformStrategy: LocationStrategy, platformLocation: PlatformLocation) {
 this._platformStrategy = platformStrategy;
 const browserBaseHref = this._platformStrategy.getBaseHref();
 this._platformLocation = platformLocation;
 this._baseHref = stripTrailingSlash(_stripIndexHtml(browserBaseHref));
 this._platformStrategy.onPopState((ev) => {
 this._subject.emit({
 url: this.path(true),
 pop: true,
 state: ev.state,
 type: ev.type,
 });
 });
 }

 /**
 * Normalizes the URL path for this location.
 * @param includeHash True to include an anchor fragment in the path.
 * @returns The normalized URL path.
 */
 // TODO: vsavkin. Remove the boolean flag and always include hash once
 the deprecated router is // removed.
 path(includeHash: boolean = false): string {
 return this.normalize(this._platformStrategy.path(includeHash));
 }

 /**
 * Reports the current state of the location history.
 * @returns The current value of the `history.state` object.
 */
 getState(): unknown {
 return this._platformLocation.getState();
 }

 /**
 * Normalizes the given path and compares to the current normalized path.
 * @param path The given URL path.
 * @param query Query parameters.
 * @returns True if the given URL path is equal to the current normalized path, false otherwise.
 */
 isCurrentPathEqualTo(path: string, query: string = ""): boolean {
 return this.path() == this.normalize(path + normalizeQueryParams(query));
 }

 /**
 * Normalizes a URL path by stripping any trailing slashes.
 * @param url String representing a URL.
 * @returns The normalized URL string.
 */
 normalize(url: string): string {
 return Location.stripTrailingSlash(_stripBaseHref(this._baseHref, _stripIndexHtml(url)));
 }

 /**
 * Normalizes an external URL path.
 * If the given URL doesn't begin with a leading slash ('/'), adds one before normalizing.
 * Adds a hash if `HashLocationStrategy` is in use, or the `APP_BASE_HREF` if the `PathLocationStrategy` is in use.
 * @param url String representing a URL.
 * @returns A normalized platform-specific URL.
 */
 prepareExternalUrl(url: string): string {
 if (url && url[0] !== '/') {
 url = '/' + url;
 }
 return this._platformStrategy.prepareExternalUrl(url);
 }

 // TODO: rename this method to pushState
 /**
 * Changes the browser's URL to a normalized version of a given URL, and pushes a new item onto the platform's history.
 * @param path URL path to normalize.
 * @param query Query parameters.
 * @param state Location history state.
 */
 go(path: string, query: string = "", state: any = null): void {
 this._platformStrategy.pushState(state, "", path, query);
 this._notifyUrlChangeListeners(this.prepareExternalUrl(path + normalizeQueryParams(query)), state);
 }

 /**
 * Changes the browser's URL to a normalized version of the given URL, and replaces the top item on the platform's history stack.
 * @param path URL path to normalize.
 * @param query Query parameters.
 * @param state Location history state.
 */
 replaceState(path: string, query: string = "", state: any = null): void {
 this._platformStrategy.replaceState(state, "", path, query);
 this._notifyUrlChangeListeners(this.prepareExternalUrl(path + normalizeQueryParams(query)), state);
 }

 /**
 * Navigates forward in the platform's history.
 */
 forward(): void {
 this._platformStrategy.forward();
 }

 /**
 * Navigates back in the platform's history.
 */
 back(): void {
 this._platformStrategy.back();
 }

 /**
 * Navigate to a specific page from session history, identified by its relative position to the current page.
 * @param relativePosition Position of the target page in the history relative to the current page.
 * A negative value moves backwards, a positive

```

value moves forwards, e.g. `location.historyGo(2)` moves forward two pages and `location.historyGo(-2)` moves back two pages. When we try to go beyond what's stored in the history session, we stay in the current page. Same behaviour occurs when `relativePosition` equals 0. @see [https://developer.mozilla.org/en-US/docs/Web/API/History\\_API#Moving\\_to\\_a\\_specific\\_point\\_in\\_history](https://developer.mozilla.org/en-US/docs/Web/API/History_API#Moving_to_a_specific_point_in_history)

`historyGo(relativePosition: number = 0): void` {  
 this.\_platformStrategy.historyGo?.(relativePosition);  
} /\*\* Registers a URL change listener. Use to catch updates performed by the Angular framework that are not detectable through `"popstate"` or `"hashchange"` events.  
@param fn The change handler function, which take a URL and a location history state.  
onUrlChange(fn: (url: string, state: unknown) => void) {  
 this.\_urlChangeListeners.push(fn);  
 if (!this.\_urlChangeSubscription) {  
 this.\_urlChangeSubscription = this.subscribe(v => {  
 this.\_notifyUrlChangeListeners(v.url, v.state);  
 });  
 }  
} /\*\* @internal  
\_notifyUrlChangeListeners(url: string = "", state: unknown) {  
 this.\_urlChangeListeners.forEach(fn => fn(url, state));  
} /\*\* Subscribes to the platform's `"popState"` events.  
Note: `Location.go()` does not trigger the `"popState"` event in the browser. Use `Location.onUrlChange()` to subscribe to URL changes instead.  
@param value Event that is triggered when the state history changes.  
@param exception The exception to throw.  
@see [onpopstate](https://developer.mozilla.org/en-US/docs/Web/API/WindowEventHandlers/onpopstate)  
@returns Subscribed events.  
subscribe(onNext: (value: PopStateEvent) => void, onThrow?: ((exception: any) => void)|null, onReturn?: () => void)|null): SubscriptionLike {  
 return this.\_subject.subscribe({next: onNext, error: onThrow, complete: onReturn});  
} /\*\* Normalizes URL parameters by prepending with `?'`` if needed.  
@param params String of URL parameters.  
@returns The normalized URL parameters string.  
public static normalizeQueryParams(params: string) => string = normalizeQueryParams;  
/\*\* Joins two parts of a URL with a slash if needed.  
@param start URL string  
@param end URL string  
@returns The joined URL string.  
public static joinWithSlash(start: string, end: string) => string = joinWithSlash;  
/\*\* Removes a trailing slash from a URL string if needed.  
Looks for the first occurrence of either `#`, `?`, or the end of the line as ``` characters and removes the trailing slash if one exists.  
@param url URL string.  
@returns The URL string, modified if needed.  
public static stripTrailingSlash(url: string) => string = stripTrailingSlash;  
export function createLocation() {  
 return new Location(inject(LocationStrategy as any), inject(PlatformLocation as any));  
}  
function \_stripBaseHref(baseHref: string, url: string): string {  
 return baseHref && url.startsWith(baseHref) ? url.substring(baseHref.length) : url;  
}  
function \_stripIndexHtml(url: string): string {  
 return url.replace(/\/index.html\$/, "");  
} /\*\* @license  
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Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at <https://angular.io/license>  
export {HashLocationStrategy} from './hash\_location\_strategy';  
export {Location, PopStateEvent} from './location';  
export {APP\_BASE\_HREF, LocationStrategy, PathLocationStrategy} from './location\_strategy';  
export {LOCATION\_INITIALIZED, LocationChangeEvent, LocationChangeListener, PlatformLocation} from './platform\_location';  
} /\*\* @license  
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THIS CODE IS GENERATED - DO NOT MODIFY.  
export type CurrenciesSymbols = [string] | [string | undefined, string];  
/\*\* @internal  
export const CURRENCIES\_EN: {[code: string]: CurrenciesSymbols | [string | undefined, string | undefined, number]} = {  
 "ADP": [undefined, undefined, 0],  
 "AFN": [undefined, "", 0],  
 "ALL": [undefined, undefined, 0],  
 "AMD": [undefined, "", 2],  
 "AOA": [undefined, "Kz", ""],  
 "ARS": [undefined, "\$", ""],  
 "AUD": ["A\$", "\$", ""],  
 "AZN": [undefined, "", ""],  
 "BAM": [undefined, "KM", ""],  
 "BBD": [undefined, "\$", ""],  
 "BDT": [undefined, "", ""],  
 "BHD": [undefined, undefined, 3],  
 "BIF": [undefined, undefined, 0],  
 "BMD": [undefined, "\$", ""],  
 "BND": [undefined, "\$", ""],  
 "BOB": [undefined, "Bs", ""],  
 "BRL": ["R\$", ""],  
 "BSD": [undefined, "\$", ""],  
 "BWP": [undefined, "P", ""],  
 "BYN": [undefined, "", 2],  
 "BYR": [undefined, undefined, 0],  
 "BZD": [undefined, "\$", ""],  
 "CAD": ["CA\$", "\$", 2],  
 "CHF": [undefined, undefined, 2],  
 "CLF": [undef



ined,undefined,4],\"CLP\":[undefined,\"\$\",0],\"CNY\":[\"CN¥\",\"¥\"],\"COP\":[undefined,\"\$\",2],\"CRC\":[undefined,\"\$\",2],\"CUC\":[undefined,\"\$\"],\"CUP\":[undefined,\"\$\"],\"CZK\":[undefined,\"K\",2],\"DJF\":[undefined,undefined,0],\"DKK\":[undefined,\"kr\",2],\"DOP\":[undefined,\"\$\"],\"EGP\":[undefined,\"£\"],\"ESP\":[undefined,\"\$\",0],\"EUR\":[\"€\"],\"FJD\":[undefined,\"\$\"],\"FKP\":[undefined,\"£\"],\"GBP\":[\"£\"],\"GEL\":[undefined,\"\$\"],\"GHS\":[undefined,\"GH\"],\"GIP\":[undefined,\"£\"],\"GNF\":[undefined,\"FG\",0],\"GTQ\":[undefined,\"Q\"],\"GYD\":[undefined,\"\$\",2],\"HKD\":[\"HK\$\",\"\$\"],\"HNL\":[undefined,\"L\"],\"HRK\":[undefined,\"kn\"],\"HUF\":[undefined,\"Ft\",2],\"IDR\":[undefined,\"Rp\",2],\"ILS\":[\"₪\"],\"INR\":[\"₹\"],\"IQD\":[undefined,undefined,0],\"IRR\":[undefined,undefined,0],\"ISK\":[undefined,\"kr\",0],\"ITL\":[undefined,undefined,0],\"JMD\":[undefined,\"\$\"],\"JOD\":[undefined,undefined,3],\"JPY\":[\"¥\",undefined,0],\"KHR\":[undefined,\"\$\"],\"KMF\":[undefined,\"CF\",0],\"KPW\":[undefined,\"\$\",0],\"KRW\":[\"₩\",undefined,0],\"KWD\":[undefined,undefined,3],\"KYD\":[undefined,\"\$\"],\"KZT\":[undefined,\"\$\"],\"LAK\":[undefined,\"\$\",0],\"LBP\":[undefined,\"L£\",0],\"LKR\":[undefined,\"Rs\"],\"LRD\":[undefined,\"\$\"],\"LTL\":[undefined,\"Lt\"],\"LUF\":[undefined,undefined,0],\"LVL\":[undefined,\"Ls\"],\"LYD\":[undefined,undefined,3],\"MGA\":[undefined,\"Ar\",0],\"MGF\":[undefined,undefined,0],\"MMK\":[undefined,\"K\",0],\"MNT\":[undefined,\"\$\",2],\"MRO\":[undefined,undefined,0],\"MUR\":[undefined,\"Rs\",2],\"MXN\":[\"MX\$\",\"\$\"],\"MYR\":[undefined,\"RM\"],\"NAD\":[undefined,\"\$\"],\"NGN\":[undefined,\"\$\"],\"NIO\":[undefined,\"C\$\"],\"NOK\":[undefined,\"kr\",2],\"NPR\":[undefined,\"Rs\"],\"NZD\":[\"NZ\$\",\"\$\"],\"OMR\":[undefined,undefined,3],\"PHP\":[\"₱\"],\"PKR\":[undefined,\"Rs\",2],\"PLN\":[undefined,\"z\"],\"PYG\":[undefined,\"\$\",0],\"RON\":[undefined,\"lei\"],\"RSD\":[undefined,undefined,0],\"RUB\":[undefined,\"\$\"],\"RUR\":[undefined,\"\$\"],\"RWF\":[undefined,\"RF\",0],\"SBD\":[undefined,\"\$\"],\"SEK\":[undefined,\"kr\",2],\"SGD\":[undefined,\"\$\"],\"SHP\":[undefined,\"£\"],\"SLL\":[undefined,undefined,0],\"SOS\":[undefined,undefined,0],\"SRD\":[undefined,\"\$\"],\"SSP\":[undefined,\"£\"],\"STD\":[undefined,undefined,0],\"STN\":[undefined,\"Db\"],\"SYP\":[undefined,\"£\",0],\"THB\":[undefined,\"฿\"],\"TMM\":[undefined,undefined,0],\"TND\":[undefined,undefined,3],\"TOP\":[undefined,\"T\$\"],\"TRL\":[undefined,undefined,0],\"TRY\":[undefined,\"₺\"],\"TTD\":[undefined,\"\$\"],\"TWD\":[\"NT\$\",\"\$\",2],\"TZS\":[undefined,undefined,2],\"UAH\":[undefined,\"₴\"],\"UGX\":[undefined,undefined,0],\"USD\":[\"\$\"],\"UYU\":[undefined,undefined,0],\"UYU\":[undefined,\"\$\"],\"UYW\":[undefined,undefined,4],\"UZS\":[undefined,undefined,2],\"VEF\":[undefined,\"Bs\",2],\"VND\":[\"₫\",undefined,0],\"VUV\":[undefined,undefined,0],\"XAF\":[\"FCFA\",undefined,0],\"XCD\":[\"EC\$\",\"\$\"],\"XOF\":[\"F

CFA\",undefined,0],\"XPF\":[\"CFPF\",undefined,0],\"XXX\":[\"Ɑ\",undefined,0],\"YER\":[undefined,undefined,0],\"ZAR\":[undefined,\"R\"],\"ZMK\":[undefined,undefined,0],\"ZMW\":[undefined,\"ZK\"],\"ZWD\":[undefined,undefined,0];\n

\"/\*\n \* @license\n \* Copyright Google LLC All Rights Reserved.\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at <https://angular.io/license>\n \*/\nimport

{CurrencyIndex, ExtraLocaleDataIndex, findLocaleData, getLocaleCurrencyCode, getLocalePluralCase, LocaleDataIndex} from '@angular/core';\nimport {CURRENCIES\_EN,

CurrenciesSymbols} from './currencies';\n\n/\*\*\n \* Format styles that can be used to represent numbers.\n \* @see `getLocaleNumberFormat()`. \n \* @see [Internationalization (i18n) Guide](<https://angular.io/guide/i18n-overview>)\n \*\n \* @publicApi\n \*/\nexport enum NumberFormatStyle {\n Decimal,\n Percent,\n Currency,\n Scientific\n}\n\n/\*\*\n \* Plurality cases used for translating plurals to different languages.\n \* @see `NgPlural`\n \*\n \* @see `NgPluralCase`\n \* @see [Internationalization (i18n) Guide](<https://angular.io/guide/i18n-overview>)\n \*\n \* @publicApi\n \*/\nexport enum Plural {\n Zero = 0,\n One = 1,\n Two = 2,\n Few = 3,\n Many = 4,\n Other = 5,\n}\n\n/\*\*\n \* Context-dependant translation forms for strings.\n \* Typically the standalone version is for the nominative form of the word,\n \* and the format version is used for the genitive case.\n \* @see [CLDR website](<http://cldr.unicode.org/translation/date-time-1/date-time#TOC-Standalone-vs.-Format-Styles>)\n \*\n \* @see [Internationalization (i18n) Guide](<https://angular.io/guide/i18n-overview>)\n \*\n \* @publicApi\n \*/\nexport enum FormStyle {\n Format,\n Standalone\n}\n\n/\*\*\n \* String widths available for translations.\n \* The specific character widths are locale-specific.\n \* Examples are given for the word \"Sunday\" in English.\n \*\n \* @publicApi\n \*/\nexport enum TranslationWidth {\n /\*\* 1 character for `en-US`. For example: 'S' \*/\n Narrow,\n /\*\* 3 characters for `en-US`. For example: 'Sun' \*/\n Abbreviated,\n /\*\* Full length for `en-US`. For example: 'Sunday' \*/\n Wide,\n /\*\* 2 characters for `en-US`, For example: 'Su' \*/\n Short\n}\n\n/\*\*\n \* String widths

available for date-time formats.\n \* The specific character widths are locale-specific.\n \* Examples are given for `en-US`.\n \* @see `getLocaleDateFormat()`\n \* @see `getLocaleTimeFormat()`\n \* @see `getLocaleDateTimeFormat()`\n \* @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n \* @publicApi\n

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*\\nexport enum FormatWidth {\n /**\n * For `en-US`, 'M/d/yy, h:mm a'\n * (Example: `6/15/15, 9:03 AM`)\n */\n Short,\n /**\n * For `en-US`, 'MMM d, y, h:mm:ss a'\n * (Example: `Jun 15, 2015, 9:03:01 AM`)\n */\n Medium,\n /**\n * For `en-US`, 'MMMM d, y, h:mm:ss a z'\n * (Example: `June 15, 2015 at 9:03:01 AM GMT+1`)\n */\n Long,\n /**\n * For `en-US`, 'EEEE, MMMM d, y, h:mm:ss a zzzz'\n * (Example: `Monday, June 15, 2015 at 9:03:01 AM GMT+01:00`)\n */\n Full\n}\n\n/**\n * Symbols that can be used to replace placeholders in number patterns.\n * Examples are based on `en-US` values.\n */\n * @see `getLocaleNumberSymbol()`\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n */\n * @publicApi\n */\\nexport enum NumberSymbol {\n /**\n * Decimal separator.\n * For `en-US`, the dot character.\n * Example: 2,345`.67\n */\n Decimal,\n /**\n * Grouping separator, typically for thousands.\n * For `en-US`,\n the comma character.\n * Example: 2`,`345.67\n */\n Group,\n /**\n * List-item separator.\n * Example: 'one, two, and three'\n */\n List,\n /**\n * Sign for percentage (out of 100).\n * Example: 23.4%\n */\n PercentSign,\n /**\n * Sign for positive numbers.\n * Example: +23\n */\n PlusSign,\n /**\n * Sign for negative numbers.\n * Example: -23\n */\n MinusSign,\n /**\n * Computer notation for exponential value (n times a power of 10).\n * Example: 1.2E3\n */\n Exponential,\n /**\n * Human-readable format of exponential.\n * Example: 1.2x103\n */\n SuperscriptingExponent,\n /**\n * Sign for permille (out of 1000).\n * Example: 23.4‰\n */\n PerMille,\n /**\n * Infinity, can be used with plus and minus.\n * Example: , +, -\n */\n Infinity,\n /**\n * Not a number.\n * Example: NaN\n */\n NaN,\n /**\n * Symbol used between time units.\n * Example: 10:52\n */\n TimeSeparator,\n /**\n * Decimal separator for currency values (fallback to `Decimal`).\n * Example: $2,345.67\n */\n CurrencyDecimal,\n /**\n * Group separator for currency values (fallback to `Group`).\n * Example: $2,345.67\n */\n CurrencyGroup\n}\n\n/**\n * The value for each day of the week, based on the `en-US` locale\n */\n * @publicApi\n */\\nexport enum WeekDay {\n Sunday = 0,\n Monday,\n Tuesday,\n Wednesday,\n Thursday,\n Friday,\n Saturday\n}\n\n/**\n * Retrieves the locale ID from the currently loaded locale.\n * The loaded locale could be, for example, a global one rather than a regional one.\n * @param locale A locale code, such as `fr-FR`.\n * @returns The locale code. For example, `fr`.\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n */\n * @publicApi\n */\\nexport function getLocaleId(locale: string): string {\n return findLocaleData(locale)[LocaleDataIndex.LocaleId];\n}\n\n/**\n * Retrieves day period strings for the given locale.\n */\n * @param locale A locale code for the locale format rules to use.\n * @param formStyle The required grammatical form.\n * @param width The required character width.\n * @returns An array of localized period strings. For example, `[AM, PM]` for `en-US`.\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n */\n * @publicApi\n */\\nexport function getLocaleDayPeriods(\n locale: string, formStyle: FormStyle, width: TranslationWidth): Readonly<[string, string]> {\n const data = findLocaleData(locale);\n const amPmData = <[string, string][]>[data[LocaleDataIndex.DayPeriodsFormat], data[LocaleDataIndex.DayPeriodsStandalone]\n];\n const amPm = getLastDefinedValue(amPmData, formStyle);\n return getLastDefinedValue(amPm, width);\n}\n\n/**\n * Retrieves days of the week for the given locale, using the Gregorian calendar.\n */\n * @param locale A locale code for the locale format rules to use.\n * @param formStyle The required grammatical form.\n * @param width The required character width.\n * @returns An array of localized name strings.\n * For example, `[Sunday, Monday, ... Saturday]` for `en-US`.\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n */\n * @publicApi\n */\\nexport function getLocaleDayNames(\n locale: string, formStyle: FormStyle, width: TranslationWidth): ReadonlyArray<string> {\n const data = findLocaleData(locale);\n const daysData = <string[][]>[data[LocaleDataIndex.DaysFormat], data[LocaleDataIndex.DaysStandalone]];\n const days =

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getLastDefinedValue(daysData, formStyle);\n return getLastDefinedValue(days, width);\n}\n\n/**\n * Retrieves
months of the year for the given locale, using the Gregorian calendar.\n * @param locale A locale code for the
locale format rules to use.\n * @param formStyle The required grammatical form.\n * @param width The required
character width.\n * @returns An array of localized name strings.\n * For example, `[January, February,
...]' for `en-US`.\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n *
@publicApi\n */\nexport function getLocaleMonthNames(\n locale: string, formStyle: FormStyle, width:
TranslationWidth): ReadonlyArray<string> {\n const data = findLocaleData(locale);\n const monthsData =\n <string[][]>[data[LocaleDataIndex.MonthsFormat], data[LocaleDataIndex.MonthsStandalone]];\n const months =
getLastDefinedValue(monthsData, formStyle);\n return getLastDefinedValue(months, width);\n}\n\n/**\n *
Retrieves Gregorian-calendar eras for the given locale.\n * @param locale A locale code for the locale format rules
to use.\n * @param width The required character width.\n\n * @returns An array of localized era strings.\n * For
example, `[AD, BC]' for `en-US`.\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-
overview)\n *
@publicApi\n */\nexport function getLocaleEraNames(\n locale: string, width:
TranslationWidth): Readonly<[string,
string]> {\n const data = findLocaleData(locale);\n const erasData = <[string,
string]]>data[LocaleDataIndex.Eras];\n return getLastDefinedValue(erasData, width);\n}\n\n/**\n * Retrieves the
first day of the week for the given locale.\n *
@param locale A locale code for the locale format rules to use.\n *
@returns A day index number, using the 0-based week-day index for `en-US` (Sunday = 0, Monday = 1, ...).\n *
For example, for `fr-FR`, returns 1 to indicate that the first day is Monday.\n * @see [Internationalization (i18n)
Guide](https://angular.io/guide/i18n-overview)\n *
@publicApi\n */\nexport function
getLocaleFirstDayOfWeek(locale: string): WeekDay {\n const data = findLocaleData(locale);\n return
data[LocaleDataIndex.FirstDayOfWeek];\n}\n\n/**\n * Range of week days that are considered the week-end for
the given locale.\n *
@param locale A locale code for the locale format rules to use.\n *
@returns The range of
day values, `[startDay,
endDay]`.\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n *
@publicApi\n */\nexport function getLocaleWeekEndRange(locale: string): [WeekDay, WeekDay] {\n const data =
findLocaleData(locale);\n return data[LocaleDataIndex.WeekendRange];\n}\n\n/**\n * Retrieves a localized date-
value forming string.\n *
@param locale A locale code for the locale format rules to use.\n *
@param width
The format type.\n *
@returns The localized formatting string.\n * @see `FormatWidth`\n * @see
[Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n *
@publicApi\n */\nexport
function getLocaleDateFormat(locale: string, width: FormatWidth): string {\n const data =
findLocaleData(locale);\n return getLastDefinedValue(data[LocaleDataIndex.DateFormat], width);\n}\n\n/**\n *
Retrieves a localized time-value formatting string.\n *
@param locale A locale code for the locale format rules
to use.\n *
@param width The format type.\n *
@returns The localized formatting string.\n * @see `FormatWidth`\n * @see [Internationalization (i18n)
Guide](https://angular.io/guide/i18n-overview)\n *
@publicApi\n */\nexport function
getLocaleTimeFormat(locale: string, width: FormatWidth): string {\n const data = findLocaleData(locale);\n return
getLastDefinedValue(data[LocaleDataIndex.TimeFormat], width);\n}\n\n/**\n * Retrieves a localized date-time
formatting string.\n *
@param locale A locale code for the locale format rules to use.\n *
@param width The
format type.\n *
@returns The localized formatting string.\n * @see `FormatWidth`\n * @see [Internationalization
(i18n) Guide](https://angular.io/guide/i18n-overview)\n *
@publicApi\n */\nexport function
getLocaleDateTimeFormat(locale: string, width: FormatWidth): string {\n const data = findLocaleData(locale);\n const
dateTimeFormatData = <string[]>data[LocaleDataIndex.DateTimeFormat];\n return
getLastDefinedValue(dateTimeFormatData, width);\n}\n\n/**\n *
Retrieves a localized number symbol that can be used to replace placeholders in number formats.\n *
@param
locale The locale code.\n *
@param symbol The symbol to localize.\n *
@returns The character for the localized
symbol.\n * @see `NumberSymbol`\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-
overview)\n *
@publicApi\n */\nexport function getLocaleNumberSymbol(locale: string, symbol:

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NumberSymbol): string {\n const data = findLocaleData(locale);\n const res =
data[LocaleDataIndex.NumberSymbols][symbol];\n if (typeof res === 'undefined') {\n if (symbol ===
NumberSymbol.CurrencyDecimal) {\n return
data[LocaleDataIndex.NumberSymbols][NumberSymbol.Decimal];\n } else if (symbol ===
NumberSymbol.CurrencyGroup) {\n return data[LocaleDataIndex.NumberSymbols][NumberSymbol.Group];\n
}\n }\n return res;\n}\n\n/**\n * Retrieves a number format for a given locale.\n * Numbers are formatted using
patterns, like `#,###.00`. For example,
the pattern `#,###.00`\n * when used to format the number 12345.678 could result in `"12'345,678"`. That would
happen if the\n * grouping separator for your language is an apostrophe, and the decimal separator is a comma.\n *
Important: The characters `.` `0` `#` (and others below) are special placeholders\n * that stand for the
decimal separator, and so on, and are NOT real characters.\n * You must NOT "translate" the placeholders. For
example, don't change `.` to `0` even though in\n * your language the decimal point is written with a comma. The
symbols should be replaced by the\n * local equivalents, using the appropriate `NumberSymbol` for your
language.\n * Here are the special characters used in number patterns:\n * | Symbol | Meaning |\n * |-----|-----|
\n * | . | Replaced automatically by the character used for the decimal point. |\n * | , | Replaced by the
"grouping" (thousands) separator. |\n * | 0 | Replaced by a digit (or zero if there
aren't enough digits). |\n * | # | Replaced by a digit (or nothing if there aren't enough). |\n * | ¢ | Replaced by a
currency symbol, such as $ or USD. |\n * | % | Marks a percent format. The % symbol may change position, but
must be retained. |\n * | E | Marks a scientific format. The E symbol may change position, but must be retained. |\n *
| ' | Special characters used as literal characters are quoted with ASCII single quotes. |\n *
@param locale A locale code for the locale format rules to use.\n * @param type The type of numeric value to be formatted (such as
`Decimal` or `Currency`.)\n * @returns The localized format string.\n * @see `NumberFormatStyle`\n * @see
[CLDR website](http://cldr.unicode.org/translation/number-patterns)\n * @see [Internationalization (i18n)
Guide](https://angular.io/guide/i18n-overview)\n *
@publicApi\n */\nexport function
getLocaleNumberFormat(locale: string, type: NumberFormatStyle): string {\n const data =
findLocaleData(locale);\n return
data[LocaleDataIndex.NumberFormats][type];\n}\n\n/**\n * Retrieves the symbol used to represent the currency
for the main country\n * corresponding to a given locale. For example, '$' for `en-US`.\n *
@param locale A locale code for the locale format rules to use.\n * @returns The localized symbol character,\n * or `null` if the main
country cannot be determined.\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-
overview)\n *
@publicApi\n */\nexport function getLocaleCurrencySymbol(locale: string): string|null {\n const
data = findLocaleData(locale);\n return data[LocaleDataIndex.CurrencySymbol] || null;\n}\n\n/**\n * Retrieves the
name of the currency for the main country corresponding\n * to a given locale. For example, 'US Dollar' for `en-
US`.\n *
@param locale A locale code for the locale format rules to use.\n * @returns The currency name,\n * or
`null` if the main country cannot be determined.\n * @see [Internationalization (i18n)
Guide](https://angular.io/guide/i18n-overview)\n *
@publicApi\n */\nexport function getLocaleCurrencyName(locale: string): string|null {\n const data =
findLocaleData(locale);\n return data[LocaleDataIndex.CurrencyName] || null;\n}\n\n/**\n * Retrieves the default
currency code for the given locale.\n * The default is defined as the first currency which is still in use.\n *
@param locale The code of the locale whose currency code we want.\n * @returns The code of the default currency
for the given locale.\n *
@publicApi\n */\nexport function getLocaleCurrencyCode(locale: string): string|null {\n return
getLocaleCurrencyCode(locale);\n}\n\n/**\n * Retrieves the currency values for a given locale.\n *
@param locale A locale code for the locale format rules to use.\n * @returns The currency values.\n * @see
[Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n *
@function
getLocaleCurrencies(locale: string): {[code: string]: CurrenciesSymbols} {\n const
data = findLocaleData(locale);\n return data[LocaleDataIndex.Currencies];\n}\n\n/**\n * @alias
core/getLocalePluralCase\n * @publicApi\n */\nexport const getLocalePluralCase: (locale: string) => ((value:
number) => Plural) =\n getLocalePluralCase;\n\nfunction checkFullData(data: any) {\n if

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(!data[LocaleDataIndex.ExtraData]) {\n throw new Error(`Missing extra locale data for the locale \"${\n
data[LocaleDataIndex.ExtraData].LocaleId}`). Use \"registerLocaleData\" to load new data. See the \"I18n guide\"
on angular.io to know more.`);\n }\n}\n\n/**\n * Retrieves locale-specific rules used to determine which day period
to use\n * when more than one period is defined for a locale.\n *\n * There is a rule for each defined day period.
The\n * first rule is applied to the first day period and so on.\n *\n * Fall back to AM/PM when no rules are available.\n
*\n * A rule can specify a period as time range, or as a single time value.\n *\n * This functionality is
only available when you have loaded the full locale data.\n *\n * See the [\"I18n guide\"](guide/i18n-common-format-
data-locale).\n *\n * @param locale A locale code for the locale format rules to use.\n *\n * @returns The rules for the
locale, a single time value or array of *from-time, to-time*,\n * or null if no periods are available.\n *\n * @see
`getLocaleExtraDayPeriods()`\n *\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-
overview)\n *\n * @publicApi\n */\n\nexport function getLocaleExtraDayPeriodRules(locale: string): (Time|[Time,
Time])[] {\n const data = findLocaleData(locale);\n checkFullData(data);\n const rules =
data[LocaleDataIndex.ExtraData][ExtraLocaleDataIndex.ExtraDayPeriodsRules] || [];\n return rules.map((rule:
string|[string, string]) => {\n if (typeof rule === 'string') {\n return extractTime(rule);\n }\n return
[extractTime(rule[0]), extractTime(rule[1])];\n });\n}\n\n/**\n * Retrieves locale-specific day periods, which
indicate
roughly how a day is broken up\n * in different languages.\n *\n * For example, for `en-US`, periods are morning,
noon, afternoon, evening, and midnight.\n *\n * This functionality is only available when you have loaded the full
locale data.\n *\n * See the [\"I18n guide\"](guide/i18n-common-format-data-locale).\n *\n * @param locale A locale
code for the locale format rules to use.\n *\n * @param formStyle The required grammatical form.\n *\n * @param width
The required character width.\n *\n * @returns The translated day-period strings.\n *\n * @see
`getLocaleExtraDayPeriodRules()`\n *\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-
overview)\n *\n * @publicApi\n */\n\nexport function getLocaleExtraDayPeriods(locale: string, formStyle:
FormStyle, width: TranslationWidth): string[] {\n const data = findLocaleData(locale);\n checkFullData(data);\n
const dayPeriodsData = <string[][]>[\n
data[LocaleDataIndex.ExtraData][ExtraLocaleDataIndex.ExtraDayPeriodFormats],\n
data[LocaleDataIndex.ExtraData][ExtraLocaleDataIndex.ExtraDayPeriodStandalone]\n
];\n const dayPeriods = getLastDefinedValue(dayPeriodsData, formStyle) || [];\n return
getLastDefinedValue(dayPeriods, width) || [];\n}\n\n/**\n * Retrieves the writing direction of a specified locale\n *
@param locale A locale code for the locale format rules to use.\n *\n * @publicApi\n *\n * @returns 'rtl' or 'ltr'\n *\n * @see
[Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n *\n * @nexport function
getLocaleDirection(locale: string): 'ltr'|'rtl' {\n const data = findLocaleData(locale);\n return
data[LocaleDataIndex.Directionality];\n}\n\n/**\n * Retrieves the first value that is defined in an array, going
backwards from an index position.\n *\n * To avoid repeating the same data (as when the \"format\" and
\"standalone\" forms are the same)\n *\n * add the first value to the locale data arrays, and add other values only if they
are different.\n *\n * @param data The data array to retrieve
from.\n *\n * @param index A 0-based index into the array to start from.\n *\n * @returns The value immediately before
the given index position.\n *\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n
*\n * @publicApi\n */\n\nfunction getLastDefinedValue<T>(data: T[], index: number): T {\n for (let i = index; i > -1; i--)
{\n if (typeof data[i] !== 'undefined') {\n return data[i];\n }\n }\n throw new Error('Locale data API: locale
data undefined');\n}\n\n/**\n * Represents a time value with hours and minutes.\n *\n * @publicApi\n */\n\nexport
type Time = {\n hours: number,\n minutes: number;\n}\n\n/**\n * Extracts the hours and minutes from a string like
\"15:45\"\n *\n * @nfunction extractTime(time: string): Time {\n const [h, m] = time.split(':');\n return {hours: +h,
minutes: +m};\n}\n\n/**\n * Retrieves the currency symbol for a given currency code.\n *\n * For example, for
the default `en-US` locale, the code `USD` can\n * be represented by
the narrow symbol `$` or the wide symbol `US$`.\n *\n * @param code The currency code.\n *\n * @param format The
format, `wide` or `narrow`.\n *\n * @param locale A locale code for the locale format rules to use.\n *\n * @returns The
symbol, or the currency code if no symbol is available.\n *\n * @see [Internationalization (i18n)
```

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Guide](https://angular.io/guide/i18n-overview)\n * \n * @publicApi\n * \nexport function getCurrencySymbol(code:
string, format: 'wide'|'narrow', locale = 'en'): string {\n const currency = getLocaleCurrencies(locale)[code] ||
CURRENCIES_EN[code] || [];\n const symbolNarrow = currency[CurrencyIndex.SymbolNarrow];\n\n if (format
=== 'narrow' && typeof symbolNarrow === 'string') {\n return symbolNarrow;\n }\n\n return
currency[CurrencyIndex.Symbol] || code;\n}\n\n// Most currencies have cents, that's why the default is 2\nconst
DEFAULT_NB_OF_CURRENCY_DIGITS = 2;\n\n/**\n * Reports the number of decimal digits for a given
currency.\n * The value depends upon the presence
of cents in that particular currency.\n * \n * @param code The currency code.\n * @returns The number of decimal
digits, typically 0 or 2.\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n * \n *
@publicApi\n * \nexport function getNumberOfCurrencyDigits(code: string): number {\n let digits;\n const
currency = CURRENCIES_EN[code];\n if (currency) {\n digits = currency[CurrencyIndex.NbOfDigits];\n }\n\n return
typeof digits === 'number' ? digits : DEFAULT_NB_OF_CURRENCY_DIGITS;\n}\n\n", "/*\n * @license\n *
Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license
that can be\n * found in the LICENSE file at https://angular.io/license\n * \n\nimport {FormatWidth, FormStyle,
getLocaleDateFormat, getLocaleDateTimeFormat, getLocaleDayNames, getLocaleDayPeriods,
getLocaleEraNames, getLocaleExtraDayPeriodRules, getLocaleExtraDayPeriods, getLocaleId,
getLocaleMonthNames, getLocaleNumberSymbol, getLocaleTimeFormat,
NumberSymbol, Time, TranslationWidth} from './locale_data_api';\n\nexport const ISO8601_DATE_REGEX =\n/^(\\d{4})-(\\d{\\d})-(\\d{\\d})(?:T(\\d{\\d})(?::(\\d{\\d})(?:\\.(\\d{\\d+}))?)?(Z|([+-])(\\d{\\d})(?:\\d{\\d}))?)?$/;\n// 1
2 3 4 5 6 7 8 9 10 11\nconst NAMED_FORMATS: {[localeId: string]:
{[format: string]: string}} = {};\nconst DATE_FORMATS_SPLIT =\n/((?:[BEGHLMOSWYZabdhmswyz']+)((?:'(?![^"]*)')|(?G{1,5}|y{1,4}|Y{1,4}|M{1,5}|L{1,5}|w{1,2}|W{1}|d{1
,2}|E{1,6}|c{1,6}|a{1,5}|b{1,5}|B{1,5}|h{1,2}|H{1,2}|m{1,2}|s{1,2}|S{1,3}|z{1,4}|Z{1,5}|O{1,4}))/([\\s\\S]*)/;\n\nenum ZoneWidth {\n Short,\n ShortGMT,\n Long,\n Extended\n}\n\nenum DateType {\n FullYear,\n Month,\n Date,\n Hours,\n Minutes,\n Seconds,\n FractionalSeconds,\n Day\n}\n\nenum TranslationType {\n
DayPeriods,\n Days,\n Months,\n Eras\n}\n\n\n/**\n * @ngModule CommonModule\n * @description\n * \n *
Formats a date according
to locale rules.\n * \n * @param value The date to format, as a Date, or a number (milliseconds since UTC epoch)\n
* or an [ISO date-time string](https://www.w3.org/TR/NOTE-datetime).\n * @param format The date-time
components to include. See `DatePipe` for details.\n * @param locale A locale code for the locale format rules to
use.\n * @param timezone The time zone. A time zone offset from GMT (such as `+0430`),\n * or a standard
UTC/GMT or continental US time zone abbreviation.\n * If not specified, uses host system settings.\n * \n *
@returns The formatted date string.\n * \n * @see `DatePipe`\n * @see [Internationalization (i18n)
Guide](https://angular.io/guide/i18n-overview)\n * \n * @publicApi\n * \nexport function formatDate(\n value:
string|number|Date, format: string, locale: string, timezone?: string): string {\n let date = toDate(value);\n const
namedFormat = getNamedFormat(locale, format);\n format = namedFormat || format;\n\n let parts: string[] = [];\n let
match;\n while (format) {\n match = DATE_FORMATS_SPLIT.exec(format);\n if (match) {\n parts =
parts.concat(match.slice(1));\n const part = parts.pop();\n if (!part) {\n break;\n }\n format = part;\n }
else {\n parts.push(format);\n break;\n }\n }\n\n let dateTzOffset = date.getTimezoneOffset();\n if (timezone) {\n dateTzOffset = timezoneToOffset(timezone, dateTzOffset);\n date =
convertTzToLocal(date, timezone, true);\n }\n\n let text = ""; parts.forEach(value => {\n const
dateFormatter = getDateFormatter(value);\n text += dateFormatter ?\n dateFormatter(date, locale,
dateTzOffset) :\n value === "\\\\" ? "\\\" : value.replace(/(\\^|\\$)/g, "").replace(/"/g, "\\");\n });\n\n return
text;\n}\n\n\n/**\n * Create a new Date object with the given date value, and the time set to midnight.\n * \n * We
cannot use `new Date(year, month, date)` because it maps years between 0 and
99 to 1900-1999.\n * See: https://github.com/angular/angular/issues/40377\n * \n * Note that this function returns a
Date object whose time is midnight in the current locale's\n * timezone. In the future we might want to change this

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to be midnight in UTC, but this would be a\n * considerable breaking change.\n */\nfunction createDate(year:
number, month: number, date: number): Date {\n // The `newDate` is set to midnight (UTC) on January 1st 1970.\n
// - In PST this will be December 31st 1969 at 4pm.\n // - In GMT this will be January 1st 1970 at 1am.\n // Note
that they even have different years, dates and months!\n const newDate = new Date(0);\n // `setFullYear()`
allows years like 0001 to be set correctly. This function does not\n // change the internal time of the date.\n //
Consider calling `setFullYear(2019, 8, 20)` (September 20, 2019).\n // - In PST this will now be September 20,
2019 at 4pm\n // - In GMT this will now be September 20, 2019 at 1am\n\n newDate.setFullYear(year,
month, date);\n // We want the final date to be at local midnight, so we reset the time.\n // - In PST this will now
be September 20, 2019 at 12am\n // - In GMT this will now be September 20, 2019 at 12am\n newDate.setHours(0,
0, 0);\n\n return newDate;\n}\n\nfunction getNamedFormat(locale: string, format: string): string {\n const localeId
= getLocaleId(locale);\n NAMED_FORMATS[localeId] = NAMED_FORMATS[localeId] || {};\n\n if
(NAMED_FORMATS[localeId][format]) {\n return NAMED_FORMATS[localeId][format];\n }\n\n let
formatValue = '';\n switch (format) {\n case 'shortDate':\n formatValue = getLocaleDateFormat(locale,
FormatWidth.Short);\n break;\n case 'mediumDate':\n formatValue = getLocaleDateFormat(locale,
FormatWidth.Medium);\n break;\n case 'longDate':\n formatValue = getLocaleDateFormat(locale,
FormatWidth.Long);\n break;\n case 'fullDate':\n formatValue = getLocaleDateFormat(locale,
FormatWidth.Full);\n
break;\n case 'shortTime':\n formatValue = getLocaleTimeFormat(locale, FormatWidth.Short);\n break;\n
case 'mediumTime':\n formatValue = getLocaleTimeFormat(locale, FormatWidth.Medium);\n break;\n
case 'longTime':\n formatValue = getLocaleTimeFormat(locale, FormatWidth.Long);\n break;\n case
'fullTime':\n formatValue = getLocaleTimeFormat(locale, FormatWidth.Full);\n break;\n case 'short':\n
const shortTime = getNamedFormat(locale, 'shortTime');\n const shortDate = getNamedFormat(locale,
'shortDate');\n formatValue = formatDate(\n getLocaleDateTimeFormat(locale, FormatWidth.Short),
[shortTime, shortDate]);\n break;\n case 'medium':\n const mediumTime = getNamedFormat(locale,
'mediumTime');\n const mediumDate = getNamedFormat(locale, 'mediumDate');\n formatValue =
formatDate(\n getLocaleDateTimeFormat(locale, FormatWidth.Medium), [mediumTime,
mediumDate]);\n break;\n
case 'long':\n const longTime = getNamedFormat(locale, 'longTime');\n const longDate =
getNamedFormat(locale, 'longDate');\n formatValue =\n
formatDate(\n getLocaleDateTimeFormat(locale, FormatWidth.Long), [longTime, longDate]);\n break;\n
case 'full':\n const fullTime = getNamedFormat(locale, 'fullTime');\n const fullDate =
getNamedFormat(locale, 'fullDate');\n formatValue =\n
formatDate(\n getLocaleDateTimeFormat(locale, FormatWidth.Full), [fullTime, fullDate]);\n break;\n }\n
if (formatValue) {\n NAMED_FORMATS[localeId][format] = formatValue;\n }\n return formatValue;\n}\n\nfunction
formatDateTime(str: string, opt_values: string[]) {\n if (opt_values) {\n str = str.replace(/\{([^\}]+\})/g,
function(match, key) {\n return (opt_values != null && key in opt_values) ? opt_values[key] : match;\n
});\n }\n return str;\n}\n\nfunction padNumber(\n num: number, digits: number, minusSign = '-', trim?:
boolean, negWrap?: boolean): string {\n let neg = '';\n if (num < 0 || (negWrap && num <= 0)) {\n if (negWrap)
{\n num = -num + 1;\n } else {\n num = -num;\n neg = minusSign;\n }\n }\n let strNum =
String(num);\n while (strNum.length < digits) {\n strNum = '0' + strNum;\n }\n if (trim) {\n strNum =
strNum.substr(strNum.length - digits);\n }\n return neg + strNum;\n}\n\nfunction
formatFractionalSeconds(milliseconds: number, digits: number): string {\n const strMs = padNumber(milliseconds,
3);\n return strMs.substr(0, digits);\n}\n\n/**\n * Returns a date formatter that transforms a date into its locale digit
representation\n */\nfunction dateGetter(\n name: DateType, size: number, offset: number = 0, trim = false,\n negWrap = false): DateFormatter {\n return function(date: Date, locale: string): string {\n let part =
getDatePart(name, date);\n if (offset > 0 || part > -offset) {\n part += offset;\n }\n\n if (name ===
DateType.Hours)

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{\n if (part === 0 && offset === -12) {\n part = 12;\n }\n } else if (name ===
DateType.FractionalSeconds) {\n return formatFractionalSeconds(part, size);\n }\n\n const localeMinus =
getLocaleNumberSymbol(locale, NumberSymbol.MinusSign);\n return padNumber(part, size, localeMinus, trim,
negWrap);\n };\n\n\nfunction getDatePart(part: DateType, date: Date): number {\n switch (part) {\n case
DateType.FullYear:\n return date.getFullYear();\n case DateType.Month:\n return date.getMonth();\n case
DateType.Date:\n return date.getDate();\n case DateType.Hours:\n return date.getHours();\n case
DateType.Minutes:\n return date.getMinutes();\n case DateType.Seconds:\n return date.getSeconds();\n case
DateType.FractionalSeconds:\n return date.getMilliseconds();\n case DateType.Day:\n return
date.getDay();\n default:\n throw new Error(`Unknown DateType value \"${part}\"`);\n }\n}\n\n\n/**\n * Returns a date formatter that transforms a date into its locale string representation\n */\nfunction
dateStrGetter(\n name: TranslationType, width: TranslationWidth, form: FormStyle = FormStyle.Format,\n extended = false): DateFormatter {\n return function(date: Date, locale: string): string {\n return
getDateTranslation(date, locale, name, width, form, extended);\n };\n}\n\n\n/**\n * Returns the locale translation of a
date for a given form, type and width\n */\nfunction getDateTranslation(\n date: Date, locale: string, name:
TranslationType, width: TranslationWidth, form: FormStyle,\n extended: boolean) {\n switch (name) {\n case
TranslationType.Months:\n return getLocaleMonthNames(locale, form, width)[date.getMonth()];\n case
TranslationType.Days:\n return getLocaleDayNames(locale, form, width)[date.getDay()];\n case
TranslationType.DayPeriods:\n const currentHours = date.getHours();\n const currentMinutes =
date.getMinutes();\n\n if (extended) {\n const rules = getLocaleExtraDayPeriodRules(locale);\n const dayPeriods =
getLocaleExtraDayPeriods(locale, form, width);\n const index = rules.findIndex(rule => {\n if
(Array.isArray(rule)) {\n // morning, afternoon, evening, night\n const [from, to] = rule;\n const
afterFrom = currentHours >= from.hours && currentMinutes >= from.minutes;\n const beforeTo =\n(currentHours < to.hours ||\n (currentHours === to.hours && currentMinutes < to.minutes));\n //
We must account for normal rules that span a period during the day (e.g. 6am-9am)\n // where `from` is less
(earlier) than `to`. But also rules that span midnight (e.g.\n // 10pm - 5am) where `from` is greater (later!)\n
than `to`.\n /\n // In the first case the current time must be BOTH after `from` AND before `to`\n
// (e.g. 8am is after 6am\n
AND before 10am).\n /\n // In the second case the current time must be EITHER after `from` OR
before `to`\n // (e.g. 4am is before 5am but not after 10pm; and 11pm is not before 5am but it is\n //
after 10pm).\n if (from.hours < to.hours) {\n if (afterFrom && beforeTo) {\n return true;\n
 }\n } else if (afterFrom || beforeTo) {\n return true;\n }\n }
else {\n // noon or
midnight\n if (rule.hours === currentHours && rule.minutes === currentMinutes) {\n return true;\n
 }\n }\n return false;\n });\n if (index !== -1) {\n return
dayPeriods[index];\n }\n }\n // if no rules for the day periods, we use am/pm by default\n return
getLocaleDayPeriods(locale, form,
<TranslationWidth>width)[currentHours < 12 ? 0 : 1];\n case TranslationType.Eras:\n return
getLocaleEraNames(locale, <TranslationWidth>width)[date.getFullYear() <= 0 ? 0 : 1];\n default:\n // This
default case is not needed by TypeScript compiler, as the switch is exhaustive.\n // However Closure Compiler
does not understand that and reports an error in typed mode.\n // The `throw new Error` below works around the
problem, and the unexpected: never variable\n // makes sure tsc still checks this code is unreachable.\n const
unexpected: never = name;\n throw new Error(`unexpected translation type ${unexpected}`);\n }\n}\n\n\n/**\n *
Returns a date formatter that transforms a date and an offset into a timezone with ISO8601 or\n * GMT format
depending on the width (eg: short = +0430, short:GMT = GMT+4, long = GMT+04:30,\n * extended = +04:30)\n */\nfunction timeZoneGetter(width: ZoneWidth): DateFormatter {\n return function(date: Date, locale: string,
offset: number) {\n const zone = -1 * offset;\n const minusSign = getLocaleNumberSymbol(locale,
NumberSymbol.MinusSign);\n const hours = zone > 0 ? Math.floor(zone / 60) : Math.ceil(zone / 60);\n switch
(width) {\n case ZoneWidth.Short:\n return ((zone >= 0) ? '+' : '-') + padNumber(hours, 2, minusSign) +\n padNumber(Math.abs(zone % 60), 2, minusSign);\n case ZoneWidth.ShortGMT:\n return 'GMT' + ((zone

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 >= 0) ? '+' : '') + padNumber(hours, 1, minusSign);\n case ZoneWidth.Long:\n return 'GMT' + ((zone >= 0) ?
 '+' : '') + padNumber(hours, 2, minusSign) + ':' +\n padNumber(Math.abs(zone % 60), 2, minusSign);\n
 case ZoneWidth.Extended:\n if (offset === 0) {\n return 'Z';\n } else {\n return ((zone >= 0) ? '+'
 : '-') + padNumber(hours, 2, minusSign) + ':' +\n padNumber(Math.abs(zone % 60), 2, minusSign);\n }\n
 default:\n throw new Error('Unknown zone width \'' + width + '\');\n }\n\n\nconst JANUARY =
0;\nconst THURSDAY = 4;\nfunction getFirstThursdayOfYear(year:
number) {\n const firstDayOfYear = createDate(year, JANUARY, 1).getDay();\n return createDate(\n year, 0, 1
+ ((firstDayOfYear <= THURSDAY) ? THURSDAY : THURSDAY + 7) - firstDayOfYear);\n}\n\nfunction
getThursdayThisWeek(datetime: Date) {\n return createDate(\n datetime.getFullYear(), datetime.getMonth(),\n datetime.getDate() + (THURSDAY - datetime.getDay()));\n}\n\nfunction weekGetter(size: number, monthBased =
false): DateFormatter {\n return function(date: Date, locale: string) {\n let result;\n if (monthBased) {\n const
nbDaysBefore1stDayOfMonth =\n new Date(date.getFullYear(), date.getMonth(), 1).getDay() - 1;\n const
today = date.getDate();\n result = 1 + Math.floor((today + nbDaysBefore1stDayOfMonth) / 7);\n } else {\n const thisThurs = getThursdayThisWeek(date);\n // Some days of a year are part of next year according to ISO
8601.\n // Compute the firstThurs from the year of this week's Thursday\n
 const firstThurs = getFirstThursdayOfYear(thisThurs.getFullYear());\n const diff = thisThurs.getTime() -
firstThurs.getTime();\n result = 1 + Math.round(diff / 6.048e8); // 6.048e8 ms per week\n }\n return
padNumber(result, size, getLocaleNumberSymbol(locale, NumberSymbol.MinusSign));\n };\n}\n\n/**\n * Returns
a date formatter that provides the week-numbering year for the input date.\n */\nfunction
weekNumberingYearGetter(size: number, trim = false): DateFormatter {\n return function(date: Date, locale:
string) {\n const thisThurs = getThursdayThisWeek(date);\n const weekNumberingYear =
thisThurs.getFullYear();\n return padNumber(\n weekNumberingYear, size, getLocaleNumberSymbol(locale,
NumberSymbol.MinusSign), trim);\n };\n}\n\ntype DateFormatter = (date: Date, locale: string, offset: number) =>
string;\n\nconst DATE_FORMATS: {[format: string]: DateFormatter} = {};\n\n// Based on CLDR formats:\n// See
complete list: http://www.unicode.org/reports/tr35/tr35-dates.html#Date_Field_Symbol_Table\n//
See also explanations: http://cldr.unicode.org/translation/date-time\n// TODO(ocombe): support all missing cldr
formats: U, Q, D, F, e, j, J, C, A, v, V, X, x\nfunction getDateFormatter(format: string): DateFormatter|null {\n if
(DATE_FORMATS[format]) {\n return DATE_FORMATS[format];\n }\n let formatter;\n switch (format) {\n
// Era name (AD/BC)\n case 'G':\n case 'GG':\n case 'GGG':\n formatter =
dateStrGetter(TranslationType.Eras, TranslationWidth.Abbreviated);\n break;\n case 'GGGG':\n formatter =
dateStrGetter(TranslationType.Eras, TranslationWidth.Wide);\n break;\n case 'GGGGG':\n formatter =
dateStrGetter(TranslationType.Eras, TranslationWidth.Narrow);\n break;\n\n // 1 digit representation of the
year, e.g. (AD 1 => 1, AD 199 => 199)\n case 'y':\n formatter = dateGetter(DateType.FullYear, 1, 0, false,
true);\n break;\n\n // 2 digit representation of
the year, padded (00-99). (e.g. AD 2001 => 01, AD 2010 => 10)\n case 'yy':\n formatter =
dateGetter(DateType.FullYear, 2, 0, true, true);\n break;\n\n // 3 digit representation of the year, padded (000-
999). (e.g. AD 2001 => 001, AD 2010 => 010)\n case 'yyy':\n formatter = dateGetter(DateType.FullYear, 3, 0,
false, true);\n break;\n\n // 4 digit representation of the year (e.g. AD 1 => 0001, AD 2010 => 2010)\n case
'yyyy':\n formatter = dateGetter(DateType.FullYear, 4, 0, false, true);\n break;\n\n // 1 digit representation of
the week-numbering year, e.g. (AD 1 => 1, AD 199 => 199)\n case 'Y':\n formatter =
weekNumberingYearGetter(1);\n break;\n\n // 2 digit representation of the week-numbering year, padded (00-
99). (e.g. AD 2001 => 01, AD\n // 2010 => 10)\n case 'YY':\n formatter = weekNumberingYearGetter(2,
true);\n break;\n\n // 3 digit representation of the week-numbering year, padded (000-999). (e.g. AD 1 =>
001, AD\n // 2010 => 010)\n case 'YYY':\n formatter = weekNumberingYearGetter(3);\n break;\n\n // 4
digit representation of the week-numbering year (e.g. AD 1 => 0001, AD 2010 => 2010)\n case 'YYYY':\n formatter =
weekNumberingYearGetter(4);\n break;\n\n // Month of the year (1-12), numeric\n case 'M':\n case 'L':\n formatter = dateGetter(DateType.Month, 1, 1);\n break;\n case 'MM':\n case 'LL':\n formatter = dateGetter(DateType.Month, 2, 1);\n break;\n\n // Month of the year (January, ...), string, format\n

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case 'MMM':\n formatter = dateStrGetter(TranslationType.Months, TranslationWidth.Abbreviated);\n
break;\n case 'MMMM':\n formatter = dateStrGetter(TranslationType.Months, TranslationWidth.Wide);\n
break;\n case 'MMMMM':\n formatter = dateStrGetter(TranslationType.Months, TranslationWidth.Narrow);\n
break;\n\n // Month of the year (January, ...), string, standalone\n case
'LLL':\n formatter =\n dateStrGetter(TranslationType.Months, TranslationWidth.Abbreviated,
FormStyle.Standalone);\n break;\n case 'LLLL':\n formatter =\n
dateStrGetter(TranslationType.Months, TranslationWidth.Wide, FormStyle.Standalone);\n break;\n case
'LLLLL':\n formatter =\n dateStrGetter(TranslationType.Months, TranslationWidth.Narrow,
FormStyle.Standalone);\n break;\n\n // Week of the year (1, ... 52)\n case 'w':\n formatter =
weekGetter(1);\n break;\n case 'ww':\n formatter = weekGetter(2);\n break;\n\n // Week of the month
(1, ...)\n case 'W':\n formatter = weekGetter(1, true);\n break;\n\n // Day of the month (1-31)\n case 'd':\n
formatter = dateGetter(DateType.Date, 1);\n break;\n case 'dd':\n formatter = dateGetter(DateType.Date,
2);\n break;\n\n // Day of the Week StandAlone (1, 1, Mon, Monday, M, Mo)\n case 'c':\n case 'cc':\n
formatter = dateGetter(DateType.Day, 1);\n break;\n case 'ccc':\n formatter =\n
dateStrGetter(TranslationType.Days, TranslationWidth.Abbreviated, FormStyle.Standalone);\n break;\n case
'cccc':\n formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Wide, FormStyle.Standalone);\n
break;\n case 'cccc':\n formatter =\n dateStrGetter(TranslationType.Days, TranslationWidth.Narrow,
FormStyle.Standalone);\n break;\n case 'ccccc':\n formatter = dateStrGetter(TranslationType.Days,
TranslationWidth.Short, FormStyle.Standalone);\n break;\n\n // Day of the Week\n case 'E':\n case 'EE':\n
case 'EEE':\n formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Abbreviated);\n break;\n
case 'EEEE':\n formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Wide);\n break;\n case
'EEEE':\n formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Narrow);\n
break;\n case 'EEEEEE':\n formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Short);\n
break;\n\n // Generic period of the day (am-pm)\n case 'a':\n case 'aa':\n case 'aaa':\n formatter =
dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Abbreviated);\n break;\n case 'aaaa':\n
formatter = dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Wide);\n break;\n case 'aaaaa':\n
formatter = dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Narrow);\n break;\n\n // Extended
period of the day (midnight, at night, ...), standalone\n case 'b':\n case 'bb':\n case 'bbb':\n formatter =
dateStrGetter(\n TranslationType.DayPeriods, TranslationWidth.Abbreviated, FormStyle.Standalone, true);\n
break;\n case 'bbbb':\n formatter = dateStrGetter(\n TranslationType.DayPeriods,
TranslationWidth.Wide, FormStyle.Standalone, true);\n break;\n
case 'bbbb':\n formatter = dateStrGetter(\n TranslationType.DayPeriods, TranslationWidth.Narrow,
FormStyle.Standalone, true);\n break;\n\n // Extended period of the day (midnight, night, ...), standalone\n
case 'B':\n case 'BB':\n case 'BBB':\n formatter = dateStrGetter(\n TranslationType.DayPeriods,
TranslationWidth.Abbreviated, FormStyle.Format, true);\n break;\n case 'BBBB':\n formatter =\n
dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Wide, FormStyle.Format, true);\n break;\n case
'BBBBB':\n formatter = dateStrGetter(\n TranslationType.DayPeriods, TranslationWidth.Narrow,
FormStyle.Format, true);\n break;\n\n // Hour in AM/PM, (1-12)\n case 'h':\n formatter =
dateGetter(DateType.Hours, 1, -12);\n break;\n case 'hh':\n formatter = dateGetter(DateType.Hours, 2, -
12);\n break;\n\n // Hour of the day (0-23)\n case 'H':\n formatter = dateGetter(DateType.Hours,
1);\n break;\n // Hour in day, padded (00-23)\n case 'HH':\n formatter = dateGetter(DateType.Hours, 2);\n
break;\n\n // Minute of the hour (0-59)\n case 'm':\n formatter = dateGetter(DateType.Minutes, 1);\n
break;\n case 'mm':\n formatter = dateGetter(DateType.Minutes, 2);\n break;\n\n // Second of the minute
(0-59)\n case 's':\n formatter = dateGetter(DateType.Seconds, 1);\n break;\n case 'ss':\n formatter =
dateGetter(DateType.Seconds, 2);\n break;\n\n // Fractional second\n case 'S':\n formatter =
dateGetter(DateType.FractionalSeconds, 1);\n break;\n case 'SS':\n formatter =
dateGetter(DateType.FractionalSeconds, 2);\n break;\n case 'SSS':\n formatter =
dateGetter(DateType.FractionalSeconds, 3);\n break;\n\n\n // Timezone ISO8601 short format (-0430)\n case

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'Z':\n case 'ZZ':\n case 'ZZZ':\n formatter = timeZoneGetter(ZoneWidth.Short);\n break;\n // Timezone ISO8601 extended format (-04:30)\n case 'ZZZZ':\n formatter =\n timeZoneGetter(ZoneWidth.Extended);\n break;\n\n // Timezone GMT short format (GMT+4)\n case 'O':\n case 'OO':\n case 'OOO':\n // Should be location, but fallback to format O instead because we don't have the data yet\n case 'z':\n case 'zz':\n case 'zzz':\n formatter = timeZoneGetter(ZoneWidth.ShortGMT);\n break;\n\n // Timezone GMT long format (GMT+0430)\n case 'OOOO':\n case 'ZZZZ':\n // Should be location, but fallback to format O instead because we don't have the data yet\n case 'zzzz':\n formatter =\n timeZoneGetter(ZoneWidth.Long);\n break;\n default:\n return null;\n }\n DATE_FORMATS[format] =\n formatter;\n return formatter;\n}\n\nfunction timeZoneToOffset(timezone: string, fallback: number): number {\n // Support: IE 11 only, Edge 13-15+\n // IE/Edge do not \"understand\" colon (':') in timezone\n timezone = timezone.replace(/:/g, \"\");\n const requestedTimezoneOffset = Date.parse('Jan 01, 1970 00:00:00 ' +\n timezone) / 60000;\n return isNaN(requestedTimezoneOffset) ? fallback : requestedTimezoneOffset;\n}\n\nfunction addDateMinutes(date: Date, minutes: number) {\n date = new Date(date.getTime());\n date.setMinutes(date.getMinutes() + minutes);\n return date;\n}\n\nfunction convertTimezoneToLocal(date: Date,\n timezone: string, reverse: boolean): Date {\n const reverseValue = reverse ? -1 : 1;\n const dateTimezoneOffset =\n date.getTimezoneOffset();\n const timezoneOffset = timeZoneToOffset(timezone, date.getTimezoneOffset);\n return\n addDateMinutes(date, reverseValue * (timezoneOffset - date.getTimezoneOffset));\n}\n\n/**\n * Converts a value to date.\n * * Supported input formats:\n * * - `Date`\n * * - number: timestamp\n * * - string: numeric (e.g. \"1234\"), ISO and date strings in a format supported by\n * * [Date.parse()](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date/parse).\n * * Note: ISO strings without time return a date without timeoffset.\n * * Throws if unable to convert to a date.\n */\nexport function toDate(value: string|number|Date): Date {\n if (isDate(value)) {\n return value;\n }\n\n if (typeof value === 'number' && !isNaN(value)) {\n return new Date(value);\n }\n\n if (typeof value === 'string') {\n value = value.trim();\n\n if (/^(\\d{4})(-\\d{1,2})(-\\d{1,2})?$/i.test(value)) {\n /* For ISO Strings without time the day, month and year must be extracted from the ISO String before Date creation to avoid time offset and errors in the new Date.\n If we only replace '-' with ',' in the ISO String (\"2015,01,01\"), and try to create a new\n date, some browsers (e.g. IE 9) will throw an invalid Date error.\n If we leave the '-' (\"2015-01-01\") and try to create a new Date(\"2015-01-01\") the timeoffset\n is applied.\n Note: ISO months are 0 for January,\n 1 for February, ... */\n const [y, m = 1, d = 1] = value.split(',').map((val: string) => +val);\n return\n createDate(y, m - 1, d);\n }\n\n const parsedNb = parseFloat(value);\n\n // any string that only contains numbers, like \"1234\" but not like \"1234hello\"\n if (!isNaN(value as any - parsedNb)) {\n return new Date(parsedNb);\n }\n\n let match: RegExpMatchArray|null;\n if (match =\n value.match(ISO8601_DATE_REGEX)) {\n return isoStringToDate(match);\n }\n }\n\n const date = new Date(value as any);\n if (!isDate(date)) {\n throw new Error('Unable to convert \"${value}\" into a date');\n }\n\n return date;\n}\n\n/**\n * Converts a date in ISO8601 to a Date.\n * * Used instead of `Date.parse` because of browser discrepancies.\n */\nexport function isoStringToDate(match: RegExpMatchArray): Date {\n const date = new Date(0);\n let tzHour = 0;\n let tzMin = 0;\n\n // match[8] means that the string contains \"Z\" (UTC) or a timezone like\n\n \"+01:00\" or \"+0100\"\n const dateSetter = match[8] ? date.setUTCFullYear : date.setFullYear;\n const\n timeSetter = match[8] ? date.setUTCHours : date.setHours;\n\n // if there is a timezone defined like \"+01:00\" or\n \"+0100\"\n if (match[9]) {\n tzHour = Number(match[9] + match[10]);\n tzMin = Number(match[9] +\n match[11]);\n }\n\n dateSetter.call(date, Number(match[1]), Number(match[2]) - 1, Number(match[3]));\n const h =\n Number(match[4] || 0) - tzHour;\n const m = Number(match[5] || 0) - tzMin;\n const s = Number(match[6] || 0);\n\n // The ECMAScript specification (https://www.ecma-international.org/ecma-262/5.1/#sec-15.9.1.11)\n // defines that `DateTime` milliseconds should always be rounded down, so that `999.9ms`\n // becomes `999ms`.\n const ms =\n Math.floor(parseFloat('0.' + (match[7] || 0)) * 1000);\n timeSetter.call(date, h, m, s, ms);\n\n return date;\n}\n\nexport function isDate(value: any): value is Date {\n return value instanceof Date &&
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!isNaN(value.valueOf());\n}\n", "/*\n
 * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport
{getLocaleNumberFormat, getLocaleNumberSymbol, getNumberOfCurrencyDigits, NumberFormatStyle,
NumberSymbol} from './locale_data_api';\n\nexport const NUMBER_FORMAT_REGEX = /^(\\d+)?\\.?(\\d+)?(-
(\\d+))?$;/\n\nconst MAX_DIGITS = 22;\nconst DECIMAL_SEP = '.';\nconst ZERO_CHAR = '0';\nconst
PATTERN_SEP = ',';\nconst GROUP_SEP = ',';\nconst DIGIT_CHAR = '#';\nconst CURRENCY_CHAR =
'¤';\nconst PERCENT_CHAR = '%';\n\n/**\n * Transforms a number to a locale string based on a style and a
format.\n *\nfunction formatNumberToLocaleString(\n value: number, pattern: ParsedNumberFormat, locale:
string, groupSymbol: NumberSymbol,\n decimalSymbol: NumberSymbol, digitsInfo?: string, isPercent = false):
string {\n let formattedText = '';\n let isZero = false;\n\n if (!isFinite(value)) {\n formattedText = getLocaleNumberSymbol(locale, NumberSymbol.Infinity);\n } else {\n let parsedNumber = parseNumber(value);\n if (isPercent) {\n parsedNumber = toPercent(parsedNumber);\n }\n\n let minInt = pattern.minInt;\n let minFraction = pattern.minFrac;\n let maxFraction =
pattern.maxFrac;\n\n if (digitsInfo) {\n const parts = digitsInfo.match(NUMBER_FORMAT_REGEX);\n if (parts === null) {\n throw new Error(`${digitsInfo} is not a valid digit info`);\n }\n const minIntPart =
parts[1];\n const minFractionPart = parts[3];\n const maxFractionPart = parts[5];\n if (minIntPart != null) {\n minInt = parseIntAutoRadix(minIntPart);\n }\n if (minFractionPart != null) {\n minFraction =
parseIntAutoRadix(minFractionPart);\n }\n if (maxFractionPart != null) {\n maxFraction =
parseIntAutoRadix(maxFractionPart);\n }\n if (minFractionPart != null &&
minFraction > maxFraction) {\n maxFraction = minFraction;\n }\n roundNumber(parsedNumber,
minFraction, maxFraction);\n let digits = parsedNumber.digits;\n let integerLen = parsedNumber.integerLen;\n const exponent = parsedNumber.exponent;\n let decimals = [];\n isZero = digits.every(d => !d);\n // pad
zeros for small numbers\n for (; integerLen < minInt; integerLen++) {\n digits.unshift(0);\n }\n // pad
zeros for small numbers\n for (; integerLen < 0; integerLen++) {\n digits.unshift(0);\n }\n // extract
decimals digits\n if (integerLen > 0) {\n decimals = digits.splice(integerLen, digits.length);\n } else {\n decimals = digits;\n digits = [0];\n }\n // format the integer digits with grouping separators\n const groups
= [];\n if (digits.length >= pattern.lgSize) {\n groups.unshift(digits.splice(-pattern.lgSize,
digits.length).join("")); \n }\n while (digits.length
> pattern.gSize) {\n groups.unshift(digits.splice(-pattern.gSize, digits.length).join("")); \n }\n if
(digits.length) {\n groups.unshift(digits.join("")); \n }\n formattedText =
groups.join(getLocaleNumberSymbol(locale, groupSymbol));\n // append the decimal digits\n if
(decimals.length) {\n formattedText += getLocaleNumberSymbol(locale, decimalSymbol) + decimals.join("");\n }\n if (exponent) {\n formattedText += getLocaleNumberSymbol(locale, NumberSymbol.Exponential) + '+' +
exponent;\n }\n if (value < 0 && !isZero) {\n formattedText = pattern.negPre + formattedText +
pattern.negSuf;\n } else {\n formattedText = pattern.posPre + formattedText + pattern.posSuf;\n }\n return
formattedText;\n }\n }\n\n /**\n * @ngModule CommonModule\n * @description\n * Formats a number as currency
using locale rules.\n *\n * @param value The number to format.\n * @param locale A locale code for the locale
format rules to use.\n * @param
currency A string containing the currency symbol or its name,\n * such as '$' or 'Canadian Dollar'. Used in
output string, but does not affect the operation\n * of the function.\n * @param currencyCode The [ISO
4217](https://en.wikipedia.org/wiki/ISO_4217)\n * currency code, such as 'USD' for the US dollar and 'EUR' for
the euro.\n * Used to determine the number of digits in the decimal part.\n * @param digitsInfo Decimal
representation options, specified by a string in the following format:\n * `{minIntegerDigits}.{minFractionDigits}-
{maxFractionDigits}`. See `DecimalPipe` for more details.\n *\n * @returns The formatted currency value.\n *\n *
@see `formatNumber`\n * @see `DecimalPipe`\n * @see [Internationalization (i18n)
Guide](https://angular.io/guide/i18n-overview)\n *\n * @publicApi\n */\n\nexport function formatCurrency(\n
value: number, locale: string, currency: string, currencyCode?: string,\n digitsInfo?: string): string {\n const

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format = getLocaleNumberFormat(locale,
 NumberFormatStyle.Currency);\n const pattern = parseNumberFormat(format, getLocaleNumberSymbol(locale,
 NumberSymbol.MinusSign));\n\n pattern.minFrac = getNumberOfCurrencyDigits(currencyCode!);\n
pattern.maxFrac = pattern.minFrac;\n\n const res = formatNumberToLocaleString(\n value, pattern, locale,
 NumberSymbol.CurrencyGroup, NumberSymbol.CurrencyDecimal, digitsInfo);\n return res\n
.replace(CURRENCY_CHAR, currency)\n // if we have 2 time the currency character, the second one is
ignored\n .replace(CURRENCY_CHAR, "")\n // If there is a spacing between currency character and the value
and\n // the currency character is suppressed by passing an empty string, the\n // spacing character would
remain as part of the string. Then we\n // should remove it.\n .trim();\n}\n\n/**\n * @ngModule
CommonModule\n * @description\n *\n * Formats a number as a percentage according to locale rules.\n *\n *
@param value The number to format.\n *\n * @param locale A locale code for the locale format rules to use.\n * @param digitsInfo Decimal representation
options, specified by a string in the following format:\n * `{minIntegerDigits}.{minFractionDigits}-
{maxFractionDigits}`. See `DecimalPipe` for more details.\n *\n * @returns The formatted percentage value.\n *\n *
* @see `formatNumber()`\n * @see `DecimalPipe`\n * @see [Internationalization (i18n)
Guide](https://angular.io/guide/i18n-overview)\n *\n * @publicApi\n *\n */\nexport function formatPercent(value:
number, locale: string, digitsInfo?: string): string {\n const format = getLocaleNumberFormat(locale,
 NumberFormatStyle.Percent);\n const pattern = parseNumberFormat(format, getLocaleNumberSymbol(locale,
 NumberSymbol.MinusSign));\n const res = formatNumberToLocaleString(\n value, pattern, locale,
 NumberSymbol.Group, NumberSymbol.Decimal, digitsInfo, true);\n return res.replace(\n new
RegExp(PERCENT_CHAR, 'g'), getLocaleNumberSymbol(locale, NumberSymbol.PercentSign));\n}\n\n/**\n *
* @ngModule CommonModule\n * @description\n *\n * Formats a number as text, with group sizing, separator,
and other\n * parameters based on the locale.\n *\n * @param value The number to format.\n * @param locale A
locale code for the locale format rules to use.\n * @param digitsInfo Decimal representation options, specified by a
string in the following format:\n * `{minIntegerDigits}.{minFractionDigits}-{maxFractionDigits}`. See
`DecimalPipe` for more details.\n *\n * @returns The formatted text string.\n *\n * @see [Internationalization (i18n)
Guide](https://angular.io/guide/i18n-overview)\n *\n * @publicApi\n *\n */\nexport function formatNumber(value:
number, locale: string, digitsInfo?: string): string {\n const format = getLocaleNumberFormat(locale,
 NumberFormatStyle.Decimal);\n const pattern = parseNumberFormat(format, getLocaleNumberSymbol(locale,
 NumberSymbol.MinusSign));\n return formatNumberToLocaleString(\n value, pattern, locale,
 NumberSymbol.Group, NumberSymbol.Decimal,
 digitsInfo);\n}\n\ninterface ParsedNumberFormat {\n minInt: number;\n // the minimum number of digits required
in the fraction part of the number\n minFrac: number;\n // the maximum number of digits required in the fraction
part of the number\n maxFrac: number;\n // the prefix for a positive number\n posPre: string;\n // the suffix for a
positive number\n posSuf: string;\n // the prefix for a negative number (e.g. `^-` or `^`)\n negPre: string;\n // the
suffix for a negative number (e.g. `^-`)\n negSuf: string;\n // number of digits in each group of separated digits\n
gSize: number;\n // number of digits in the last group of digits before the decimal separator\n lgSize:
number;\n}\n\nfunction parseNumberFormat(format: string, minusSign = '-'): ParsedNumberFormat {\n const p =
{\n minInt: 1,\n minFrac: 0,\n maxFrac: 0,\n posPre: "",\n posSuf: "",\n negPre: "",\n negSuf: "",\n gSize:
0,\n lgSize: 0\n };\n\n const patternParts = format.split(PATTERN_SEP);\n
const positive = patternParts[0];\n const negative = patternParts[1];\n\n const positiveParts =
positive.indexOf(DECIMAL_SEP) !== -1 ?\n positive.split(DECIMAL_SEP) : [\n positive.substring(0,
positive.lastIndexOf(ZERO_CHAR) + 1),\n positive.substring(positive.lastIndexOf(ZERO_CHAR) + 1)\n
],\n integer = positiveParts[0], fraction = positiveParts[1] || "";\n\n p.posPre = integer.substr(0,
integer.indexOf(DIGIT_CHAR));\n\n for (let i = 0; i < fraction.length; i++) {\n const ch = fraction.charAt(i);\n
if (ch === ZERO_CHAR) {\n p.minFrac = p.maxFrac = i + 1;\n } else if (ch === DIGIT_CHAR) {\n
p.maxFrac = i + 1;\n } else {\n p.posSuf += ch;\n }\n }\n\n const groups = integer.split(GROUP_SEP);\n
p.gSize = groups[1] ? groups[1].length : 0;\n p.lgSize = (groups[2] || groups[1]) ? (groups[2] || groups[1]).length :

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0;\n\n if (negative) {\n const trunkLen = positive.length - p.posPre.length
 - p.posSuf.length;\n pos = negative.indexOf(DIGIT_CHAR);\n p.negPre = negative.substr(0,
pos).replace(/'g, ");\n p.negSuf = negative.substr(pos + trunkLen).replace(/'g, ");\n } else {\n p.negPre =
minusSign + p.posPre;\n p.negSuf = p.posSuf;\n } }\n\n return p;\n}\n\ninterface ParsedNumber {\n // an array of
digits containing leading zeros as necessary\n digits: number[];\n // the exponent for numbers that would need more
than `MAX_DIGITS` digits in `d`\n exponent: number;\n // the number of the digits in `d` that are to the left of the
decimal point\n integerLen: number;\n}\n\n// Transforms a parsed number into a percentage by multiplying it by
100\nfunction toPercent(parsedNumber: ParsedNumber): ParsedNumber {\n // if the number is 0, don't do
anything\n if (parsedNumber.digits[0] === 0) {\n return parsedNumber;\n } }\n\n // Getting the current number of
decimals\n const fractionLen = parsedNumber.digits.length - parsedNumber.integerLen;\n
 if (parsedNumber.exponent) {\n parsedNumber.exponent += 2;\n } else {\n if (fractionLen === 0) {\n
parsedNumber.digits.push(0, 0);\n } else if (fractionLen === 1) {\n parsedNumber.digits.push(0);\n }\n
 parsedNumber.integerLen += 2;\n }\n\n return parsedNumber;\n}\n\n/**\n * Parses a number.\n * Significant bits
of this parse algorithm came from https://github.com/MikeMcl/big.js/\n */\nfunction parseNumber(num: number):
ParsedNumber {\n let numStr = Math.abs(num) + ";\n let exponent = 0, digits, integerLen;\n let i, j, zeros;\n\n //
Decimal point?\n if ((integerLen = numStr.indexOf(DECIMAL_SEP)) > -1) {\n numStr =
numStr.replace(DECIMAL_SEP, ");\n }\n\n // Exponential form?\n if ((i = numStr.search(/e/i)) > 0) {\n // Work
out the exponent.\n if (integerLen < 0) integerLen = i;\n integerLen += +numStr.slice(i + 1);\n numStr =
numStr.substring(0, i);\n } else if (integerLen < 0) {\n // There was no decimal point or exponent so it is
an integer.\n integerLen = numStr.length;\n }\n\n // Count the number of leading zeros.\n for (i = 0;
numStr.charAt(i) === ZERO_CHAR; i++) { /* empty */\n }\n\n if (i === (zeros = numStr.length)) {\n // The
digits are all zero.\n digits = [0];\n integerLen = 1;\n } else {\n // Count the number of trailing zeros\n zeros-
;\n while (numStr.charAt(zeros) === ZERO_CHAR) zeros--;\n\n // Trailing zeros are insignificant so ignore
them\n integerLen -= i;\n digits = [];\n // Convert string to array of digits without leading/trailing zeros.\n for
(j = 0; i <= zeros; i++, j++) {\n digits[j] = Number(numStr.charAt(i));\n }\n }\n\n // If the number overflows
the maximum allowed digits then use an exponent.\n if (integerLen > MAX_DIGITS) {\n digits = digits.splice(0,
MAX_DIGITS - 1);\n exponent = integerLen - 1;\n integerLen = 1;\n }\n\n return {digits, exponent,
integerLen};\n}\n\n/**\n * Round the parsed number to the specified number
of decimal places\n * This function changes the parsedNumber in-place\n */\nfunction
roundNumber(parsedNumber: ParsedNumber, minFrac: number, maxFrac: number) {\n if (minFrac > maxFrac) {\n
 throw new Error(`The minimum number of digits after fraction (${minFrac}) is higher than the maximum
(${maxFrac}).`);\n }\n\n let digits = parsedNumber.digits;\n let fractionLen = digits.length -
parsedNumber.integerLen;\n const fractionSize = Math.min(Math.max(minFrac, fractionLen), maxFrac);\n\n //
The index of the digit to where rounding is to occur\n let roundAt = fractionSize + parsedNumber.integerLen;\n let
digit = digits[roundAt];\n\n if (roundAt > 0) {\n // Drop fractional digits beyond `roundAt`\n
 digits.splice(Math.max(parsedNumber.integerLen, roundAt));\n\n // Set non-fractional digits beyond `roundAt` to
0\n for (let j = roundAt; j < digits.length; j++) {\n digits[j] = 0;\n }\n } else {\n // We rounded to zero so
reset the parsedNumber\n
 fractionLen = Math.max(0, fractionLen);\n parsedNumber.integerLen = 1;\n digits.length = Math.max(1,
roundAt = fractionSize + 1);\n digits[0] = 0;\n for (let i = 1; i < roundAt; i++) digits[i] = 0;\n }\n\n if (digit >=
5) {\n if (roundAt - 1 < 0) {\n for (let k = 0; k > roundAt; k--) {\n digits.unshift(0);\n
 }\n parsedNumber.integerLen++;\n }\n digits.unshift(1);\n parsedNumber.integerLen++;\n } else {\n
 digits[roundAt - 1]++;\n }\n }\n\n // Pad out with zeros to get the required fraction length\n for (; fractionLen <
Math.max(0, fractionSize); fractionLen++) digits.push(0);\n\n let dropTrailingZeros = fractionSize !== 0;\n //
Minimal length = nb of decimals required + current nb of integers\n // Any number besides that is optional and can
be removed if it's a trailing 0\n const minLen = minFrac + parsedNumber.integerLen;\n // Do any carrying, e.g. a
digit was rounded up to 10\n const carry = digits.reduceRight(function(carry,

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d, i, digits) {\n d = d + carry;\n digits[i] = d < 10 ? d : d - 10; // d % 10\n if (dropTrailingZeros) {\n // Do
not keep meaningless fractional trailing zeros (e.g. 15.52000 --> 15.52)\n if (digits[i] === 0 && i >= minLen) {\n
 digits.pop();\n } else {\n dropTrailingZeros = false;\n }\n }\n return d >= 10 ? 1 : 0; //
Math.floor(d / 10);\n }, 0);\n if (carry) {\n digits.unshift(carry);\n parsedNumber.integerLen++;\n
 }\n}\n\nexport function parseIntAutoRadix(text: string): number {\n const result: number = parseInt(text);\n if
(isNaN(result)) {\n throw new Error('Invalid integer literal when parsing ' + text);\n }\n return result;\n}\n\n", /**\n
* @license\n* Copyright Google LLC All Rights Reserved.\n* \n* Use of this source code is governed by an MIT-
style license that can be\n* found in the LICENSE file at https://angular.io/license\n* \n\nimport {Inject,
Injectable, LOCALE_ID} from '@angular/core';\n\nimport
 {getLocalePluralCase, Plural} from './locale_data_api';\n\n/**\n* @publicApi\n* \n* @Injectable({\n providedIn:
'root',\n useFactory: (locale: string) => new NgLocaleLocalization(locale),\n deps: [LOCALE_ID],\n})\nexport
abstract class NgLocalization {\n abstract getPluralCategory(value: any, locale?: string): string;\n}\n\n/**\n*
Returns the plural category for a given value.\n* - \"=value\" when the case exists,\n* - the plural category
otherwise\n* \nexport function getPluralCategory(\n value: number, cases: string[], ngLocalization:
NgLocalization, locale?: string): string {\n let key = `=${value}`;\n\n if (cases.indexOf(key) > -1) {\n return
key;\n }\n\n key = ngLocalization.getPluralCategory(value, locale);\n\n if (cases.indexOf(key) > -1) {\n return
key;\n }\n\n if (cases.indexOf('other') > -1) {\n return 'other';\n }\n\n throw new Error(`No plural message found
for value \"${value}\"`);\n}\n\n/**\n* Returns the plural case based on the locale\n
* \n* @publicApi\n* \n* @Injectable()\nexport class NgLocaleLocalization extends NgLocalization {\n
 constructor(@Inject(LOCALE_ID) protected locale: string) {\n super();\n }\n\n override
getPluralCategory(value: any, locale?: string): string {\n const plural = getLocalePluralCase(locale ||
this.locale)(value);\n\n switch (plural) {\n case Plural.Zero:\n return 'zero';\n case Plural.One:\n
 return 'one';\n case Plural.Two:\n return 'two';\n case Plural.Few:\n return 'few';\n case
Plural.Many:\n return 'many';\n default:\n return 'other';\n }\n }\n}\n\n", /**\n
* @license\n* Copyright Google LLC All Rights Reserved.\n* \n* Use of this source code is governed by an MIT-style license that can be\n
* found in the LICENSE file at https://angular.io/license\n* \n\nimport {registerLocaleData} from
'@angular/core';\n\n/**\n* Register global data to be used internally by Angular. See the\n* [\"I18n
guide\"](guide/i18n-common-format-data-locale)
to know how to import additional locale\n* data.\n* \n* The signature registerLocaleData(data: any, extraData?:
any) is deprecated since v5.1\n* \n* @publicApi\n* \nexport function registerLocaleData(data: any, localeId?:
string|any, extraData?: any): void {\n return registerLocaleData(data, localeId, extraData);\n}\n\n", /**\n
* @license\n* Copyright Google LLC All Rights Reserved.\n* \n* Use of this source code is governed by an MIT-
style license that can be\n* found in the LICENSE file at https://angular.io/license\n* \n\nexport function
parseCookieValue(cookieStr: string, name: string): string|null {\n name = encodeURIComponent(name);\n for
(const cookie of cookieStr.split(';')) {\n const eqIndex = cookie.indexOf('=);\n const [cookieName,
cookieValue]: string[] =\n eqIndex == -1 ? [cookie, \"\"] : [cookie.slice(0, eqIndex), cookie.slice(eqIndex + 1)];\n
 if (cookieName.trim() === name) {\n return decodeURIComponent(cookieValue);\n
 }\n }\n return null;\n}\n\n", /**\n* @license\n* Copyright Google LLC All Rights Reserved.\n* \n* Use of this
source code is governed by an MIT-style license that can be\n* found in the LICENSE file at
https://angular.io/license\n* \n\nimport {Directive, DoCheck, ElementRef, Input, IterableChanges, IterableDiffer,
IterableDiffers, KeyValueChanges, KeyValueDiffer, KeyValueDiffers, Renderer2, isListLikeIterable as
isListLikeIterable, stringify as stringify} from '@angular/core';\n\ninterface NgClassSupportedTypes =
string[]|Set<string>|{[klass: string]: any}|null|undefined;\n\n/**\n* @ngModule CommonModule\n* \n*
@usageNotes\n* ``\n* <some-element [ngClass]=\"\"first second\"\">...</some-element>\n* \n* <some-
element [ngClass]=\"['first', 'second']\">...</some-element>\n* \n* <some-element [ngClass]=\"{'first': true,
'second': true, 'third': false}\">...</some-element>\n* \n* <some-element
[ngClass]=\"stringExp|arrayExp|objExp\">...</some-element>\n

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*\n * <some-element [ngClass]="{'class1 class2 class3' : true}">...</some-element>\n * ``\n *\n *
@description\n *\n * Adds and removes CSS classes on an HTML element.\n *\n * The CSS classes are updated as
follows, depending on the type of the expression evaluation:\n * - `string` - the CSS classes listed in the string
(space delimited) are added,\n * - `Array` - the CSS classes declared as Array elements are added,\n * - `Object` -
keys are CSS classes that get added when the expression given in the value\n * evaluates to a truthy value,
otherwise they are removed.\n *\n * @publicApi\n *^@Directive({selector: '[ngClass]'})\nexport class NgClass
implements DoCheck {\n private _iterableDiffer: IterableDiffer<string>|null = null;\n private _keyValueDiffer:
KeyValueDiffer<string, any>|null = null;\n private _initialClasses: string[] = [];\n private _rawClass:
NgClassSupportedTypes = null;\n\n constructor(\n private _iterableDiffer: IterableDiffer, private
_keyValueDiffer: KeyValueDiffer,\n private _ngEl: ElementRef, private _renderer: Renderer2) {\n\n\n @Input('class')\n set klass(value: string) {\n this._removeClasses(this._initialClasses);\n this._initialClasses =
typeof value === 'string' ? value.split(/\s+/) : [];\n this._applyClasses(this._initialClasses);\n
this._applyClasses(this._rawClass);\n }\n\n @Input('ngClass')\n set ngClass(value:
string|string[]|Set<string>|{[klass: string]: any}) {\n this._removeClasses(this._rawClass);\n
this._applyClasses(this._initialClasses);\n\n this._iterableDiffer = null;\n this._keyValueDiffer = null;\n\n
this._rawClass = typeof value === 'string' ? value.split(/\s+/) : value;\n\n if (this._rawClass) {\n if
(isListLikeIterable(this._rawClass)) {\n this._iterableDiffer =
this._iterableDiffer.find(this._rawClass).create();\n } else {\n this._keyValueDiffer =
this._keyValueDiffer.find(this._rawClass).create();\n }\n\n }\n\n ngDoCheck() {\n if (this._iterableDiffer) {\n const iterableChanges =
this._iterableDiffer.diff(this._rawClass as string[]);\n if (iterableChanges) {\n
this._applyIterableChanges(iterableChanges);\n }\n } else if (this._keyValueDiffer) {\n const
keyValueChanges = this._keyValueDiffer.diff(this._rawClass as {[k: string]: any});\n if (keyValueChanges) {\n
this._applyKeyValueChanges(keyValueChanges);\n }\n }\n }\n\n private
_applyKeyValueChanges(changes: KeyValueChanges<string, any>): void {\n
changes.forEachAddedItem((record) => this._toggleClass(record.key, record.currentValue));\n
changes.forEachChangedItem((record) => this._toggleClass(record.key, record.currentValue));\n
changes.forEachRemovedItem((record) => {\n if (record.previousValue) {\n this._toggleClass(record.key,
false);\n }\n });\n }\n\n private _applyIterableChanges(changes: IterableChanges<string>): void {\n
changes.forEachAddedItem((record)
=> {\n if (typeof record.item === 'string') {\n this._toggleClass(record.item, true);\n } else {\n throw
new Error(`NgClass can only toggle CSS classes expressed as strings, got ${\n          stringify(record.item)}`);\n }\n });\n\n changes.forEachRemovedItem((record) => this._toggleClass(record.item, false));\n }\n\n /**\n *
Applies a collection of CSS classes to the DOM element.\n *\n * For argument of type Set and Array CSS class
names contained in those collections are always\n * added.\n * For argument of type Map CSS class name in the
map's key is toggled based on the value (added\n * for truthy and removed for falsy).\n */\n private
_applyClasses(rawClassVal: NgClassSupportedTypes) {\n if (rawClassVal) {\n if (Array.isArray(rawClassVal)
|| rawClassVal instanceof Set) {\n (<any>rawClassVal).forEach((klass: string) => this._toggleClass(klass,
true));\n } else {\n Object.keys(rawClassVal).forEach(klass
=> this._toggleClass(klass, !!rawClassVal[klass]));\n }\n }\n }\n\n /**\n * Removes a collection of CSS
classes from the DOM element. This is mostly useful for cleanup\n * purposes.\n */\n private
_removeClasses(rawClassVal: NgClassSupportedTypes) {\n if (rawClassVal) {\n if
(Array.isArray(rawClassVal) || rawClassVal instanceof Set) {\n (<any>rawClassVal).forEach((klass: string) =>
this._toggleClass(klass, false));\n } else {\n Object.keys(rawClassVal).forEach(klass =>
this._toggleClass(klass, false));\n }\n }\n }\n\n private _toggleClass(klass: string, enabled: boolean): void {\n
klass = klass.trim();\n if (klass) {\n klass.split(/\s+/g).forEach(klass => {\n if (enabled) {\n
this._renderer.addClass(this._ngEl.nativeElement, klass);\n } else {\n
this._renderer.removeClass(this._ngEl.nativeElement, klass);\n }\n });\n }\n }\n\n /**\n * @license\n *

```



Copyright Google LLC All Rights Reserved.\n \* \n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at <https://angular.io/license>\n \* \n \n import { ComponentFactoryResolver, ComponentRef, Directive, Injector, Input, NgModuleFactory, NgModuleRef, OnChanges, OnDestroy, SimpleChanges, StaticProvider, Type, ViewContainerRef } from '@angular/core';\n \n \n /\*\*\n \* Instantiates a {@link Component} type and inserts its Host View into the current View.\n \* `NgComponentOutlet` provides a declarative approach for dynamic component creation.\n \* `NgComponentOutlet` requires a component type, if a falsy value is set the view will clear and\n \* any existing component will be destroyed.\n \* \n \* @usageNotes\n \* \n \* ### Fine tune control\n \* \n \* You can control the component creation process by using the following optional attributes:\n \* \n \* `\*` `ngComponentOutletInjector`: Optional custom {@link Injector} that will be used as parent for\n \* the Component.

```
injector: injectorExpression;\n * content: contentNodesExpression;\n">\n * </ng-container>\n * ```\n * \n * Customized NgModuleFactory\n * ```\n * <ng-container
```

```
example\n *\n * {@example common/ngComponentOutlet/ts/module.ts region='SimpleExample'}\n *\n * A more complete example with additional options:\n *\n * {@example common/ngComponentOutlet/ts/module.ts
```

```

TODO(issue/24571): remove '!.\n @Input() ngComponentOutlet!: Type<any>;\n // TODO(issue/24571): remove
!\n @Input() ngComponentOutletInjector!: Injector;\n // TODO(issue/24571): remove '!.\n @Input()

```

```
ComponentRef<any>|null = null;\n private _moduleRef: NgModuleRef<any>|null = null;\n\n constructor(private\n _viewContainerRef: ViewContainerRef) {} \n\n /** @nodoc */\n ngOnChanges(changes: SimpleChanges) {\n this._viewContainerRef.clear();\n
```

```
(changes['ngComponentOutletNgModuleFactory']) {\n if (this._moduleRef) this._moduleRef.destroy();\n\n if (this.ngComponentOutletNgModuleFactory) {\n const parentModule = elInjector.get(NgModuleRef);\n
```

```
this._moduleRef = this.ngComponentOutletNgModuleFactory.create(parentModule.injector);\n } else {\nthis._moduleRef = null;\n }\n\n const componentFactoryResolver = this._moduleRef ?
```

```
this._moduleRef.componentFactoryResolver : \n
elInjector.get(ComponentFactoryResolver); \n \n const componentFactory = \n
```

```
componentFactoryResolver.resolveComponentFactory(this.ngComponentOutlet);\n\n this._componentRef =
 this._viewContainerRef.createComponent(\n
```

```
componentFactory, this._viewContainerRef.length, elInjector,\n this.ngComponentOutletContent);\n }\n\n /** @nodoc */\n ngOnDestroy() {\n if (this._moduleRef) {\n this._moduleRef.destroy();\n }\n }\n}
```

```
@license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-
style license that can be found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive,
```

```
DoCheck, EmbeddedViewRef, Input, IterableChangeRecord, IterableChanges, IterableDiffer, IterableDiffers,
NgIterable, TemplateRef, TrackByFunction, ViewContainerRef} from '@angular/core';\n\nimport {Directive, ElementRef, EventEmitter, HostBinding, HostListener, Inject, InjectionToken, NgModule, NgZone,
```

```
*\nexport class NgForOfContext<T, U extends NgIterable<T> = NgIterable<T>> {\n constructor(public $implicit:
```

T, public ngForOf: U, public index: number, public count: number) {}  
 get first(): boolean {  
 return this.index === 0;  
 }  
 get last(): boolean {  
 return this.index === this.count - 1;  
 }  
 get even(): boolean {  
 return this.index % 2 === 0;  
 }  
 get odd(): boolean {  
 return !this.even;  
 }  
 }

A [structural directive](guide/structural-directives) that renders a template for each item in a collection. The directive is placed on an element, which becomes the parent of the cloned templates. The `ngForOf` directive is generally used in the [shorthand form](guide/structural-directives#asterisk) `*ngFor`. In this form, the template to be rendered for each iteration is the content of an anchor element containing the directive. The following example shows the shorthand syntax with some options, contained in an `<li>` element.

```
*ngFor="let item of items; index as i; trackBy: trackByFn">...
```

The shorthand form expands into a long form that uses the `ngForOf` selector on an `<ng-template>` element. The content of the `<ng-template>` element is the `<li>` element that held the short-form directive.

Here is the expanded version of the short-form example.

```
<ng-template ngFor let-item [ngForOf]="items" let-i="index" [ngForTrackBy]="trackByFn">
 ...
</ng-template>
```

Angular automatically expands the shorthand syntax as it compiles the template. The context for each embedded view is logically merged to the current component context according to its lexical position. When using the shorthand syntax, Angular allows only [one structural directive on an element](guide/built-in-directives#one-per-element). If you want to iterate conditionally, for example, put the `*ngIf` on a container element that wraps the `*ngFor` element. For further discussion, see [Structural Directives](guide/built-in-directives#one-per-element).

@usageNotes

#### Local variables

`*ngForOf` provides exported values that can be aliased to local variables. For example:

```
*ngFor="let user of users; index as i; first as isFirst">
 {{i}} / {{users.length}}. {{user}}
default
```

The following exported values can be aliased to local variables:

- `$implicit: T`: The value of the individual items in the iterable (`ngForOf`).
- `ngForOf: NgIterable<T>`: The value of the iterable expression. Useful when the expression is more complex than a property access, for example when using the async pipe (`userStreams | async`).
- `index: number`: The index of the current item in the iterable.
- `count: number`: The length of the iterable.
- `first: boolean`: True when the item is the first item in the iterable.
- `last: boolean`: True when the item is the last item in the iterable.
- `even: boolean`: True when the item has an even index in the iterable.
- `odd: boolean`: True when the item has an odd index in the iterable.

#### Change propagation

When the contents of the iterator changes, `NgForOf` makes the corresponding changes to the DOM:

- When an item is added, a new instance of the template is added to the DOM.
- When an item is removed, its template instance is removed from the DOM.
- When items are reordered, their respective templates are reordered in the DOM.

Angular uses object identity to track insertions and deletions within the iterator and reproduce those changes in the DOM. This has important implications for animations and any stateful controls that are present, such as `<input>` elements that accept user input. Inserted rows can be animated in, deleted rows can be animated out, and unchanged rows retain any unsaved state such as user input. For more on animations, see [Transitions and Triggers](guide/transition-and-triggers).

The identities of elements in the iterator can change while the data does not. This can happen, for example, if the iterator is produced from an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response produces objects with different identities, and Angular must tear down the entire DOM and rebuild it (as if all old elements were deleted and all new elements inserted). To avoid this expensive operation, you can customize the default tracking algorithm by supplying the `trackBy` option to `NgForOf`.

`trackBy` takes a function that has two arguments: `index` and `item`. If `trackBy` is given, Angular tracks changes by the return value of the function.

@see [Structural Directives](guide/structural-directives)

@ngModule CommonModule

@publicApi

@Directive({selector: '[ngFor][ngForOf]'})  
 export class NgForOf<T, U> extends NgIterable<T> = NgIterable<T> {  
 implements DoCheck {  
 /\*\*  
 \* The value of the iterable expression, which can be used as a [template input variable](guide/structural-directives#shorthand).  
 \*/  
 }  
 }  
 }

```

*/\n @Input()\n set ngForOf(ngForOf: U&NgIterable<T>|undefined|null) {\n this._ngForOf = ngForOf;\n this._ngForOfDirty = true;\n }\n /**\n * Specifies a custom `TrackByFunction` to compute the identity of items in\n * an iterable.\n * \n * If a custom `TrackByFunction` is not provided, `NgForOf` will use the item's [object\n * identity](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object/is)\n * as the key.\n * \n * `NgForOf` uses the computed key to associate items in an iterable with DOM elements\n * it produces for these items.\n * \n * A custom `TrackByFunction` is useful to provide good user experience in cases\n * when items in an\n * iterable rendered using `NgForOf` have a natural identifier (for example, custom ID or a\n * primary key), and this iterable could be updated with new object instances that still\n * represent the same underlying entity (for example, when data is re-fetched from the server,\n * and the iterable is recreated and re-rendered, but most of the data is still the same).\n * \n * @see `TrackByFunction`\n */\n @Input()\n set ngForTrackBy(fn: TrackByFunction<T>) {\n if ((typeof ngDevMode === 'undefined' ||\n ngDevMode) && fn !== null && typeof fn !== 'function') {\n // TODO(vicb): use a log service once there is a\n public one available\n if (<any>console && <any>console.warn) {\n console.warn(`trackBy must\n      be a function, but received ${JSON.stringify(fn)}.` +\n `See\n      https://angular.io/api/common/NgForOf#change-propagation for more information.`);\n }\n }\n this._trackByFn = fn;\n }\n\n get ngForTrackBy(): TrackByFunction<T> {\n return this._trackByFn;\n }\n\n private _ngForOf: U|undefined|null = null;\n private _ngForOfDirty: boolean = true;\n private _differ:\n IterableDiffer<T>|null = null;\n // TODO(issue/24571): remove '!'.\n private _trackByFn!:\n TrackByFunction<T>;\n\n constructor(\n private _viewContainer:\n ViewContainerRef,\n private _template: TemplateRef<NgForOfContext<T, U>>, private _differs:\n IterableDiffers) {\n /**\n * A reference to the template that is stamped out for each item in the iterable.\n * \n * @see [template reference variable](guide/template-reference-variables)\n */\n @Input()\n set\n ngForTemplate(value: TemplateRef<NgForOfContext<T, U>>) {\n // TODO(TS2.1): make\n TemplateRef<Partial<NgForRowOf<T>>> once we move to TS v2.1\n // The current type is too restrictive; a\n template that just uses index, for example,\n // should be acceptable.\n if (value) {\n this._template = value;\n }\n }\n /**\n * Applies the changes when needed.\n * \n * @nodoc\n */\n ngDoCheck(): void {\n if\n (this._ngForOfDirty) {\n this._ngForOfDirty = false;\n // React on ngForOf changes only once all inputs have\n been initialized\n const value = this._ngForOf;\n if (!this._differ && value) {\n if (typeof ngDevMode\n === 'undefined'\n || ngDevMode) {\n try {\n // CAUTION: this logic is duplicated for production mode below, as the try-\n catch\n // is only present in development builds.\n this._differ =\n this._differs.find(value).create(this.ngForTrackBy);\n } catch {\n throw new Error(`Cannot find a differ\n            supporting object '${value}' of type '${\n            getTypeName(value)}'. NgFor only supports binding to Iterables\n            such as Arrays.`);\n }\n } else {\n // CAUTION: this logic is duplicated for development mode\n above, as the try-catch\n // is only present in development builds.\n this._differ =\n this._differs.find(value).create(this.ngForTrackBy);\n }\n }\n if (this._differ) {\n const changes =\n this._differ.diff(this._ngForOf);\n if (changes) this._applyChanges(changes);\n }\n }\n\n private\n _applyChanges(changes: IterableChanges<T>) {\n const viewContainer = this._viewContainer;\n changes.forEachOperation(\n (item: IterableChangeRecord<T>, adjustedPreviousIndex: number|null,\n currentIndex: number|null) => {\n if (item.previousIndex == null) {\n // NgForOf is never \"null\" or\n \"undefined\" here because the differ detected\n // that a new item needs to be inserted from the iterable. This\n implies that\n // there is an iterable value for \"_ngForOf\".\n viewContainer.createEmbeddedView(\n this._template, new NgForOfContext<T, U>(item.item, this._ngForOf!, -1, -1),\n currentIndex ===\n null ? undefined : currentIndex);\n } else if (currentIndex == null) {\n viewContainer.remove(\n adjustedPreviousIndex === null ? undefined : adjustedPreviousIndex);\n } else if (adjustedPreviousIndex !==\n null) {\n const view = viewContainer.get(adjustedPreviousIndex!);\n viewContainer.move(view,\n currentIndex);\n }\n }\n);\n }\n }\n}

```

```

 applyViewChange(view as EmbeddedViewRef<NgForOfContext<T, U>>, item);\n }\n });\n\n for (let i = 0, ilen = viewContainer.length; i < ilen; i++) {\n const viewRef =\n <EmbeddedViewRef<NgForOfContext<T, U>>>viewContainer.get(i);\n const context = viewRef.context;\n context.index = i;\n context.count = ilen;\n context.ngForOf = this._ngForOf!;\n }\n\n changes.forEachIdentityChange((record: any) => {\n const viewRef = <EmbeddedViewRef<NgForOfContext<T,\n U>>>viewContainer.get(record.currentIndex);\n applyViewChange(viewRef, record);\n });\n}\n\n/**\n * Asserts the correct type of the context for the template that `NgForOf` will render.\n * The presence of this method is a signal to the Ivy template type-check compiler that the\n * `NgForOf` structural directive renders its template with a specific context type.\n */\nstatic ngTemplateContextGuard<T, U extends NgIterable<T>>(dir:\nNgForOf<T, U>, ctx:

```

```

any):\n ctx is NgForOfContext<T, U> {\n return true;\n }\n}\n\nfunction applyViewChange<T>(\n view:\n EmbeddedViewRef<NgForOfContext<T>>, record: IterableChangeRecord<T>) {\n view.context.$implicit =\n record.item;\n}\n\nfunction getTypeName(type: any): string {\n return type['name'] || typeof type;\n}\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-\n * style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive,\n EmbeddedViewRef, Input, TemplateRef, ViewContainerRef, stringify as stringify} from '@angular/core';\n\n/**\n * A structural directive that conditionally includes a template based on the value of\n * an expression coerced to Boolean.\n * When the expression evaluates to true, Angular renders the template\n * provided in a `then` clause, and when false or null,\n * Angular renders the template provided in an optional `else` clause. The default\n * template for the `else` clause is blank.\n * A [shorthand form](guide/structural-directives#asterisk) of the\n * directive,\n * `*ngIf="condition"`, is generally used, provided\n * as an attribute of the anchor element for the inserted template.\n * Angular expands this into a more explicit version, in which the anchor element\n * is contained in an `` element.\n * Simple form with shorthand syntax:\n * ``\n * <div\n * ngIf="condition">Content to render when condition is true.</div>\n * ``\n * Simple form with expanded\n * syntax:\n * ``\n * <ng-template [ngIf]="condition"><div>Content to render when condition is\n * true.</div></ng-template>\n * ``\n * Form with an "else" block:\n * ``\n * <div *ngIf="condition; else\n * elseBlock">Content to render when condition is true.</div>\n * <ng-template #elseBlock>Content to render when\n * condition is false.</ng-template>\n * ``\n * Shorthand form with "then" and "else" blocks:\n * ``\n * <div *ngIf="condition; then thenBlock else elseBlock"></div>\n * <ng-template #thenBlock>Content to render\n * when condition is true.</ng-template>\n * <ng-template #elseBlock>Content to render when condition is false.</ng-\n * template>\n * ``\n * Form with storing the value locally:\n * ``\n * <div *ngIf="condition as value; else\n * elseBlock">{{ value }}</div>\n * <ng-template #elseBlock>Content to render when value is null.</ng-template>\n * ``\n * @usageNotes\n * The `*ngIf` directive is most commonly used to conditionally show an inline\n * template,\n * as seen in the following example.\n * The default `else` template is blank.\n * {@example\n common/ngIf/ts/module.ts region='NgIfSimple'}\n * ### Showing an alternative template using `else`\n * To display a template when `expression` evaluates to false, use an `else` template\n * binding as shown in the following example.\n * The `else` binding points to an `` element labeled `#elseBlock`.\n *

```

The template can be defined anywhere in the component view, but is typically placed right after `\*ngIf` for readability.

```
{@example common/ngIf/ts/module.ts region='NgIfElse'}
```

### Using an external `then` template

In the previous example, the then-clause template is specified inline, as the content of the tag that contains the `ngIf` directive. You can also specify a template that is defined externally, by referencing a labeled `` element. When you do this, you can change which template to use at runtime, as shown in the following example.

```
{@example common/ngIf/ts/module.ts region='NgIfThenElse'}
```

### Storing a conditional result in a variable

You might want to show a set of properties from the same object. If you are waiting for asynchronous data, the object can be undefined. In this case, you can use `ngIf` and store the result of the condition in a local variable as shown in the following example.

```
*\n * {@example common/ngIf/ts/module.ts region='NgIfAs'}\n * This code uses only one `AsyncPipe`, so only one subscription is created.\n * The conditional statement stores the result of `userStream|async` in the local
```

variable `user`. You can then bind the local `user` repeatedly. The conditional displays the data only if `userStream` returns a value, so you don't need to use the safe-navigation-operator (`?.`) to guard against null values when accessing properties. You can display an alternative template while waiting for the data.

### Shorthand syntax

The shorthand syntax `\*ngIf` expands into two separate template specifications for the `then` and `else` clauses. For example, consider the following shorthand statement that is meant to show a loading page while waiting for data to be loaded.

```
<div class="hero-list" *ngIf="heroes else loading">
 ...
</div>
<ng-template #loading>
 <div>Loading...</div>
</ng-template>
```

You can see that the `else` clause references the `<ng-template>` with the `#loading` label, and the template for the `then` clause is provided as the content of the anchor element. However, when Angular expands the shorthand syntax, it creates another `<ng-template>` tag, with `ngIf` and `ngIfElse` directives. The anchor element containing the template for the `then` clause becomes the content of this unlabeled `<ng-template>` tag.

```
<ng-template [ngIf]="heroes" [ngIfElse]="loading">
 <div class="hero-list">
 ...
 </div>
</ng-template>
<ng-template #loading>
 <div>Loading...</div>
</ng-template>
```

The presence of the implicit template object has implications for the nesting of structural directives. For more on this subject, see [Structural Directives](https://angular.io/guide/built-in-directives#one-per-element).

```
@NgModule
CommonModule
@publicApi
@Directive({selector: '[ngIf]'})
export class NgIf<T = unknown> {
 private _context: NgIfContext<T> = new NgIfContext<T>();
 private _thenTemplateRef: TemplateRef<NgIfContext<T>> | null = null;
 private _elseTemplateRef: TemplateRef<NgIfContext<T>> | null = null;
 private _thenViewRef: EmbeddedViewRef<NgIfContext<T>> | null = null;
 private _elseViewRef: EmbeddedViewRef<NgIfContext<T>> | null = null;
 constructor(private _viewContainer: ViewContainerRef,
 templateRef: TemplateRef<NgIfContext<T>>) {
 this._thenTemplateRef = templateRef;
 }
 /**
 * The Boolean expression to evaluate as the condition for showing a template.
 */
 @Input() set ngIf(condition: T) {
 this._context.$implicit = this._context.ngIf = condition;
 this._updateView();
 }
 /**
 * A template to show if the condition expression evaluates to true.
 */
 @Input() set ngIfThen(templateRef: TemplateRef<NgIfContext<T>> | null) {
 assertTemplate('ngIfThen', templateRef);
 this._thenTemplateRef = templateRef;
 this._thenViewRef = null;
 // clear previous view if any
 this._updateView();
 }
 /**
 * A template to show if the condition expression evaluates to false.
 */
 @Input() set ngIfElse(templateRef: TemplateRef<NgIfContext<T>> | null) {
 assertTemplate('ngIfElse', templateRef);
 this._elseTemplateRef = templateRef;
 this._elseViewRef = null;
 // clear previous view if any
 this._updateView();
 }
 private _updateView() {
 if (this._context.$implicit) {
 if (!this._thenViewRef) {
 this._viewContainer.clear();
 this._elseViewRef = null;
 if (this._thenTemplateRef) {
 this._thenViewRef = this._viewContainer.createEmbeddedView(
 this._thenTemplateRef, this._context);
 }
 } else {
 if (!this._elseViewRef) {
 this._viewContainer.clear();
 this._thenViewRef = null;
 if (this._elseTemplateRef) {
 this._elseViewRef = this._viewContainer.createEmbeddedView(
 this._elseTemplateRef, this._context);
 }
 }
 }
 }
 }
 /**
 * @internal
 */
 public static ngIfUseIfTypeGuard: void;
 /**
 * Assert the correct type of the expression bound to the `ngIf` input within the template.
 * The presence of this static field is a signal to the Ivy template type check compiler that when the `NgIf` structural directive renders its template, the type of the expression bound to `ngIf` should be narrowed in some way. For `NgIf`, the binding expression itself is used to narrow its type, which allows the strictNullChecks feature of TypeScript to work with `NgIf`.
 */
 static ngTemplateGuard_ngIf: 'binding';
 /**
 * Asserts the correct type of the context for the template that `NgIf` will render.
 * The presence of this method is a signal to the Ivy template type-check compiler that the `NgIf` structural directive renders its template with a specific context type.
 */
 static ngTemplateContextGuard<T>(dir: NgIf<T>, ctx: any): ctx is NgIfContext<Exclude<T, false|0|''|null|undefined>> {
 return true;
 }
 /**
 * @publicApi
 */
 export class NgIfContext<T = unknown> {
 public $implicit: T = null!;
 public ngIf: T = null!;
 }
 function assertTemplate(property: string,
```

```

templateRef: TemplateRef<any>|null): void {\n const isTemplateRefOrNull = !!(templateRef ||
templateRef.createEmbeddedView);\n if (!isTemplateRefOrNull) {\n throw new Error(`${property} must be a
TemplateRef, but received '${stringify(templateRef)}'.`);\n }\n}\n\n"/**\n * @license\n * Copyright Google LLC
All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in
the LICENSE file at https://angular.io/license\n */\n\nimport {Directive, DoCheck, Host, Input, Optional,
TemplateRef, ViewContainerRef, RuntimeError
as RuntimeError} from '@angular/core';\n\nimport {RuntimeErrorCode} from '../errors';\n\nexport class
SwitchView {\n private _created = false;\n\n constructor(\n private _viewContainerRef: ViewContainerRef,\n private _templateRef: TemplateRef<Object>) {\n\n create(): void {\n this._created = true;\n this._viewContainerRef.createEmbeddedView(this._templateRef);\n }\n\n destroy(): void {\n this._created =
false;\n this._viewContainerRef.clear();\n }\n\n enforceState(created: boolean) {\n if (created &&
!this._created) {\n this.create();\n } else if (!created && this._created) {\n this.destroy();\n }\n }\n}\n\n/**\n * @ngModule CommonModule\n * @description\n * The `[ngSwitch]` directive on a container
specifies an expression to match against.\n * The expressions to match are provided by `ngSwitchCase` directives on
views within the container.\n * - Every view that matches is rendered.\n * - If there are no matches, a view with the
`ngSwitchDefault`
directive is rendered.\n * - Elements within the `[NgSwitch]` statement but outside of any `NgSwitchCase`\n * or
`ngSwitchDefault` directive are preserved at the location.\n\n * @usageNotes\n * Define a container element for
the directive, and specify the switch expression\n * to match against as an attribute:\n\n * ```\n * <container-
element [ngSwitch]="switch_expression">\n * ```\n\n * Within the container, `*ngSwitchCase` statements
specify the match expressions\n * as attributes. Include `*ngSwitchDefault` as the final case.\n\n * ```\n *
<container-element [ngSwitch]="switch_expression">\n * <some-element
*ngSwitchCase="match_expression_1">...</some-element>\n * ...</some-element>
*ngSwitchDefault>...</some-element>\n * </container-element>\n * ```\n\n * ### Usage Examples\n\n * The
following example shows how to use more than one case to display the same view:\n\n * ```\n * <container-
element [ngSwitch]="switch_expression">\n * <!--
the same view can be shown in more than one case -->\n * <some-element
*ngSwitchCase="match_expression_1">...</some-element>\n * <some-element
*ngSwitchCase="match_expression_2">...</some-element>\n * <some-other-element
*ngSwitchCase="match_expression_3">...</some-other-element>\n * <!--default case when there are no matches
-->\n * <some-element *ngSwitchDefault>...</some-element>\n * </container-element>\n * ```\n\n * The
following example shows how cases can be nested:\n\n * ```\n * <container-element
[ngSwitch]="switch_expression">\n * <some-element *ngSwitchCase="match_expression_1">...</some-
element>\n * <some-element *ngSwitchCase="match_expression_2">...</some-element>\n * <some-
other-element *ngSwitchCase="match_expression_3">...</some-other-element>\n * <ng-container
*ngSwitchCase="match_expression_3">\n * <!-- use a ng-container to group multiple root nodes -->\n *
<inner-element></inner-element>\n *
<inner-other-element></inner-other-element>\n * </ng-container>\n * <some-element
*ngSwitchDefault>...</some-element>\n * </container-element>\n * ```\n\n * @publicApi\n * @see
`NgSwitchCase`\n * @see `NgSwitchDefault`\n * @see [Structural Directives](guide/structural-directives)\n\n *
*\n * @NgModule({selector: '[ngSwitch]'})\n * export class NgSwitch {\n * // TODO(issue/24571): remove '!'.\n * private
_defaultViews!: SwitchView[];\n * private _defaultUsed = false;\n * private _caseCount = 0;\n * private
_lastCaseCheckIndex = 0;\n * private _lastCasesMatched = false;\n * private _ngSwitch: any;\n\n * @Input()\n * set
ngSwitch(newValue: any) {\n * this._ngSwitch = newValue;\n * if (this._caseCount === 0) {\n *
this._updateDefaultCases(true);\n * }\n * }\n\n * /** @internal */\n * _addCase(): number {\n * return
this._caseCount++;\n * }\n\n * /** @internal */\n * _addDefault(view: SwitchView) {\n * if (!this._defaultViews) {\n *
this._defaultViews = [];\n * }\n * this._defaultViews.push(view);\n *

```

```

 }
 internal * /n _matchCase(value: any): boolean {
 const matched = value == this._ngSwitch;
 this._lastCasesMatched = this._lastCasesMatched || matched;
 this._lastCaseCheckIndex++;
 if (this._lastCaseCheckIndex === this._caseCount) {
 this._updateDefaultCases(!this._lastCasesMatched);
 this._lastCaseCheckIndex = 0;
 this._lastCasesMatched = false;
 }
 return matched;
 }

 private _updateDefaultCases(useDefault: boolean) {
 if (this._defaultViews && useDefault !== this._defaultUsed) {
 this._defaultUsed = useDefault;
 for (let i = 0; i < this._defaultViews.length; i++) {
 const defaultView = this._defaultViews[i];
 defaultView.enforceState(useDefault);
 }
 }
 }

 /**
 * @ngModule CommonModule
 * * @description
 * * Provides a switch case expression to match against an enclosing `ngSwitch` expression.
 * * When the expressions match, the given `NgSwitchCase` template is rendered.
 * * If multiple match expressions match the switch expression value, all of them are displayed.
 * * @usageNotes
 * * Within a switch container, `NgSwitchCase` statements specify the match expressions as attributes. Include `NgSwitchDefault` as the final case.
 * * ```
 * * <container-element [ngSwitch]="switch_expression">
 * * <some-element NgSwitchCase="match_expression_1">...</some-element>
 * * ...
 * * <some-element NgSwitchDefault>...</some-element>
 * * </container-element>
 * * ```
 * * Each switch-case statement contains an in-line HTML template or template reference that defines the subtree to be selected if the value of the match expression matches the value of the switch expression.
 * * Unlike JavaScript, which uses strict equality, Angular uses loose equality. This means that the empty string, `""` matches `0`.
 * * @publicApi
 * * @see `NgSwitch`
 * * @see `NgSwitchDefault`
 * * @see `NgSwitchCase`
 * * @Directive({selector: '[NgSwitchCase]'})
 * * export class NgSwitchCase implements DoCheck {
 * * private _view: SwitchView;
 * * /**
 * * Stores the HTML template to be selected on match.
 * * @Input() ngSwitchCase: any;
 * * constructor(
 * * viewContainer: ViewContainerRef, templateRef: TemplateRef<Object>,
 * * @Optional() @Host() private ngSwitch: NgSwitch) {
 * * if ((typeof ngDevMode === 'undefined' || ngDevMode) && !ngSwitch) {
 * * throwNgSwitchProviderNotFoundError('ngSwitchCase', 'NgSwitchCase');
 * * }
 * * ngSwitch._addCase();
 * * this._view = new SwitchView(viewContainer, templateRef);
 * * }
 * * /**
 * * Performs case matching. For internal use only.
 * * @nodoc
 * * ngDoCheck() {
 * * this._view.enforceState(this.ngSwitch._matchCase(this.ngSwitchCase));
 * * }
 * * }
 * * }
 * * @ngModule CommonModule
 * * * @description
 * * * Creates a view that is rendered when no `NgSwitchCase` expressions match the `NgSwitch` expression. This statement should be the final case in an `NgSwitch`.
 * * * @publicApi
 * * * @see `NgSwitch`
 * * * @see `NgSwitchCase`
 * * * @Directive({selector: '[NgSwitchDefault]'})
 * * * export class NgSwitchDefault {
 * * * constructor(
 * * * viewContainer: ViewContainerRef, templateRef: TemplateRef<Object>,
 * * * @Optional() @Host() ngSwitch: NgSwitch) {
 * * * if ((typeof ngDevMode === 'undefined' || ngDevMode) && !ngSwitch) {
 * * * throwNgSwitchProviderNotFoundError('ngSwitchDefault', 'NgSwitchDefault');
 * * * }
 * * * ngSwitch._addDefault(new SwitchView(viewContainer, templateRef));
 * * * }
 * * * function throwNgSwitchProviderNotFoundError(attrName: string, directiveName: string): never {
 * * * throw new RuntimeError(
 * * * RuntimeErrorCode.PARENT_NG_SWITCH_NOT_FOUND,
 * * * `An element with the "${attrName}" attribute ` +
 * * * `(matching the "${directiveName}" directive) must be located inside an element with the "ngSwitch" attribute ` +
 * * * `(matching "NgSwitch" directive)`);
 * * * }
 * * * }
 * * * @license
 * * Copyright
 * * Google LLC All Rights Reserved.
 * * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 * * }
 * * import {Attribute, Directive, Host, Input, TemplateRef, ViewContainerRef} from '@angular/core';
 * * import {getPluralCategory, NgLocalization} from './i18n/localization';
 * * import {SwitchView} from './ng_switch';
 * * /**
 * * @ngModule CommonModule
 * * * @usageNotes
 * * * ```
 * * * <some-element [ngPlural]="value">
 * * * <ng-template ngPluralCase="=0">there is nothing</ng-template>
 * * * <ng-template ngPluralCase="=1">there is one</ng-template>
 * * * <ng-template ngPluralCase="few">there are a few</ng-template>
 * * * </some-element>
 * * * ```
 * * * @description
 * * * Adds / removes DOM sub-trees based on a numeric value. Tailored for pluralization.
 * * * Displays DOM sub-trees that match the switch expression value, or failing that, DOM sub-trees that match the switch expression's pluralization

```

category.  
 \* To use this directive you must provide a container element that sets the `[ngPlural]` attribute to a switch expression. Inner elements with a `[ngPluralCase]` will display based on their expression:
 

- if `[ngPluralCase]` is set to a value starting with `=`, it will only display if the value matches the switch expression exactly,
- otherwise, the view will be treated as a "category match", and will only display if exact value matches aren't found and the value maps to its category for the defined locale.

 See <http://cldr.unicode.org/index/cldr-spec/plural-rules>

```

 * @publicApi
 * @Directive({selector: '[ngPlural]'})
 export class NgPlural {
 // TODO(issue/24571): remove '!'.
 private _switchValue!: number;
 // TODO(issue/24571): remove '!'.
 private _activeView!: SwitchView;
 private _caseViews: {[k: string]: SwitchView} = {};

 constructor(private _localization: NgLocalization) {}

 @Input() set ngPlural(value: number) {
 this._switchValue = value;
 this._updateView();
 }

 addCase(value: string, switchView: SwitchView): void {
 this._caseViews[value] = switchView;
 }

 private _updateView(): void {
 this._clearViews();
 const cases = Object.keys(this._caseViews);
 const key = getPluralCategory(this._switchValue, cases, this._localization);
 this._activateView(this._caseViews[key]);
 }

 private _clearViews() {
 if (this._activeView) this._activeView.destroy();
 }

 private _activateView(view: SwitchView) {
 if (view) {
 this._activeView = view;
 this._activeView.create();
 }
 }
 }
 */
 * @ngModule CommonModule
 * @description
 * Creates a view that will be added/removed from the parent {@link NgPlural} when the given expression matches the plural expression according to CLDR rules.
 * @usageNotes
 * ``
 * <some-element [ngPlural]="value">
 * <ng-template ngPluralCase="=0">...</ng-template>
 * <ng-template ngPluralCase="other">...</ng-template>
 * </some-element>
 * ``
 * See {@link NgPlural} for more details and example.
 * @publicApi
 * @Directive({selector: '[ngPluralCase]'})
 export class NgPluralCase {
 constructor(
 @Attribute('ngPluralCase') public value: string,
 template: TemplateRef<Object>,
 viewContainer: ViewContainerRef,
 @Host() ngPlural: NgPlural) {
 const isANumber: boolean = !isNaN(Number(value));
 ngPlural.addCase(isANumber ? `=${value}` : value, new SwitchView(viewContainer, template));
 }
 }
 */
 * @license
 * Copyright Google LLC All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */
 import {Directive, DoCheck, ElementRef, Input, KeyValueChanges, KeyValueDiffer, KeyValueDiffers, Renderer2} from '@angular/core';
 * @ngModule CommonModule
 * @usageNotes
 * Set the font of the containing element to the result of an expression.
 * ``
 * <some-element [ngStyle]="{'font-style': styleExp}">...</some-element>
 * ``
 * Set the width of the containing element to a pixel value returned by an expression.
 * ``
 * <some-element [ngStyle]="{'max-width.px': widthExp}">...</some-element>
 * ``
 * Set a collection of style values using an expression that returns key-value pairs.
 * ``
 * <some-element [ngStyle]="objExp">...</some-element>
 * ``
 * @description
 * An attribute directive that updates styles for the containing HTML element.
 * Sets one or more style properties, specified as colon-separated key-value pairs.
 * The key is a style name, with an optional <unit> suffix (such as 'top.px', 'font-style.em').
 * The value is an expression to be evaluated.
 * The resulting non-null value, expressed in the given unit, is assigned to the given style property.
 * If the result of evaluation is null, the corresponding style is removed.
 * @publicApi
 * @Directive({selector: '[ngStyle]'})
 export class NgStyle implements DoCheck {
 private _ngStyle: {[key: string]: string}|null = null;
 private _differ: KeyValueDiffer<string, string|number>|null = null;
 constructor(
 private _ngEl: ElementRef,
 private _differs: KeyValueDiffers,
 private _renderer: Renderer2) {}

 @Input('ngStyle') set ngStyle(values: {[klass: string]: any}|null) {
 this._ngStyle = values;
 if (!this._differ && values) {
 this._differ = this._differs.find(values).create();
 }
 }

 ngDoCheck() {
 if (this._differ) {
 const changes = this._differ.diff(this._ngStyle!);
 if (changes) {
 this._applyChanges(changes);
 }
 }
 }

 private _setStyle(nameAndUnit: string, value: string|number|null|undefined): void {
 const [name, unit] = nameAndUnit.split('.');
 value = value != null && unit ? `${value}${unit}` : value;
 }
 }

```



```

 if (value != null) {\n this._renderer.setStyle(this._ngEl.nativeElement, name, value as string);\n } else {\n this._renderer.removeStyle(this._ngEl.nativeElement, name);\n }\n }\n\n private _applyChanges(changes: KeyValueChanged<string, string|number>): void {\n changes.forEachRemovedItem((record) => this._setStyle(record.key, null));\n changes.forEachAddedItem((record) => this._setStyle(record.key, record.currentValue));\n changes.forEachChangedItem((record) => this._setStyle(record.key, record.currentValue));\n }\n}\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n * https://angular.io/license\n */\n\nimport {Directive, EmbeddedViewRef, Input, OnChanges, SimpleChange, SimpleChanges, TemplateRef, ViewContainerRef} from '@angular/core';\n\n/**\n * @ngModule\n * CommonModule\n * \n * @description\n * \n * Inserts an embedded view from a prepared `TemplateRef`. \n * \n * You can attach a context object to the `EmbeddedViewRef` by setting `[ngTemplateOutletContext]`. \n * \n * `[ngTemplateOutletContext]` should be an object, the object's keys will be available for binding \n * by the local template `let` declarations. \n * \n * @usageNotes\n * ``\n * <ng-container\n * ngTemplateOutlet=\"templateRefExp; context: contextExp\"></ng-container>\n * ``\n * \n * Using the key `$implicit` in the context object will set its value as default. \n * \n * ### Example\n * \n * {@example\n * common/ngTemplateOutlet/ts/module.ts region='NgTemplateOutlet'}\n * \n * @publicApi\n * \n */\n@Directive({selector: '[ngTemplateOutlet]'})\nexport class NgTemplateOutlet implements OnChanges {\n private _viewRef: EmbeddedViewRef<any>|null = null;\n\n /**\n * A context object to attach to the {@link EmbeddedViewRef}. This should be an \n * object, the object's keys will be available for binding by the local template `let` \n * declarations. \n * \n * Using the key `$implicit` \n * in the context object will set its value as default. \n * \n * @Input() public ngTemplateOutletContext: Object|null = null;\n\n /**\n * A string defining the template reference and optionally the context object for the template. \n * \n * @Input() public ngTemplateOutlet: TemplateRef<any>|null = null;\n\n constructor(private _viewContainerRef: ViewContainerRef) {\n\n /** @nodoc */\n ngOnChanges(changes: SimpleChanges) {\n if (changes['ngTemplateOutlet']) {\n const viewContainerRef = this._viewContainerRef;\n\n if (this._viewRef) {\n viewContainerRef.remove(viewContainerRef.indexOf(this._viewRef));\n }\n\n this._viewRef = this.ngTemplateOutlet ?\n viewContainerRef.createEmbeddedView(this.ngTemplateOutlet, this.ngTemplateOutletContext) :\n null;\n } else if (\n this._viewRef &&\n changes['ngTemplateOutletContext'] && this.ngTemplateOutletContext) {\n this._viewRef.context = this.ngTemplateOutletContext;\n }\n }\n }\n}\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Provider} from '@angular/core';\nimport {NgClass} from './ng_class';\nimport {NgComponentOutlet} from './ng_component_outlet';\nimport {NgForOf, NgForOfContext} from './ng_for_of';\nimport {NgIf, NgIfContext} from './ng_if';\nimport {NgPlural, NgPluralCase} from './ng_plural';\nimport {NgStyle} from './ng_style';\nimport {NgSwitch, NgSwitchCase, NgSwitchDefault} from './ng_switch';\nimport {NgTemplateOutlet} from './ng_template_outlet';\n\nexport {\n NgClass,\n NgComponentOutlet,\n NgForOf,\n NgForOfContext,\n NgIf,\n NgIfContext,\n NgPlural,\n NgPluralCase,\n NgStyle,\n NgSwitch,\n NgSwitchCase,\n NgSwitchDefault,\n NgTemplateOutlet,\n};\n\n/**\n * A collection of Angular directives that are likely to be used in each and every Angular \n * application. \n * \n */\nexport const COMMON_DIRECTIVES: Provider[] = [\n NgClass,\n NgComponentOutlet,\n NgForOf,\n NgIf,\n NgTemplateOutlet,\n NgStyle,\n NgSwitch,\n NgSwitchCase,\n NgSwitchDefault,\n NgPlural,\n NgPluralCase,\n];\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Type, RuntimeError as RuntimeError, stringify as stringify} from '@angular/core';\nimport {RuntimeErrorCode} from './errors';\n\nexport function invalidPipeArgumentError(type: Type<any>, value: Object) {\n const errorMessage = (typeof ngDevMode === 'undefined' || ngDevMode) ?\n `InvalidPipeArgument: '${value}' for pipe '${stringify(type)}'`\n : '';\n return new

```

```

RuntimeError(RuntimeErrorCode.INVALID_PIPE_ARGUMENT, errorMessage);\n}\n", "/*\n * @license\n *
Copyright Google LLC All Rights Reserved.\n *\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nimport {ChangeDetectorRef, EventEmitter, OnDestroy, Pipe, PipeTransform, isPromise, isSubscribable} from
'@angular/core';\nimport {Observable, Subscribable, Unsubscribable} from 'rxjs';\n\nimport
{invalidPipeArgumentError} from './invalid_pipe_argument_error';\n\ninterface SubscriptionStrategy {\n
createSubscription(async: Subscribable<any>|Promise<any>, updateLatestValue: any): Unsubscribable\n
|Promise<any>;\n dispose(subscription: Unsubscribable|Promise<any>): void;\n onDestroy(subscription:
Unsubscribable|Promise<any>): void;\n}\n\nclass SubscribableStrategy implements SubscriptionStrategy {\n
createSubscription(async: Subscribable<any>, updateLatestValue: any): Unsubscribable {\n return
async.subscribe({\n next: updateLatestValue,\n error: (e: any) => {\n throw e;\n };\n });\n }\n\n
dispose(subscription: Unsubscribable):
void {\n subscription.unsubscribe();\n }\n\n onDestroy(subscription: Unsubscribable): void {\n
subscription.unsubscribe();\n }\n}\n\nclass PromiseStrategy implements SubscriptionStrategy {\n
createSubscription(async: Promise<any>, updateLatestValue: (v: any) => any): Promise<any> {\n return
async.then(updateLatestValue, e => {\n throw e;\n });\n }\n\n dispose(subscription: Promise<any>): void
{\n }\n\n onDestroy(subscription: Promise<any>): void {\n }\n}\n\nconst _promiseStrategy = new
PromiseStrategy();\nconst _subscribableStrategy = new SubscribableStrategy();\n\n/**\n * @ngModule
CommonModule\n * @description\n *\n * Unwraps a value from an asynchronous primitive.\n *\n * The `async`
pipe subscribes to an `Observable` or `Promise` and returns the latest value it has\n * emitted. When a new value is
emitted, the `async` pipe marks the component to be checked for\n * changes. When the component gets destroyed,
the `async` pipe unsubscribes automatically to avoid\n
* potential memory leaks. When the reference of the expression changes, the `async` pipe\n * automatically
unsubscribes from the old `Observable` or `Promise` and subscribes to the new one.\n *\n * @usageNotes\n *\n *
Examples\n *\n * This example binds a `Promise` to the view. Clicking the `Resolve` button resolves the\n *
promise.\n *\n * {@example common/pipes/ts/async_pipe.ts region='AsyncPipePromise'}\n *\n * It's also possible
to use `async` with Observables. The example below binds the `time` Observable\n * to the view. The Observable
continuously updates the view with the current time.\n *\n * {@example common/pipes/ts/async_pipe.ts
region='AsyncPipeObservable'}\n *\n * @publicApi\n *\n */\n@Pipe({name: 'async', pure: false})\nexport class
AsyncPipe implements OnDestroy, PipeTransform {\n private _latestValue: any = null;\n\n private _subscription:
Unsubscribable|Promise<any>|null = null;\n\n private _obj:
Subscribable<any>|Promise<any>|EventEmitter<any>|null = null;\n\n private
_strategy: SubscriptionStrategy = null!;\n\n constructor(private _ref: ChangeDetectorRef) {\n\n\n ngOnDestroy():
void {\n if (this._subscription) {\n this._dispose();\n }\n }\n\n // NOTE(@benlesh): Because Observable has
deprecated a few call patterns for `subscribe`,\n // TypeScript has a hard time matching Observable to Subscribable,
for more information\n // see https://github.com/microsoft/TypeScript/issues/43643\n\n transform<T>(obj:
Observable<T>|Subscribable<T>|Promise<T>): T|null;\n transform<T>(obj: null|undefined): null;\n
transform<T>(obj: Observable<T>|Subscribable<T>|Promise<T>|null|undefined): T|null;\n transform<T>(obj:
Observable<T>|Subscribable<T>|Promise<T>|null|undefined): T|null {\n if (!this._obj) {\n if (obj) {\n
this._subscribe(obj);\n }\n return this._latestValue;\n }\n\n if (obj !== this._obj) {\n this._dispose();\n
return this.transform(obj);\n }\n\n return this._latestValue;\n }\n\n private
_subsubscribe(obj: Subscribable<any>|Promise<any>|EventEmitter<any>): void {\n this._obj = obj;\n
this._strategy = this._selectStrategy(obj);\n this._subscription = this._strategy.createSubscription(\n obj,
(value: Object) => this._updateLatestValue(obj, value));\n }\n\n private _selectStrategy(obj:
Subscribable<any>|Promise<any>|EventEmitter<any>): any {\n if (isPromise(obj)) {\n return
_promiseStrategy;\n }\n\n if (isSubscribable(obj)) {\n return _subscribableStrategy;\n }\n\n throw
invalidPipeArgumentError(AsyncPipe, obj);\n }\n\n private _dispose(): void {\n
this._strategy.dispose(this._subscription!);\n this._latestValue = null;\n this._subscription = null;\n this._obj =

```

```

null;\n\n private _updateLatestValue(async: any, value: Object): void {\n if (async === this._obj) {\n this._latestValue = value;\n this._ref.markForCheck();\n }\n}\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n https://angular.io/license\n */\n\nimport {Pipe, PipeTransform} from '@angular/core';\nimport {invalidPipeArgumentError} from './invalid_pipe_argument_error';\n\n/**\n * Transforms text to all lower case.\n\n * @see `UpperCasePipe`\n * @see `TitleCasePipe`\n * @usageNotes\n\n * The following example defines a view that allows the user to enter\n * text, and then uses the pipe to convert the input text to all lower case.\n\n * <code-example path='./common/pipes/ts/lowerupper_pipe.ts' region='LowerUpperCasePipe'>\n * @ngModule CommonModule\n * @publicApi\n */\n@Pipe({name: 'lowercase'})\nexport class LowerCasePipe implements PipeTransform {\n /**\n * @param value The string to transform to lower case.\n\n * transform(value: string): string;\n * transform(value: null|undefined): null;\n * transform(value: string|null|undefined): string|null;\n * transform(value: string|null|undefined): string|null {\n if (value == null) return null;\n if (typeof value !== 'string') {\n throw invalidPipeArgumentError(LowerCasePipe, value);\n }\n return value.toLowerCase();\n }\n}\n\n// Regex below matches any Unicode word and number compatible with ES5. In ES2018 the same result\n// can be achieved by using /[0-9\\p{L}]/u and also known as Unicode Property Escapes\n// (https://2ality.com/2017/07/regexp-unicode-property-escapes.html). Since there is no\n// transpilation of this functionality down to ES5 without external tool, the only solution is\n// to use already transpiled form. Example can be found here -\n// https://mothereff.in/regexpu#input=var+regex+%3D+%2F%5B0-9%5Cp%7B%5D%5C%2F%5B%0A%0A&unicodePropertyEscape=1\n\nconst unicodeWordMatch =\n /(?:[0-9A-Za-z\\xAA\\xBA\\xC0\\xD6\\xD8\\xF6\\xF8\\u02C1\\u02C6\\u02D1\\u02E0-\\u02E4\\u02EC\\u02EE\\u0370\\u0374\\u0376\\u0377\\u037A\\u037D\\u037F\\u0386\\u0388-\\u038A\\u038C\\u038E\\u03A1\\u03A3\\u03F5\\u03F7\\u0481\\u048A\\u052F\\u0531\\u0556\\u0559\\u0560-\\u0588\\u05D0\\u05EA\\u05EF\\u05F2\\u0620\\u064A\\u066E\\u066F\\u0671-\\u06D3\\u06D5\\u06E5\\u06E6\\u06EE\\u06EF\\u06FA\\u06FC\\u06FF\\u0710\\u0712\\u072F\\u074D-\\u07A5\\u07B1\\u07CA\\u07EA\\u07F4\\u07F5\\u07FA\\u0800\\u0815\\u081A\\u0824\\u0828\\u0840-\\u0858\\u0860\\u086A\\u0870\\u0887\\u0889\\u088E\\u08A0\\u08C9\\u0904\\u0939\\u093D\\u0950\\u0958-\\u0961\\u0971\\u0980\\u0985\\u098C\\u098F\\u0990\\u0993\\u09A8\\u09AA\\u09B0\\u09B2\\u09B6-\\u09B9\\u09BD\\u09CE\\u09DC\\u09DD\\u09DF\\u09E1\\u09F0\\u09F1\\u09FC\\u0A05-\\u0A0A\\u0A0F\\u0A10\\u0A13\\u0A28\\u0A2A-\\u0A30\\u0A32\\u0A33\\u0A35\\u0A36\\u0A38\\u0A39\\u0A59\\u0A5C\\u0A5E\\u0A72\\u0A74\\u0A85-\\u0A8D\\u0A8F\\u0A91\\u0A93\\u0AA8\\u0AAA\\u0AB0\\u0AB2\\u0AB3\\u0AB5-\\u0AB9\\u0ABD\\u0AD0\\u0AE0\\u0AE1\\u0AF9\\u0B05\\u0B0C\\u0B0F\\u0B10\\u0B13\\u0B28\\u0B2A-\\u0B30\\u0B32\\u0B33\\u0B35\\u0B39\\u0B3D\\u0B5C\\u0B5D\\u0B5F\\u0B61\\u0B71\\u0B83\\u0B85-\\u0B8A\\u0B8E\\u0B90\\u0B92\\u0B95\\u0B99\\u0B9A\\u0B9C\\u0B9E\\u0B9F\\u0BA3\\u0BA4\\u0BA8-\\u0BAA\\u0BAE\\u0BB9\\u0BD0\\u0C05\\u0C0C\\u0C0E\\u0C10\\u0C12\\u0C28\\u0C2A-\\u0C39\\u0C3D\\u0C58\\u0C5A\\u0C5D\\u0C60\\u0C61\\u0C80\\u0C85\\u0C8C\\u0C8E\\u0C90\\u0C92-\\u0CA8\\u0CAA\\u0CB3\\u0CB5\\u0CB9\\u0CBD\\u0CDD\\u0CDE\\u0CE0\\u0CE1\\u0CF1\\u0CF2\\u0D04-\\u0D0C\\u0D0E\\u0D10\\u0D12\\u0D3A\\u0D3D\\u0D4E\\u0D54\\u0D56\\u0D5F\\u0D61\\u0D7A-\\u0D7F\\u0D85\\u0D96\\u0D9A\\u0DB1\\u0DB3\\u0DBB\\u0DBD\\u0DC0\\u0DC6\\u0E01-\\u0E30\\u0E32\\u0E33\\u0E40\\u0E46\\u0E81\\u0E82\\u0E84\\u0E86\\u0E8A\\u0E8C\\u0EA3\\u0EA5\\u0EA7-\\u0EB0\\u0EB2\\u0EB3\\u0EBD\\u0EC0\\u0EC4\\u0EC6\\u0EDC\\u0EDF\\u0F00\\u0F40\\u0F47\\u0F49-\\u0F6C\\u0F88\\u0F8C\\u1000\\u102A\\u103F\\u1050\\u1055\\u105A\\u105D\\u1061\\u1065\\u1066\\u106E-\\u1070\\u1075\\u1081\\u108E\\u10A0\\u10C5\\u10C7\\u10CD\\u10D0\\u10FA\\u10FC\\u1248\\u124A-\\u124D\\u1250\\u1256\\u1258\\u125A\\u125D\\u1260\\u1288\\u128A\\u128D\\u1290\\u12B0\\u12B2-\\u12B5\\u12B8\\u12BE\\u12C0\\u12C2\\u12C5\\u12C8\\u12D6\\u12D8\\u1310\\u1312\\u1315\\u1318-\\u135A\\u1380\\u138F\\u13A0\\u13F5\\u13F8\\u13FD\\u1401\\u166C\\u166F\\u167F\\u1681\\u169A\\u16A0-\\u16A3\\u16A5\\u16A7\\u16A9\\u16AC\\u16AD\\u16AF\\u16B0\\u16B1\\u16B3\\u16B4\\u16B6\\u16B7\\u16B9\\u16BA\\u16BB\\u16BD\\u16BE\\u16C0\\u16C1\\u16C2\\u16C3\\u16C4\\u16C5\\u16C6\\u16C7\\u16C8\\u16C9\\u16CA\\u16CB\\u16CC\\u16CD\\u16CE\\u16CF\\u16D0\\u16D1\\u16D2\\u16D3\\u16D4\\u16D5\\u16D6\\u16D7\\u16D8\\u16D9\\u16DA\\u16DB\\u16DC\\u16DD\\u16DE\\u16DF\\u16E0\\u16E1\\u16E2\\u16E3\\u16E4\\u16E5\\u16E6\\u16E7\\u16E8\\u16E9\\u16EA\\u16EB\\u16EC\\u16ED\\u16EE\\u16EF\\u16F0\\u16F1\\u16F2\\u16F3\\u16F4\\u16F5\\u16F6\\u16F7\\u16F8\\u16F9\\u16FA\\u16FB\\u16FC\\u16FD\\u16FE\\u16FF\\u1700\\u1701\\u1702\\u1703\\u1704\\u1705\\u1706\\u1707\\u1708\\u1709\\u170A\\u170B\\u170C\\u170D\\u170E\\u170F\\u1710\\u1711\\u1712\\u1713\\u1714\\u1715\\u1716\\u1717\\u1718\\u1719\\u171A\\u171B\\u171C\\u171D\\u171E\\u171F\\u1720\\u1721\\u1722\\u1723\\u1724\\u1725\\u1726\\u1727\\u1728\\u1729\\u172A\\u172B\\u172C\\u172D\\u172E\\u172F\\u1730\\u1731\\u1732\\u1733\\u1734\\u1735\\u1736\\u1737\\u1738\\u1739\\u173A\\u173B\\u173C\\u173D\\u173E\\u173F\\u1740\\u1741\\u1742\\u1743\\u1744\\u1745\\u1746\\u1747\\u1748\\u1749\\u174A\\u174B\\u174C\\u174D\\u174E\\u174F\\u1750\\u1751\\u1752\\u1753\\u1754\\u1755\\u1756\\u1757\\u1758\\u1759\\u175A\\u175B\\u175C\\u175D\\u175E\\u175F\\u1760\\u1761\\u1762\\u1763\\u1764\\u1765\\u1766\\u1767\\u1768\\u1769\\u176A\\u176B\\u176C\\u176D\\u176E\\u176F\\u1770\\u1771\\u1772\\u1773\\u1774\\u1775\\u1776\\u1777\\u1778\\u1779\\u177A\\u177B\\u177C\\u177D\\u177E\\u177F\\u1780\\u1781\\u1782\\u1783\\u1784\\u1785\\u1786\\u1787\\u1788\\u1789\\u178A\\u178B\\u178C\\u178D\\u178E\\u178F\\u1790\\u1791\\u1792\\u1793\\u1794\\u1795\\u1796\\u1797\\u1798\\u1799\\u179A\\u179B\\u179C\\u179D\\u179E\\u179F\\u17A0\\u17A1\\u17A2\\u17A3\\u17A4\\u17A5\\u17A6\\u17A7\\u17A8\\u17A9\\u17AA\\u17AB\\u17AC\\u17AD\\u17AE\\u17AF\\u17B0\\u17B1\\u17B2\\u17B3\\u17B4\\u17B5\\u17B6\\u17B7\\u17B8\\u17B9\\u17
```

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\\uDFFE]]\\uD83A[\\uDC00-\\uDCC4\\uDD00-\\uDD43\\uDD4B]]\\uD83B[\\uDE00-\\uDE03\\uDE05-  
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\\uDE9B\\uDEA1-\\uDEA3\\uDEA5-\\uDEA9\\uDEAB-\\uDEBB]]\\uD869[\\uDC00-\\uDEFD\\uDF00-  
\\uDFFF]]\\uD86D[\\uDC00-\\uDF38\\uDF40-\\uDFFF]]\\uD86E[\\uDC00-\\uDC1D\\uDC20-  
\\uDFFF]]\\uD873[\\uDC00-\\uDEA1\\uDEB0-\\uDFFF]]\\uD87A[\\uDC00-\\uDFE0]]\\uD87E[\\uDC00-  
\\uDE1D]]\\uD884[\\uDC00-\\uDF4A]]\\S\*/g;\\n\\n/\*\*\\n

\* Transforms text to title case.\\n \* Capitalizes the first letter of each

word and transforms the\\n \* rest of the word to lower case.\\n \* Words are delimited by any whitespace character,  
such as a space, tab, or line-feed character.\\n \*\\n \* @see `LowerCasePipe`\\n \* @see `UpperCasePipe`\\n \*\\n \*  
@usageNotes\\n \* The following example shows the result of transforming various strings into title case.\\n \*\\n \*  
<code-example path="common/pipes/ts/titlecase\_pipe.ts" region="TitleCasePipe"></code-example>\\n \*\\n \*  
@ngModule CommonModule\\n \* @publicApi\\n \*/\\n@Pipe({name: 'titlecase'})\\nexport class TitleCasePipe  
implements PipeTransform {\\n /\*\*\\n \* @param value The string to transform to title case.\\n \*/\\n  
transform(value: string): string;\\n transform(value: null|undefined): null;\\n transform(value: string|null|undefined):  
string|null;\\n transform(value: string|null|undefined): string|null {\\n if (value == null) return null;\\n if (typeof  
value !== 'string') {\\n throw invalidPipeArgumentError(TitleCasePipe, value);\\n }\\n\\n return value.replace(\\n  
unicodeWordMatch, (txt => txt[0].toUpperCase() + txt.substr(1).toLowerCase()));\\n }\\n}\\n\\n/\*\*\\n \*

Transforms text to all upper case.\\n \* @see `LowerCasePipe`\\n \* @see `TitleCasePipe`\\n \*\\n \* @ngModule  
CommonModule\\n \* @publicApi\\n \*/\\n@Pipe({name: 'uppercase'})\\nexport class UpperCasePipe implements  
PipeTransform {\\n /\*\*\\n \* @param value The string to transform to upper case.\\n \*/\\n transform(value: string):  
string;\\n transform(value: null|undefined): null;\\n transform(value: string|null|undefined): string|null;\\n  
transform(value: string|null|undefined): string|null {\\n if (value == null) return null;\\n if (typeof value !==  
'string') {\\n throw invalidPipeArgumentError(UpperCasePipe, value);\\n }\\n return value.toUpperCase();\\n  
}\\n}\\n\\n", /\*\*\\n \* @license\\n \* Copyright Google LLC All Rights Reserved.\\n \*\\n \* Use of this source code is

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```
{Inject, InjectionToken, LOCALE_ID, Optional, Pipe, PipeTransform} from '@angular/core';
import {formatDate} from './format_date';
import {invalidPipeArgumentError} from './invalid_pipe_argument_error';

/**
 * Optionally-provided default timezone to use for all instances of
 * `DatePipe` (such as `'+0430'`).
 * If the value isn't provided, the `DatePipe` will use the end-user's local system
 * timezone.
 */
export const DATE_PIPE_DEFAULT_TIMEZONE = new
InjectionToken<string>('DATE_PIPE_DEFAULT_TIMEZONE');

// clang-format off
/**
 * @ngModule
 * CommonModule
 * @description
 * Formats a date value according to locale rules.
 * `DatePipe` is
 * executed only when it detects a pure change to the input value.
 * A pure change is either a change to a primitive
 * input value (such as `String`, `Number`, `Boolean`, or `Symbol`),
 * or a changed object reference (such as `Date`, `Array`, `Function`, or `Object`).
 * Note that mutating a `Date` object does not
 * cause the pipe to be rendered again.
 * To ensure that the pipe is executed, you must create a new `Date` object.
 * Only the `en-US` locale data comes with Angular. To localize dates
 * in another language, you must import
 * the corresponding locale data.
 * See the [I18n guide](guide/i18n-common-format-data-locale) for more
 * information.
 * The time zone of the formatted value can be specified either by passing it in as the second
 * parameter of the pipe, or by setting the default through the `DATE_PIPE_DEFAULT_TIMEZONE`
 * injection token. The value that is passed in as the second parameter takes precedence over
 * the one defined using the
 * injection token.
 * @see `formatDate()`
 * @usageNotes
 * The result of this pipe is not
 * reevaluated when the input is mutated. To avoid the need to reformat the date on every change-detection cycle,
 * treat the date as an immutable object and change the reference when the pipe needs to run again.
 */
###
Pre-defined format options | Option | Equivalent to | Examples (given in `en-US` locale)
|-----|-----|-----|
| `short` | `M/d/yy, h:mm a` | `6/15/15, 9:03 AM` | `medium` | `MMM d, y, h:mm:ss a` | `Jun 15, 2015, 9:03:01 AM` | `long` | `MMMM d, y, h:mm:ss a z` | `June 15, 2015 at 9:03:01 AM GMT+1` | `full` | `EEEE, MMMM d, y, h:mm:ss a zzzz` | `Monday, June 15, 2015 at 9:03:01 AM GMT+01:00` | `shortDate` | `M/d/yy` | `6/15/15` | `mediumDate` | `MMM d, y` | `Jun 15, 2015` | `longDate` | `MMMM d, y` | `June 15, 2015` | `fullDate` | `EEEE, MMMM d, y` | `Monday, June 15, 2015` | `shortTime` | `h:mm a` | `9:03 AM` | `mediumTime` | `h:mm:ss a` | `9:03:01 AM` | `longTime` | `h:mm:ss a z` | `9:03:01 AM GMT+1` | `fullTime` | `h:mm:ss a zzzz` | `9:03:01 AM GMT+01:00`
###
Custom format options
You can construct a format string using symbols to specify the
components of a date-time value, as described in the following table.
Format details depend on the locale.
Fields marked with (*) are only available in the extra data set for the given locale.
Field type
Format	Description	Example
Value	-----
Era	G, GG & GGG	Abbreviated
AD	GGGG	Wide
Anno Domini	GGGGG	Narrow
A	Year	y	Numeric: minimum
digits	2, 20, 201, 2017, 20173	yy	Numeric:
2 digits + zero padded	02, 20, 01, 17, 73	yyy	Numeric: 3 digits + zero padded
002, 020, 201, 2017, 20173	yyyy	Numeric: 4 digits or more
+ zero padded | 0002, 0020, 0201, 2017, 20173 | Week-numbering year | Y
| Numeric: minimum digits | 2, 20, 201, 2017, 20173 |
```

|                                 |                                                                   |                                         |                                 |
|---------------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------|
| YY                              | Numeric: 2 digits + zero padded                                   | 02, 20, 01, 17, 73                      | \n *                            |
| YYYY                            | Numeric: 3 digits + zero padded                                   | 002, 020, 201, 2017, 20173              |                                 |
| \n *                            | YYYY                                                              | Numeric: 4 digits or more + zero padded |                                 |
| 0002, 0020, 0201, 2017, 20173   | \n *                                                              | Month                                   | M                               |
| 9, 12                           | \n *                                                              | MM                                      | Numeric: 2 digits + zero padded |
| 09, 12                          | \n *                                                              | MMM                                     | Abbreviated                     |
| Sep                             | \n *                                                              | MMMM                                    | Wide                            |
| September                       | \n *                                                              | MMMMM                                   | Narrow                          |
| S                               | \n *                                                              | Month standalone                        | L                               |
| 1 digit                         |                                                                   |                                         | Numeric:                        |
| 9, 12                           | \n *                                                              | LL                                      | Numeric: 2 digits + zero padded |
| 09, 12                          | \n *                                                              | LLL                                     | Abbreviated                     |
| Sep                             | \n *                                                              | LLLL                                    | Wide                            |
| September                       | \n *                                                              | LLLLL                                   | Narrow                          |
| S                               | \n *                                                              | Week of year                            | w                               |
| 1... 53                         | \n *                                                              | ww                                      | Numeric: 2 digits + zero padded |
| 01... 53                        | \n *                                                              | Week of month                           | W                               |
| 1... 5                          | \n *                                                              | Day of month                            | d                               |
| minimum digits                  | 1                                                                 | \n *                                    | dd                              |
| Numeric: 2 digits + zero padded | 01                                                                | \n *                                    | Week day                        |
| E, EE & EEE   Abbreviated       | Tue                                                               | \n *                                    |                                 |
| EEEE   Wide                     | Tuesday                                                           | \n *                                    |                                 |
| EEEEE   Narrow                  |                                                                   |                                         |                                 |
| T                               | \n *                                                              | EEEEEEE                                 | Short                           |
| Tu                              | \n *                                                              | Week day standalone                     | c, cc                           |
| 2                               | \n *                                                              | ccc                                     | Abbreviated                     |
| Tue                             | \n *                                                              | cccc                                    | Wide                            |
| Tuesday                         | \n *                                                              | ccccc                                   | Narrow                          |
| T                               | \n *                                                              | cccccc                                  | Short                           |
| Tu                              | \n *                                                              | Period                                  | a, aa & aaa   Abbreviated       |
| am/pm or AM/PM                  | \n *                                                              | aaaa                                    | Wide                            |
| (fallback to `a` when missing)  | ante meridiem/post meridiem                                       | \n *                                    |                                 |
| aaaaa   Narrow                  | a/p                                                               | \n *                                    | Period*                         |
| B, BB & BBB   Abbreviated       | mid.                                                              | \n *                                    |                                 |
| BBBB   Wide                     | am, pm, midnight, noon, morning, afternoon, evening,              |                                         |                                 |
| night   \n *                    | BBBBBB   Narrow                                                   |                                         |                                 |
| md                              | \n *                                                              | Period standalone*                      | b, bb & bbb                     |
| Abbreviated                     | mid.                                                              | \n *                                    | bbbb                            |
| Wide                            | am, pm, midnight, noon, morning, afternoon, evening, night   \n * |                                         |                                 |
| bbbbb   Narrow                  | md                                                                | \n *                                    | Hour 1-                         |
| 12   h                          | Numeric: minimum digits                                           | 1, 12                                   | \n *                            |
| hh                              | Numeric: 2 digits + zero padded                                   | 01, 12                                  | \n                              |
| *   Hour 0-23                   | H                                                                 | Numeric:                                |                                 |
| minimum digits                  | 0, 23                                                             | \n *                                    | HH                              |
| Numeric: 2 digits + zero padded | 00, 23                                                            | \n *                                    | Minute                          |
| m                               | Numeric: minimum digits                                           | 8, 59                                   | \n *                            |
| mm                              | Numeric: 2 digits + zero padded                                   | 08, 59                                  | \n *                            |

```

Second | s | Numeric: minimum digits | 0... 59
|\n * | | ss | Numeric: 2 digits + zero padded | 00... 59
|\n * | Fractional seconds | S
| Numeric: 1 digit | 0... 9 | \n * | | SS |
Numeric: 2 digits + zero padded | 00... 99 | \n * | | SSS
| Numeric: 3 digits + zero padded (= milliseconds) | 000... 999 | \n * |
Zone | z, zz & zzz | Short specific non location format (fallback to O) | GMT-8
|\n * | | zzzz | Long specific non location format (fallback to OOOO) | GMT-08:00
|\n * | | Z, ZZ & ZZZ | ISO8601 basic format | -
0800 | \n * | | ZZZZ
| Long localized GMT format | GMT-8:00 | \n * |
| ZZZZZ | ISO8601 extended format + Z indicator for offset 0 (= XXXXX) | -08:00
|\n * | | O, OO & OOO | Short localized GMT format | GMT-8
|\n * | | OOOO | Long localized GMT format | GMT-
08:00 | \n *\n *\n * ### Format examples\n *\n * These examples transform a date into
various formats,\n * assuming that `dateObj` is a JavaScript `Date` object for\n * year: 2015, month: 6, day: 15,
hour: 21, minute: 43, second: 11,\n * given in the local time for the `en-US` locale.\n *\n * ``\n * {{ dateObj | date
}} // output is 'Jun 15, 2015'\n *
{{ dateObj | date:'medium' }} // output is 'Jun 15, 2015, 9:43:11 PM'\n * {{ dateObj | date:'shortTime' }} //
output is '9:43 PM'\n * {{ dateObj | date:'mm:ss' }} // output is '43:11'\n *\n * ### Usage example\n *\n *
The following component uses a date pipe to display the current date in different formats.\n *\n * ``\n *
@Component({\n * selector: 'date-pipe',\n * template: `<div>\n * <p>Today is {{today | date}}</p>\n * <p>Or
if you prefer, {{today | date:'fullDate'}}</p>\n * <p>The time is {{today | date:'h:mm a z'}}</p>\n * </div>\n *
})\n * // Get the current date and time as a date-time value.\n * export class DatePipeComponent {\n * today:
number = Date.now();\n * }\n * ``\n *\n * @publicApi\n * /\n // clang-format on\n @Pipe({name: 'date', pure:
true})\n export class DatePipe implements PipeTransform {\n constructor(\n @Inject(LOCALE_ID) private
locale: string,\n @Inject(DATE_PIPE_DEFAULT_TIMEZONE) @Optional() private defaultTimezone?:
string|null) {\n\n /**\n * @param value The date expression: a `Date` object, a number\n * (milliseconds since
UTC epoch), or an ISO string (https://www.w3.org/TR/NOTE-datetime).\n * @param format The date/time
components to include, using predefined options or a\n * custom format string.\n * @param timezone A timezone
offset (such as `+0430`), or a standard UTC/GMT, or continental US\n * timezone abbreviation. When not
supplied, either the value of the `DATE_PIPE_DEFAULT_TIMEZONE`\n * injection token is used or the end-
user's local system timezone.\n * @param locale A locale code for the locale format rules to use.\n * When not
supplied, uses the value of `LOCALE_ID`, which is `en-US` by default.\n * See [Setting your app
locale](guide/i18n-common-locale-id).\n * @returns A date string in the desired format.\n */\n transform(value:
Date|string|number, format?: string, timezone?: string, locale?: string): string|\n |null;\n transform(value:
null|undefined,
format?: string, timezone?: string, locale?: string): null;\n transform(\n value: Date|string|number|null|undefined,
format?: string, timezone?: string,\n locale?: string): string|null;\n transform(\n value:
Date|string|number|null|undefined, format = 'mediumDate', timezone?: string,\n locale?: string): string|null {\n
if (value == null || value === '' || value !== value) return null;\n\n try {\n return formatDate(\n value,
format, locale || this.locale, timezone ?? this.defaultTimezone ?? undefined);\n } catch (error) {\n throw
invalidPipeArgumentError(DatePipe, (error as Error).message);\n }\n }\n\n /**\n * @license\n * Copyright
Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n
* found in the LICENSE file at https://angular.io/license\n */\n\n import {Pipe, PipeTransform} from
'@angular/core';\n\n import {getPluralCategory, NgLocalization} from './i18n/localization';\n\n import
{invalidPipeArgumentError} from './invalid_pipe_argument_error';\n\n const _INTERPOLATION_REGEXP:
RegExp = /#\{#\}\n\n /**\n * @ngModule CommonModule\n * @description\n *\n * Maps a value to a string that

```



pluralizes the value according to locale rules.

```

\n * @usageNotes\n * ### Example\n * {\n * @example\n * common/pipes/ts/i18n_pipe.ts region='I18nPluralPipeComponent'\n * @publicApi\n * /\n * @Pipe({name: 'i18nPlural', pure: true})\n * export class I18nPluralPipe implements PipeTransform {\n * constructor(private\n * _localization: NgLocalization)\n * {\n * }\n * /**\n * * @param value the number to be formatted\n * * @param pluralMap\n * an object that mimics the ICU format, see\n * * http://userguide.icu-project.org/formatparse/messages.\n * * @param\n * locale a `string` defining the locale to use (uses the current {\n * @link LOCALE_ID} by\n * * default).\n * /\n * transform(value: number|null|undefined, pluralMap: {[count: string]: string}, locale?: string):\n * string {\n * if\n * (value\n * == null) return '';\n * if (typeof pluralMap !== 'object' || pluralMap === null) {\n * throw\n * invalidPipeArgumentError(I18nPluralPipe, pluralMap);\n * }\n * const key = getPluralCategory(value,\n * Object.keys(pluralMap), this._localization, locale);\n * return\n * pluralMap[key].replace(_INTERPOLATION_REGEXP, value.toString());\n * }\n * }\n * /**\n * * @license\n * * Copyright Google LLC All Rights Reserved.\n * * Use of this source code is governed by an MIT-style license\n * * that can be\n * * found in the LICENSE file at https://angular.io/license\n * /\n * import {Pipe, PipeTransform} from\n * '@angular/core';\n * import {InvalidPipeArgumentError} from './invalid_pipe_argument_error';\n * /\n * * @ngModule CommonModule\n * * @description\n * * Generic selector that displays the string that matches the\n * * current value.\n * * If none of the keys of the `mapping` match the `value`, then the content\n * * of the `other` key\n * * is returned when present, otherwise an empty string is returned.\n * /\n * * @usageNotes\n * *\n * * ### Example\n * *\n * * {\n * * @example\n * * common/pipes/ts/i18n_pipe.ts region='I18nSelectPipeComponent'\n * * @publicApi\n * * /\n * * @Pipe({name: 'i18nSelect', pure: true})\n * * export class I18nSelectPipe implements PipeTransform\n * * {\n * * /**\n * * * @param value a string to be internationalized.\n * * * @param mapping an object that indicates the text\n * * * that should be displayed\n * * * for different values of the provided `value`.\n * * * /\n * * transform(value:\n * * string|null|undefined, mapping: {[key: string]: string}): string {\n * * if (value == null) return '';\n * * if (typeof\n * * mapping !== 'object' || typeof value !== 'string') {\n * * throw invalidPipeArgumentError(I18nSelectPipe,\n * * mapping);\n * * }\n * * if (mapping.hasOwnProperty(value)) {\n * * return mapping[value];\n * * }\n * * if\n * * (mapping.hasOwnProperty('other')) {\n * * return mapping['other'];\n * * }\n * * return '';\n * * }\n * * }\n * * /**\n * * * @license\n * * * Copyright Google LLC All Rights Reserved.\n * * * Use of this source code is governed by an MIT-\n * * * style\n * * * license that can be\n * * * found in the LICENSE file at https://angular.io/license\n * * /\n * * import {Pipe, PipeTransform}\n * * * from '@angular/core';\n * * /\n * * * @ngModule CommonModule\n * * * @description\n * * * Converts a value into its\n * * * JSON-format representation. Useful for debugging.\n * * * @usageNotes\n * * * The following component uses a\n * * * JSON pipe to convert an object\n * * * to JSON format, and displays the string in both formats for comparison.\n * * *\n * * * {\n * * * @example\n * * * common/pipes/ts/json_pipe.ts region='JsonPipe'\n * * * @publicApi\n * * * /\n * * * @Pipe({name: 'json', pure:\n * * * false})\n * * * export class JsonPipe implements PipeTransform {\n * * * /**\n * * * * @param value A value of any type to\n * * * * convert into a JSON-format string.\n * * * * /\n * * * transform(value: any): string {\n * * * return JSON.stringify(value, null,\n * * * 2);\n * * * }\n * * * }\n * * * /\n * * * * @license\n * * * * Copyright Google LLC All Rights Reserved.\n * * * * Use of this source code is\n * * * * governed by an MIT-style license that can be\n * * * * found in the LICENSE file at https://angular.io/license\n * * * /\n * * * import {KeyValueChangeRecord, KeyValueChanges, KeyValueDiffer, KeyValueDiffer, Pipe,\n * * * PipeTransform} from '@angular/core';\n * * * function makeKeyValuePair<K, V>(key: K, value: V): KeyValue<K, V>\n * * * {\n * * * return {key: key, value: value};\n * * * }\n * * * /\n * * * * A key value pair.\n * * * * Usually used to represent the key value\n * * * * pairs from a Map or Object.\n * * * * @publicApi\n * * * /\n * * * export interface KeyValue<K, V> {\n * * * key: K;\n * * * value:\n * * * V;\n * * * }\n * * * /\n * * * * @ngModule CommonModule\n * * * @description\n * * * Transforms Object or Map into an array of\n * * * key value pairs.\n * * * The output array will be ordered by keys.\n * * * By default the comparator will be by Unicode\n * * * point value.\n * * * You can optionally pass a compareFn if your keys are complex types.\n * * * @usageNotes\n * * * ###\n * * * Examples\n * * * This examples show how an Object or a Map can be iterated by ngFor with the use of this\n * * * keyvalue pipe.\n * * * {\n * * * @example\n * * * common/pipes/ts/keyvalue_pipe.ts region='KeyValuePipe'\n * * * @publicApi\n * * * /\n * * * @Pipe({name:

```

```

'keyvalue', pure: false}})
export class KeyValuePipe implements PipeTransform {
 constructor(private readonly differs: KeyValueDiffers) {}

 private differ!: KeyValueDiffer<any, any>;
 private keyValues:
 Array<KeyValue<any, any>> = [];
 private compareFn: (a: KeyValue<any, any>, b: KeyValue<any, any>) =>
 number = defaultComparator;

 /*
 * NOTE: when the `input` value is a simple Record<K, V> object, the keys
 * are extracted with
 * Object.keys(). This means that even if the `input` type is Record<number, V> the keys are
 * compared/returned as `string`s.
 */
 transform<K, V>(<input: ReadonlyMap<K, V>,> compareFn?: (a:
 KeyValue<K, V>, b: KeyValue<K, V>) => number): Array<KeyValue<K, V>>;
 transform<K extends number,
 V>(<input: Record<K, V>,> compareFn?: (a: KeyValue<string, V>, b: KeyValue<string, V>) => number):
 Array<KeyValue<string, V>>;
 transform<K extends string, V>(<input: Record<K, V>|ReadonlyMap<K,
 V>,> compareFn?:
 (a: KeyValue<K, V>, b: KeyValue<K, V>) => number): Array<KeyValue<K, V>>;
 transform(<input:
 null|undefined,> compareFn?: (a: KeyValue<unknown, unknown>, b: KeyValue<unknown, unknown>) =>
 number): null;
 transform<K, V>(<input: ReadonlyMap<K, V>|null|undefined,> compareFn?: (a:
 KeyValue<K, V>, b: KeyValue<K, V>) => number): Array<KeyValue<K, V>>|null;
 transform<K extends
 number, V>(<input: Record<K, V>|null|undefined,> compareFn?: (a: KeyValue<string, V>, b:
 KeyValue<string, V>) => number): Array<KeyValue<string, V>>|null;
 transform<K extends string, V>(<input: Record<K, V>|ReadonlyMap<K, V>|null|undefined,>
 compareFn?: (a: KeyValue<K, V>, b:
 KeyValue<K, V>) => number): Array<KeyValue<K, V>>|null;
 transform<K, V>(<input:
 undefined|null|{[key: string]: V, [key: number]: V}|ReadonlyMap<K, V>,>
 compareFn: (a: KeyValue<K, V>, b:
 KeyValue<K, V>) => number = defaultComparator): Array<KeyValue<K,
 V>>|null {
 if (!input || !(input instanceof Map) && typeof input !== 'object') {
 return null;
 }
 if (!this.differ) {
 // make a differ for whatever type we've been passed in
 this.differ =
 this.differs.find(input).create();
 }
 const differChanges: KeyValueChanges<K, V>|null =
 this.differ.diff(input as any);
 const compareFnChanged = compareFn !== this.compareFn;
 if (differChanges) {
 this.keyValues = [];
 differChanges.forEachItem((r: KeyValueChangeRecord<K, V>) => {
 this.keyValues.push(makeKeyValuePair(r.key, r.currentValue!));
 });
 }
 if (differChanges ||
 compareFnChanged) {
 this.keyValues.sort(compareFn);
 this.compareFn = compareFn;
 }
 return
 this.keyValues;
 }
}

export function defaultComparator<K, V>(<keyValueA: KeyValue<K, V>,
 keyValueB: KeyValue<K, V>): number {
 const a = keyValueA.key;
 const b = keyValueB.key;
 // if same
 exit with 0;

 if (a === b) return 0;
 // make sure that undefined are at the end of the sort.
 if (a === undefined) return 1;
 if (b === undefined) return -1;
 // make sure that nulls are at the end of the sort.
 if (a === null) return 1;
 if (b === null) return -1;
 if (typeof a === 'string' && typeof b === 'string') {
 return a < b ? -1 : 1;
 }
 if (typeof a === 'number' && typeof b === 'number') {
 return a - b;
 }
 if (typeof a === 'boolean' && typeof b === 'boolean') {
 return a < b ? -1 : 1;
 }
 // `a` and `b` are of different types. Compare their string values.
 const aString = String(a);
 const bString = String(b);
 return aString === bString ? 0 : aString < bString ? -1 : 1;
}

/**
 * @license
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 * style license that can be
 * found in the LICENSE file at https://angular.io/license
 */
import {
 DEFAULT_CURRENCY_CODE, Inject, LOCALE_ID, Pipe, PipeTransform
} from '@angular/core';
import {formatCurrency, formatNumber, formatPercent} from
 '../i18n/format_number';
import {getCurrencySymbol} from '../i18n/locale_data_api';
import {invalidPipeArgumentError} from './invalid_pipe_argument_error';
import {NgModule} from '@ngModule CommonModule';
import {
 @description
 * Formats a value according to digit options and locale rules.
 * Locale determines group sizing
 and separator,
 * decimal point character, and other locale-specific configurations.
 * @see
 `formatNumber`
 * @usageNotes
 * ### digitsInfo
 * The value's decimal representation is
 specified by the `digitsInfo`
 * parameter, written in the following format:

 * - `minIntegerDigits`
 * The
 minimum number of integer digits before the decimal point.
 * Default is 1.
 * - `minFractionDigits`
 * The

```

minimum number of digits after the decimal point.\n \* Default is 0.\n

\*\n \* - `maxFractionDigits`: The maximum number of digits after the decimal point.\n \* Default is 3.\n \*\n \* If the formatted value is truncated it will be rounded using the "to-nearest" method:\n \*\n \* ```\n \* {{3.6 | number: '1.0-0'}}\n \* <!--will output '4'-->\n \*\n \* {{-3.6 | number: '1.0-0'}}\n \* <!--will output '-4'-->\n \*\n \* ```\n \*\n \* ### locale\n \*\n \* `locale` will format a value according to locale rules.\n \* Locale determines group sizing and separator,\n \* decimal point character, and other locale-specific configurations.\n \*\n \* When not supplied, uses the value of `LOCALE\_ID`, which is `en-US` by default.\n \*\n \* See [Setting your app locale](guide/i18n-common-locale-id).\n \*\n \* ### Example\n \*\n \* The following code shows how the pipe transforms values\n \* according to various format specifications,\n \* where the caller's default locale is `en-US`.\n \*\n \* <code-example path="common/pipes/ts/number\_pipe.ts" region="NumberPipe">\n \*\n \* @publicApi\n \*\n \* @NgModule\n \* export class DecimalPipe implements PipeTransform {\n \* constructor(@Inject(LOCALE\_ID) private \_locale: string) {}\n \*\n \* transform(value: number|string, digitsInfo?: string, locale?: string): string|null;\n \* transform(value: null|undefined, digitsInfo?: string, locale?: string): null;\n \* transform(value: number|string|null|undefined, digitsInfo?: string, locale?: string): string|null;\n \* }\n \*\n \* @param value The value to be formatted.\n \* @param digitsInfo Sets digit and decimal representation.\n \* [See more](#digitsinfo).\n \* @param locale Specifies what locale format rules to use.\n \* [See more](#locale).\n \*\n \* transform(value: number|string|null|undefined, digitsInfo?: string, locale?: string): string\n \* |null {\n \* if (!isValue(value)) return null;\n \*\n \* locale = locale || this.\_locale;\n \*\n \* try {\n \* const num = strToNumber(value);\n \* return formatNumber(num, locale, digitsInfo);\n \* } catch (error) {\n \* throw invalidPipeArgumentError(DecimalPipe, (error as Error).message);\n \* }\n \* }\n \*\n \* @ngModule CommonModule\n \* @description\n \*\n \* Transforms a number to a percentage\n \* string, formatted according to locale rules that determine group sizing and\n \* separator, decimal-point character, and other locale-specific\n \* configurations.\n \*\n \* @see `formatPercent()`\n \*\n \* @usageNotes\n \* The following code shows how the pipe transforms numbers\n \* into text strings, according to various format specifications,\n \* where the caller's default locale is `en-US`.\n \*\n \* <code-example path="common/pipes/ts/percent\_pipe.ts" region="PercentPipe">\n \*\n \* @publicApi\n \*\n \* @NgModule\n \* export class PercentPipe implements PipeTransform {\n \* constructor(@Inject(LOCALE\_ID) private \_locale: string) {}\n \*\n \* transform(value: number|string, digitsInfo?: string, locale?: string): string|null;\n \* transform(value: null|undefined, digitsInfo?: string, locale?: string): null;\n \* transform(value: number|string|null|undefined, digitsInfo?: string, locale?: string): string|null;\n \* }\n \*\n \* @param value The number to be formatted as a percentage.\n \* @param digitsInfo Decimal representation options, specified by a string\n \* in the following format:  
\n \* <code>{minIntegerDigits}.{minFractionDigits}-{maxFractionDigits}</code>.\n \* - `minIntegerDigits`: The minimum number of integer digits before the decimal point.\n \* Default is `1`.\n \* - `minFractionDigits`: The minimum number of digits after the decimal point.\n \* Default is `0`.\n \* - `maxFractionDigits`: The maximum number of digits after the decimal point.\n \* Default is `0`.\n \* @param locale A locale code for the locale format rules to use.\n \* When not supplied, uses the value of `LOCALE\_ID`, which is `en-US` by default.\n \* See [Setting your app locale](guide/i18n-common-locale-id).\n \*\n \* transform(value: number|string|null|undefined, digitsInfo?: string, locale?: string): string\n \* |null {\n \* if (!isValue(value)) return null;\n \* locale = locale || this.\_locale;\n \* try {\n \* const num = strToNumber(value);\n \* return formatPercent(num, locale, digitsInfo);\n \* } catch (error) {\n \* throw invalidPipeArgumentError(PercentPipe, (error as Error).message);\n \* }\n \* }\n \*\n \* @ngModule CommonModule\n \* @description\n \*\n \* Transforms a number to a currency string, formatted according to locale rules\n \* that determine group sizing and separator, decimal-point character,\n \* and other locale-specific configurations.\n \*\n \* { @a currency-code-deprecation }\n \* <div class="alert is-helpful">\n \*\n \* \*\*\*Deprecation notice:\*\*\*\n \*\n \* The default currency code is currently always `USD` but this is deprecated from v9.\n \*\n \* \*\*\*In v11 the default currency code will be taken from the current locale identified by\n \* the `LOCALE\_ID` token. See the [i18n guide](guide/i18n-common-locale-id) for\n \* more information.\*\*\*\n \*\n \* If you

need the previous behavior then set it by creating a `DEFAULT\_CURRENCY\_CODE` provider in your application `NgModule`:

```

@NgModule({
 providers: [
 { provide: DEFAULT_CURRENCY_CODE, useValue: 'USD' }
]
})

```

The following code shows how the pipe transforms numbers into text strings, according to various format specifications, where the caller's default locale is `en-US`.

**Example**

```

path="common/pipes/ts/currency_pipe.ts" region="CurrencyPipe"
export class CurrencyPipe implements PipeTransform {
 constructor(
 @Inject(LOCALE_ID) private _locale: string,
 @Inject(DEFAULT_CURRENCY_CODE) private _defaultCurrencyCode: string = 'USD'
) {}

 transform(
 value: number | string,
 currencyCode?: string,
 display?: 'code' | 'symbol' | 'symbol-narrow' | string | boolean,
 digitsInfo?: string,
 locale?: string
): string | null {
 return transform(
 value,
 null,
 undefined,
 currencyCode,
 display,
 'code' | 'symbol' | 'symbol-narrow' | string | boolean,
 digitsInfo,
 locale
);
 }

 transform(
 value: number | string | null | undefined,
 currencyCode?: string,
 display?: 'code' | 'symbol' | 'symbol-narrow' | string | boolean,
 digitsInfo?: string,
 locale?: string
): string | null {
 /**
 * @param value The number to be formatted as currency.
 * @param currencyCode The [ISO 4217](https://en.wikipedia.org/wiki/ISO_4217) currency code, such as `USD` for the US dollar and `EUR` for the euro. The default currency code can be configured using the `DEFAULT_CURRENCY_CODE` injection token.
 * @param display The format for the currency indicator. One of the following:
 * - `code`: Show the code (such as `USD`).
 * - `symbol` (default): Show the symbol (such as `$`).
 * - `symbol-narrow`: Use the narrow symbol for locales that have two symbols for their currency. For example, the Canadian dollar CAD has the symbol `CA$` and the symbol-narrow `$`. If the locale has no narrow symbol, uses the standard symbol for the locale.
 * - String: Use the given string value instead of a code or a symbol. For example, an empty string will suppress the currency & symbol.
 * - Boolean (marked deprecated in v5): `true` for symbol and false for `code`.
 * @param digitsInfo Decimal representation options, specified by a string in the following format:
 * <code>{minIntegerDigits}.{minFractionDigits}-{maxFractionDigits}</code>
 * - `minIntegerDigits`: The minimum number of integer digits before the decimal point. Default is `1`.
 * - `minFractionDigits`: The minimum number of digits after the decimal point. Default is `2`.
 * - `maxFractionDigits`: The maximum number of digits after the decimal point. Default is `2`.
 * If not provided, the number will be formatted with the proper amount of digits, depending on what the [ISO 4217](https://en.wikipedia.org/wiki/ISO_4217) specifies. For example, the Canadian dollar has 2 digits, whereas the Chilean peso has none.
 * @param locale A locale code for the locale format rules to use. When not supplied, uses the value of `LOCALE_ID`, which is `en-US` by default. See [Setting your app locale](guide/i18n-common-locale-id).
 */
 transform(
 value: number | string | null | undefined,
 currencyCode: string = this._defaultCurrencyCode,
 display: 'code' | 'symbol' | 'symbol-narrow' | string | boolean = 'symbol',
 digitsInfo?: string,
 locale?: string
): string | null {
 if (!isValue(value)) return null;

 locale = locale || this._locale;

 if (typeof display === 'boolean') {
 if ((typeof ngDevMode === 'undefined' || ngDevMode) && console.warn) {
 console.warn('Warning: the currency pipe has been changed in Angular v5. The symbolDisplay option (third parameter) is now a string instead of a boolean. The accepted values are \'code\', \'symbol\' or \'symbol-narrow\'.');
 }
 display = display ? 'symbol' : 'code';
 }

 let currency: string = currencyCode || this._defaultCurrencyCode;
 if (display !== 'code') {
 if (display === 'symbol' || display === 'symbol-narrow') {
 currency = getCurrencySymbol(currency, display === 'symbol' ? 'wide' : 'narrow', locale);
 } else {
 currency = display;
 }
 }

 try {
 const num = strToNumber(value);
 return formatCurrency(num, locale, currency, currencyCode, digitsInfo);
 } catch (error) {
 throw invalidPipeArgumentError(CurrencyPipe, (error as Error).message);
 }
 }
 }

 isValue(value: number | string | null | undefined): value is number | string {
 return !(value == null || value === '' || value !== value);
 }
}

```

**Transforms a string**

```

into a number (if needed).\n *\nfunction strToNumber(value: number|string): number {\n // Convert strings to
numbers\n if (typeof value === 'string' && !isNaN(Number(value) - parseFloat(value))) {\n return
Number(value);\n }\n if (typeof value !== 'number') {\n throw new Error(`${value} is not a number`);\n }\n
return value;\n}\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nimport {Pipe, PipeTransform} from '@angular/core';\nimport {InvalidPipeArgumentError} from
'/invalid_pipe_argument_error';\n\n/**\n * @ngModule CommonModule\n * @description\n *\n * Creates a new
`Array` or `String` containing a subset (slice) of the elements.\n *\n * @usageNotes\n *\n * All behavior is based on
the expected behavior of the JavaScript API `Array.prototype.slice()`\n * and `String.prototype.slice()`.\n *\n *
When operating
on an `Array`, the returned `Array` is always a copy even when all\n * the elements are being returned.\n *\n *
When operating on a blank value, the pipe returns the blank value.\n *\n * ### List Example\n *\n * This `ngFor`
example:\n *\n * {@example common/pipes/ts/slice_pipe.ts region='SlicePipe_list'}\n *\n * produces the
following:\n *\n * ``html\n * <li>b</li>\n * <li>c</li>\n * ``\n *\n * ### String Examples\n *\n * {@example
common/pipes/ts/slice_pipe.ts region='SlicePipe_string'}\n *\n * @publicApi\n *\n * @Pipe({name: 'slice', pure:
false}))\n\nexport class SlicePipe implements PipeTransform {\n /**\n * @param value a list or a string to be
sliced.\n * @param start the starting index of the subset to return:\n * - **a positive integer**: return the item at
`start` index and all items after\n * in the list or string expression.\n * - **a negative integer**: return the item
at `start` index from the end and all items after\n * in the list or string
expression.\n * - **if positive and greater than the size of the expression**: return an empty list or\n * string.\n
* - **if negative and greater than the size of the expression**: return entire list or string.\n * @param end the
ending index of the subset to return:\n * - **omitted**: return all items until the end.\n * - **if positive**:
return all items before `end` index of the list or string.\n * - **if negative**: return all items before `end` index
from the end of the list or string.\n */\n transform<T>(value: ReadonlyArray<T>, start: number, end?: number):
Array<T>;\n transform(value: null|undefined, start: number, end?: number): null;\n transform<T>(value:
ReadonlyArray<T>|null|undefined, start: number, end?: number): Array<T>|null;\n transform(value: string, start:
number, end?: number): string;\n transform(value: string|null|undefined, start: number, end?: number): string|null;\n
transform<T>(value: ReadonlyArray<T>|string|null|undefined, start:
number, end?: number):\n Array<T>|string|null {\n if (value == null) return null;\n\n if
(!this.supports(value)) {\n throw invalidPipeArgumentError(SlicePipe, value);\n }\n\n return value.slice(start,
end);\n }\n\n private supports(obj: any): boolean {\n return typeof obj === 'string' || Array.isArray(obj);\n
}\n}\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\n/**\n * @module\n * @description\n * This module provides a set of common Pipes.\n */\n\nimport
{AsyncPipe} from './async_pipe';\nimport {LowerCasePipe, TitleCasePipe, UpperCasePipe} from
'/case_conversion_pipes';\nimport {DATE_PIPE_DEFAULT_TIMEZONE, DatePipe} from './date_pipe';\nimport
{I18nPluralPipe} from './i18n_plural_pipe';\nimport {I18nSelectPipe} from './i18n_select_pipe';\nimport {JsonPipe}
from './json_pipe';\nimport {KeyValue,
KeyValuePipe} from './keyvalue_pipe';\nimport {CurrencyPipe, DecimalPipe, PercentPipe} from
'/number_pipe';\nimport {SlicePipe} from './slice_pipe';\n\nexport {\n AsyncPipe,\n CurrencyPipe,\n
DATE_PIPE_DEFAULT_TIMEZONE,\n DatePipe,\n DecimalPipe,\n I18nPluralPipe,\n I18nSelectPipe,\n
JsonPipe,\n KeyValue,\n KeyValuePipe,\n LowerCasePipe,\n PercentPipe,\n SlicePipe,\n TitleCasePipe,\n
UpperCasePipe,\n};\n\n/**\n * A collection of Angular pipes that are likely to be used in each and every
application.\n */\n\nexport const COMMON_PIPES = [\n AsyncPipe,\n UpperCasePipe,\n LowerCasePipe,\n
JsonPipe,\n SlicePipe,\n DecimalPipe,\n PercentPipe,\n TitleCasePipe,\n CurrencyPipe,\n DatePipe,\n
I18nPluralPipe,\n I18nSelectPipe,\n KeyValuePipe,\n];\n"/**\n * @license\n * Copyright Google LLC All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport

```

```

{NgModule} from '@angular/core';\n\nimport {COMMON_DIRECTIVES} from './directives/index';\nimport
{COMMON_PIPES} from './pipes/index';\n\n\n// Note: This does not contain the location providers,\n// as they
need some platform specific implementations to work.\n\n/**\n * Exports all the basic Angular directives and pipes,\n
* such as `NgIf`, `NgForOf`, `DecimalPipe`, and so on.\n * Re-exported by `BrowserModule`, which is included
automatically in the root\n * `AppModule` when you create a new app with the CLI `new` command.\n *\n * The
`providers` options configure the NgModule's injector to provide\n * localization dependencies to members.\n *\n
The `exports` options make the declared directives and pipes available for import\n * by other NgModules.\n *\n
*/\n\n@publicApi\n * /\n@NgModule({\n declarations: [COMMON_DIRECTIVES, COMMON_PIPES],\n exports:
[COMMON_DIRECTIVES, COMMON_PIPES],\n})\nexport class CommonModule {\n}\n\n"/**\n * @license\n *
Copyright Google LLC All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n
*/\n\nexport const PLATFORM_BROWSER_ID = 'browser';\nexport const
PLATFORM_SERVER_ID = 'server';\nexport const PLATFORM_WORKER_APP_ID =
'browserWorkerApp';\nexport const PLATFORM_WORKER_UI_ID = 'browserWorkerUi';\n\n\n/**\n * Returns
whether a platform id represents a browser platform.\n *\n * @publicApi\n */\nexport function
isPlatformBrowser(platformId: Object): boolean {\n return platformId ===
PLATFORM_BROWSER_ID;\n}\n\n\n/**\n * Returns whether a platform id represents a server platform.\n *\n
*/\n\n@publicApi\n */\nexport function isPlatformServer(platformId: Object): boolean {\n return platformId ===
PLATFORM_SERVER_ID;\n}\n\n\n/**\n * Returns whether a platform id represents a web worker app platform.\n *\n
*/\n\n@publicApi\n */\nexport function isPlatformWorkerApp(platformId: Object): boolean {\n return platformId ===
PLATFORM_WORKER_APP_ID;\n}\n\n\n/**\n *
Returns whether a platform id represents a web worker UI platform.\n *\n * @publicApi\n */\nexport function
isPlatformWorkerUi(platformId: Object): boolean {\n return platformId ===
PLATFORM_WORKER_UI_ID;\n}\n\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n
*/\n\n\n@module\n * @description\n * Entry point for all public APIs of the
common package.\n *\n\nimport {Version} from '@angular/core';\n\n\n/**\n * @publicApi\n */\nexport const
VERSION = new Version('13.2.7');\n\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n
*/\n\n\nimport {defineInjectable, inject} from '@angular/core';\nimport {DOCUMENT}
from './dom_tokens';\n\n\n\n/**\n * Defines a scroll position manager.
Implemented by `BrowserViewportScroller`.\n *\n */\n\n@publicApi\n */\nexport abstract class ViewportScroller {\n
 // De-sugared tree-shakable injection\n // See #23917\n /** @nocollapse */\n static prov = /**
 @pureOrBreakMyCode */\n defineInjectable({\n token: ViewportScroller,\n providedIn: 'root',\n factory: () =>
new BrowserViewportScroller(inject(DOCUMENT), window)\n });\n\n\n /**\n * Configures the top offset used
when scrolling to an anchor.\n *\n * @param offset A position in screen coordinates (a tuple with x and y values)\n
* or a function that returns the top offset position.\n *\n */\n abstract setOffset(offset: [number, number])(): =>
[number, number];\n\n\n /**\n * Retrieves the current scroll position.\n *\n * @returns A position in screen
coordinates (a tuple with x and y values).\n *\n */\n abstract getScrollPosition(): [number, number];\n\n\n /**\n
* Scrolls to a specified position.\n *\n * @param position A position in screen coordinates (a tuple
with x and y values).\n *\n */\n abstract scrollToPosition(position: [number, number]): void;\n\n\n /**\n *
Scrolls to an anchor element.\n *\n * @param anchor The ID of the anchor element.\n *\n */\n abstract
scrollToAnchor(anchor: string): void;\n\n\n /**\n * Disables automatic scroll restoration provided by the browser.\n
* See also
[window.history.scrollRestoration\n * info](https://developers.google.com/web/updates/2015/09/history-api-scroll-restoration).\n
*\n */\n abstract setHistoryScrollRestoration(scrollRestoration: 'auto'|'manual'): void;\n}\n\n\n\n/**\n *
Manages the scroll position for a browser window.\n *\n */\nexport class BrowserViewportScroller implements
ViewportScroller {\n private offset: () => [number, number] = () => [0, 0];\n\n constructor(private document:
Document, private window: Window) {\n}\n\n\n /**\n * Configures the top offset used when scrolling to an anchor.\n

```

```

* @param offset A position in screen coordinates (a tuple with x and y values)\n * or a function
that returns the top offset position.\n *\n */\n setOffset(offset: [number, number])((() => [number, number])): void
{\n if (Array.isArray(offset)) {\n this.offset = () => offset;\n } else {\n this.offset = offset;\n }\n }\n\n
/**\n * Retrieves the current scroll position.\n * @returns The position in screen coordinates.\n */\n
getScrollPosition(): [number, number] {\n if (this.supportsScrolling()) {\n return [this.window.pageXOffset,
this.window.pageYOffset];\n } else {\n return [0, 0];\n }\n }\n\n
/**\n * Sets the scroll position.\n *
@param position The new position in screen coordinates.\n */\n scrollToPosition(position: [number, number]):
void {\n if (this.supportsScrolling()) {\n this.window.scrollTo(position[0], position[1]);\n }\n }\n\n
/**\n *
Scrolls to an element and attempts to focus the element.\n *\n * Note that the function name here is misleading in
that the target string may be an ID for
a\n * non-anchor element.\n *\n * @param target The ID of an element or name of the anchor.\n *\n * @see
https://html.spec.whatwg.org/#the-indicated-part-of-the-document\n * @see https://html.spec.whatwg.org/#scroll-
to-fragid\n */\n scrollToAnchor(target: string): void {\n if (!this.supportsScrolling()) {\n return;\n }\n\n
const elSelected = findAnchorFromDocument(this.document, target);\n\n if (elSelected) {\n
this.scrollToElement(elSelected);\n // After scrolling to the element, the spec dictates that we follow the focus
steps for the\n // target. Rather than following the robust steps, simply attempt focus.\n //\n // @see
https://html.spec.whatwg.org/#get-the-focusable-area\n // @see https://developer.mozilla.org/en-
US/docs/Web/API/HTMLForeignElement/focus\n // @see https://html.spec.whatwg.org/#focusable-area\n
elSelected.focus();\n }\n }\n\n
/**\n * Disables automatic scroll restoration provided by
the browser.\n */\n setHistoryScrollRestoration(scrollRestoration: 'auto'|'manual'): void {\n if
(this.supportScrollRestoration()) {\n const history = this.window.history;\n if (history &&
history.scrollRestoration) {\n history.scrollRestoration = scrollRestoration;\n }\n }\n }\n\n
/**\n *
Scrolls to an element using the native offset and the specified offset set on this scroller.\n *\n * The offset can be
used when we know that there is a floating header and scrolling naively to an\n * element (ex: `scrollIntoView`)
leaves the element hidden behind the floating header.\n */\n private scrollToElement(el: HTMLElement): void {\n
const rect = el.getBoundingClientRect();\n const left = rect.left + this.window.pageXOffset;\n const top =
rect.top + this.window.pageYOffset;\n const offset = this.offset();\n this.window.scrollTo(left - offset[0], top -
offset[1]);\n }\n\n
/**\n * We only support scroll restoration when we can get a
hold of window.\n * This means that we do not support this behavior when running in a web worker.\n *\n *
Lifting this restriction right now would require more changes in the dom adapter.\n * Since webworkers aren't
widely used, we will lift it once RouterScroller is\n * battle-tested.\n */\n private supportScrollRestoration():
boolean {\n try {\n if (!this.supportsScrolling()) {\n return false;\n }\n // The `scrollRestoration`
property could be on the `history` instance or its prototype.\n const scrollRestorationDescriptor =
getScrollRestorationProperty(this.window.history) ||\n
getScrollRestorationProperty(Object.getPrototypeOf(this.window.history));\n // We can write to the
`scrollRestoration` property if it is a writable data field or it has a\n // setter function.\n return
!!scrollRestorationDescriptor &&\n !!({scrollRestorationDescriptor.writable ||
scrollRestorationDescriptor.set});\n } catch {\n
return false;\n }\n }\n\n
private supportsScrolling(): boolean {\n try {\n return !!this.window &&
!!this.window.scrollTo && 'pageXOffset' in this.window;\n } catch {\n return false;\n }\n }\n\n
function
getScrollRestorationProperty(obj: any): PropertyDescriptor|undefined {\n return
Object.getOwnPropertyDescriptor(obj, 'scrollRestoration');\n }\n\n
function findAnchorFromDocument(document:
Document, target: string): HTMLElement|null {\n const documentResult = document.getElementById(target) ||
document.getElementsByName(target)[0];\n\n if (documentResult) {\n return documentResult;\n }\n\n //
`getElementById` and `getElementsByName` won't pierce through the shadow DOM so we\n // have to traverse the
DOM manually and do the lookup through the shadow roots.\n if (typeof document.createTreeWalker ===
'function' && document.body &&\n ((document.body as any).createShadowRoot ||
document.body.attachShadow)) {\n const treeWalker = document.createTreeWalker(document.body,

```

```

function SHADOW_ELEMENT_FACTORY() {
 let currentNode = treeWalker.currentNode as HTMLElement | null;

 while (currentNode) {
 const shadowRoot = currentNode.shadowRoot;
 if (shadowRoot) {
 // Note that `ShadowRoot` doesn't support `getElementsByName` so we have to fall back to `querySelector`.
 const result = shadowRoot.getElementById(target) || shadowRoot.querySelector(`[name="${target}"]`);
 if (result) {
 return result;
 }
 }
 currentNode = treeWalker.nextNode() as HTMLElement | null;
 }
 return null;
}

/**
 * Provides an empty implementation of the viewport scroller.
 */
export class NullViewportScroller implements ViewportScroller {
 /**
 * Empty implementation
 */
 setOffset(offset: [number, number]) {
 return [number, number];
 }
 /**
 * Empty implementation
 */
 getScrollPosition(): [number, number] {
 return [0, 0];
 }
 /**
 * Empty implementation
 */
 scrollToPosition(position: [number, number]): void {}
 /**
 * Empty implementation
 */
 scrollToAnchor(anchor: string): void {}
 /**
 * Empty implementation
 */
 setHistoryScrollRestoration(scrollRestoration: 'auto' | 'manual'): void {}
}

/**
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 * A wrapper around the `XMLHttpRequest` constructor.
 */
@publicApi
export abstract class XhrFactory {
 abstract build(): XMLHttpRequest;
}

/**
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 * @module
 * @description
 * Entry point for all public APIs of the common package.
 */
export * from './private_export';
export * from './location/index';
export { formatDate } from './i18n/format_date';
export { formatCurrency, formatNumber, formatPercent } from './i18n/format_number';
export { NgLocaleLocalization, NgLocalization } from './i18n/localization';
export { registerLocaleData } from './i18n/locale_data';
export { Plural, NumberFormatStyle, FormStyle, Time, TranslationWidth, FormatWidth, NumberSymbol, WeekDay, getNumberOfCurrencyDigits, getCurrencySymbol, getLocaleDayPeriods, getLocaleDayNames, getLocaleMonthNames, getLocaleId, getLocaleEraNames, getLocaleWeekEndRange, getLocaleFirstDayOfWeek, getLocaleDateFormat, getLocaleDateTimeFormat, getLocaleExtraDayPeriodRules, getLocaleExtraDayPeriods, getLocalePluralCase, getLocaleTimeFormat, getLocaleNumberSymbol, getLocaleNumberFormat, getLocaleCurrencyCode, getLocaleCurrencyName, getLocaleCurrencySymbol, getLocaleDirection } from './i18n/locale_data_api';
export { parseCookieValue as parseCookieValue } from './cookie';
export { CommonModule } from './common_module';
export { NgClass, NgForOf, NgForOfContext, NgIf, NgIfContext, NgPlural, NgPluralCase, NgStyle, NgSwitch, NgSwitchCase, NgSwitchDefault, NgTemplateOutlet, NgComponentOutlet } from './directives/index';
export { DOCUMENT } from './dom_tokens';
export { AsyncPipe, DatePipe, DATE_PIPE_DEFAULT_TIMEZONE, I18nPluralPipe, I18nSelectPipe, JsonPipe, LowerCasePipe, CurrencyPipe, DecimalPipe, PercentPipe, SlicePipe, UpperCasePipe, TitleCasePipe, KeyValuePipe, KeyValue } from './pipes/index';
export { PLATFORM_BROWSER_ID as PLATFORM_BROWSER_ID, PLATFORM_SERVER_ID as PLATFORM_SERVER_ID, PLATFORM_WORKER_APP_ID as PLATFORM_WORKER_APP_ID, PLATFORM_WORKER_UI_ID as PLATFORM_WORKER_UI_ID, isPlatformBrowser, isPlatformServer, isPlatformWorkerApp, isPlatformWorkerUi } from './platform_id';
export { VERSION } from './version';
export { ViewportScroller, NullViewportScroller as NullViewportScroller } from './viewport_scroller';
export { XhrFactory } from './xhr';

/**
 * Copyright Google LLC All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 * @module
 * @description
 * Entry point for all public APIs of this package.
 */
export * from './src/common';

// This file only reexports content of the `src` folder. Keep it that way.
/**
 * Copyright Google LLC All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 * This file is not used to build this module. It is only used during editing by the TypeScript language service and during build for verification. `ngc` replaces this file with

```



production index.ts when it rewrites private symbol\n// names.\n\nexport \* from './public\_api';\n", "/\*\n \* Generated bundle index. Do not edit.\n \*/\n\nexport \* from './index';\n"], "names": ["isListLikeIterable", "stringify", "RuntimeError"], "mappings": ";;;;;;;;;AAAA;;;;;;;;;AAQA,IAAI,IAAI,GAAe,IAAK,CAAC;SAEb,MAAM;IACpB,OAAO,IAAI,CAAC;AACd,CAAC;SAEe,MAAM,CAAC,OAAmB;IACxC,IAAI,GAAG,OAAO,CAAC;AACjB,CAAC;SAEe,iBAAiB,CAAC,OAAmB;IACnD,IAAI,CAAC,IAAI,EAAE;QACT,IAAI,GAAG,OAAO,CAAC;KACbB;AACH,CAAC;AAED;AACa;;;;;;;;;MAMsB,UAAU;;;AC/BhC;;;;AAUA;;;;;;;;;MAQa,QAAQ,GAAG,IAAI,cAAc,CAAW,eAAe;;AClBpE;;;;;;;;;AAYA;;;;;;;;;MA2BsB,gBAAgB;IA4BpC,SAAS,CAAE,gBAAwB;QACjC,MAAM,IAAI,KAAK,CAAC,iBAAiB,CAAC,CAAC;KACpC;;wHA9BmB,gBAAgB;4HAAhB,gBAAgB,cAJxB,UAAU,cAEV,0BAA0B;sGAElB,gBAAgB;kBALrC,UAAU;mBAAC;oBACV,UAAU,EAAE,UAAU;;oBAEtB,UAAU,EAAE,0BAA0B;iBACvC;;SAkCe,0BAA0B;IACxC,OAAO,QAAQ,CAAC,uBAAuB,CAAC,CAAC;AAC3C,CAAC;AAED;;;;;;;;;MAMa,oBAAoB,GAAG,IAAI,cAAc,CAAE,sBAAsB,EAAE;AAsB7F;;;;;;;;;MAUa,gCAAgC,gBAAgB;IAI3D,YAAsC,IAAS;QAC7C,KAAK,EAAE,CAAC;QAD4B,SAAI,GA AJ,IAAI,CAAK;QAE7C,IAAI,CAAC,KAAK,EAAE,CAAC;KACd;;IAID,KAAK;QACF,IAA6B,CAAC,QAAQ,GAAG,MAAM,CAAC,QAAQ,CAAC;QAC1D,IAAI,CAAC,QAAQ,GAAG,MAAM,CAAC,OAAO,CAAC;KACbC;IAEQ,kBAaKb;QACzB,OAAO,MAAM,EAAE,CAAC,WA AW,CAAC,IAAI,CAAC,IAAI,CAAE,CAAC;KACzC;IAEQ,UAAU,CAAC,EAA0B;QAC5C,MAAM,MAAM,GAAG,MAAM,EAAE,CAAC,oBAAoB,CAAC,IAAI,CAAC,IAAI,EAAE,QAAQ,CAAC,CAAC;QACIE,MAAM,CAAC,gBAAgB,CAAC,UAAU,EAAE,EAAE,EAAE,KAAK,CAAC,CAAC;QAC/C,OAAO,MAAM,MAAM,CAAC,mBAAmB,CAAC,UAAU,EAAE,EAAE,CAAC,CAAC;KACzD;IAEQ,YAAY,CAAC,EAA0B;QAC9C,MAAM,MAAM,GAAG,MAAM,EAAE,CAAC,oBAAoB,CAAC,IAAI,CAAC,IAAI,EAAE,QAAQ,CAAC,CAAC;QACIE,MAAM,CAAC,gBAAgB,CAAC,YAAY,EAAE,EAAE,EAAE,KAAK,CAAC,CAAC;QACjD,OAAO,MAAM,MAAM,CAAC,mBAAmB,CAAC,YAAY,EAAE,EAAE,CAAC,CAAC;KAC3D;IAED,IAAa,IAAI;QACf,OAAO,IAAI,CAAC,QAAQ,CAAC,IAAI,CAAC;KAC3B;IACD,IAAa,QAAQ;QACnB,OAAO,IAAI,CAAC,QAAQ,CAAC,QAAQ,CAAC;KAC/B;IACD,IAAa,QAAQ;QACnB,OAAO,IAAI,CAAC,QAAQ,CAAC,QAAQ,CAAC;KAC/B;IACD,IAAa,IAAI;QACf,OAAO,IAAI,CAAC,QAAQ,CAAC,IAAI,CAAC;KAC3B;IACD,IAAa,QAAQ;QACnB,OAAO,IAAI,CAAC,QAAQ,CAAC,QAAQ,CAAC;KAC/B;IACD,IAAa,MAAM;QACjB,OAAO,IAAI,CAAC,QAAQ,CAAC,MAAM,CAAC;KAC7B;IACD,IAAa,IAAI;QACf,OAAO,IAAI,CAAC,QAAQ,CAAC,IAAI,CAAC;KAC3B;IACD,IAAa,QAAQ,CAAC,OAAe;QACnC,IAAI,CAAC,QAAQ,CAAC,QAAQ,GAAG,OAAO,CAAC;KAClC;IAEQ,SAAS,CAAC,KAAU,EAAE,KAAa,EAAE,GAAW;QACvD,IAAI,aAAa,EAAE,EAAE;YACnB,IAAI,CAAC,QAAQ,CAAC,SAAS,CAAC,KAAK,EAAE,KAAK,EAAE,GAAG,CAAC,CAAC;SAC5C;aAAM;YACL,IAAI,CAAC,QAAQ,CAAC,IAAI,GAAG,GAAG,CAAC;SAC1B;KACF;IAEQ,YAAY,CAAC,KAAU,EAAE,KAAa,EAAE,GAAW;QAC1D,IAAI,aAAa,EAAE,EAAE;YACnB,IAAI,CAAC,QAAQ,CAAC,YAAY,CAAC,KAAK,EAAE,KAAK,EAAE,GAAG,CAAC,CAAC;SAC/C;aAAM;YACL,IAAI,CAAC,QAAQ,CAAC,IAAI,GAAG,GAAG,CAAC;SAC1B;KACF;IAEQ,OAAO;QACd,IAAI,CAAC,QAAQ,CAAC,OAAO,EAAE,CAAC;KACzB;IAEQ,IAAI;QACX,IAAI,CAAC,QAAQ,CAAC,IAAI,EAAE,CAAC;KACtB;IAEQ,SAAS,CAAC,mBAA2B,CAAC;QAC7C,IAAI,CAAC,QAAQ,CAAC,EAAE,CAAC,gBAAgB,CAAC,CAAC;KACpC;IAEQ,QAAQ;QACf,OAAO,IAAI,CAAC,QAAQ,CAAC,KAAK,CAAC;KAC5B;;+HA vFU,uBAAuB,kBAId,QAAQ;mIAJb,uBAAuB,cAJtB,UAAU,cAEV,6BAA6B;sGAe9B,uBAAuB;kBALnC,UAAU;mBAAC;oBACV,UAAU,EAAE,UAAU;;oBAEtB,UAAU,EAAE,6BAA6B;iBAC1C;;8BAKc,MAAM;+BAAC,QAAQ;;SAsFd,aAAa;IAC3B,OAAO,CAAC,CAAC,MAAM,CAAC,OAAO,CAAC,SAAS,CAAC;AACpC,CAAC;SACe,6BAA6B;IAC3C,OAAO,IAAI,uBAAuB,CAAC,QAAQ,CAAC,QAAQ,CAAC,CAAC,CAAC;AACzD;;ACjNA;;;;;;;;;ACAA;;;;;;;;;AASA;;;;;;;;;SASgB,aAAa,CAAC,KAAa,EAAE,GAAW;IACtD,IAAI,KAAK,CAAC,MAAM,IAAI,CAAC,EAAE;QACrB,OAAO,GAAG,CAAC;KACZ;IACD,IAAI,GAAG,CAAC,MAAM,IAAI,CAAC,EAAE;QACnB,OAAO,KAAK,CAAC;KACd;IACD,IAAI,OAAO,GAAG,CAAC,CAAC;IACbB,IAAI,KAAK,CAAC,QAAQ,CAAC,GAAG,CAAC,EAAE;QACvB,OAAO,EAAE,CAAC;KACX;IACD,IAAI,GAAG,CAAC,UAAU,CAAC,GAAG,CAAC,EAAE;QACvB,OAAO,EAAE,CAAC;KACX;IACD,IAAI,OAAO,IAAI,CAAC,EAAE;QACbB,OAAO,KAAK,GAAG,GAAG,CAAC,SAAS,CAAC,CAAC,CAAC,CAAC;KACjC;IACD,IAAI,OAAO,IAAI,CAAC,EAAE;QACbB,OAAO,KAAK,GAAG,GAAG,CAAC;KACpB;IACD,OAAO,KAAK,GAAG,GAAG,GAAG,GAAG,CAAC;AAC3B,CAAC;AAED;;;;;;;;;SASgB,kBAaKb,CAAC,GAAW;IAC5C,MAAM,KAAK,GAAG,GAAG,CAAC,KAAK,C



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Found

in path(s):

\* /common-13-2-7-tgz/package/fesm2015/common.mjs.map



No license file was found, but licenses were detected in source scan.

```
/**
 * @license Angular v13.2.7
 * (c) 2010-2022 Google LLC. https://angular.io/
 * License: MIT
 */
/**
 * @license
 * Copyright Google LLC All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */
```

Found in path(s):

```
* /common-13-2-7-tgz/package/fesm2020/upgrade.mjs
* /common-13-2-7-tgz/package/fesm2015/http.mjs
* /common-13-2-7-tgz/package/fesm2015/upgrade.mjs
* /common-13-2-7-tgz/package/fesm2015/testing.mjs
* /common-13-2-7-tgz/package/fesm2020/http.mjs
* /common-13-2-7-tgz/package/fesm2020/testing.mjs
* /common-13-2-7-tgz/package/fesm2015/common.mjs
* /common-13-2-7-tgz/package/fesm2015/http/testing.mjs
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```

No license file was found, but licenses were detected in source scan.

```
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```

```
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nimport {Observable} from 'rxjs';\nimport {HttpRequest} from './request';\nimport {HttpEvent} from './response';\n\n/**\n * Transforms an `HttpRequest` into a stream of `HttpEvent`s, one of which will likely be a\n * `HttpResponse`.\n *\n * `HttpHandler` is injectable. When injected, the handler instance dispatches requests to the\n * first interceptor in the chain, which dispatches to the second, etc, eventually reaching the\n * `HttpBackend`.\n *\n * In an `HttpInterceptor`, the `HttpHandler` parameter is the next interceptor in the chain.\n *\n * @publicApi\n */\nexport abstract class HttpHandler {\n abstract handle(req: HttpRequest<any>): Observable<HttpEvent<any>>;\n}\n\n/**\n * A final `HttpHandler` which will dispatch the request via browser HTTP APIs to a backend.\n *\n * Interceptors sit between the `HttpClient` interface and the `HttpBackend`.\n *\n * When injected, `HttpBackend` dispatches requests directly to the backend, without going\n * through the interceptor chain.\n *\n * @publicApi\n */\nexport abstract class HttpBackend implements HttpHandler {\n abstract handle(req: HttpRequest<any>): Observable<HttpEvent<any>>;\n}\n\n/**\n *
```

```

@license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\ninterface Update {\n
name: string;\n value?: string|string[];\n op: 'a'|'s'|'d';\n}\n\n/**\n * Represents the header configuration options for
an HTTP request.\n * Instances are immutable. Modifying methods return a cloned\n * instance with the change.
The original object is never changed.\n *\n * @publicApi\n */\nexport class HttpHeaders {\n /**\n * Internal map
of lowercase header names to values.\n */\n // TODO(issue/24571): remove '!'.\n private headers!:
Map<string, string[]>;\n\n /**\n * Internal map of lowercased header names to the normalized\n * form of the
name (the form seen first).\n */\n private normalizedNames: Map<string, string> = new Map();\n\n /**\n *
Complete the lazy initialization of this object (needed before reading).\n */\n private lazyInit!:
HttpHeaders|Function|null;\n\n /**\n * Queued updates to be materialized the next initialization.\n */\n private
lazyUpdate: Update[]|null = null;\n\n /**\n * Constructs a new HTTP header object with the given values.*\n\n
constructor(headers?: string|{[name: string]: string | string[]}) {\n if (!headers) {\n this.headers = new
Map<string, string[]>();\n } else if (typeof headers === 'string') {\n this.lazyInit = () => {\n this.headers =
new Map<string, string[]>();\n headers.split('\n').forEach(line => {\n const index = line.indexOf(':');\n
if (index > 0) {\n const name = line.slice(0, index);\n
const key = name.toLowerCase();\n const value = line.slice(index + 1).trim();\n
this.maybeSetNormalizedName(name, key);\n if (this.headers.has(key)) {\n
this.headers.get(key)!.push(value);\n } else {\n this.headers.set(key, [value]);\n }\n }\n
});\n } else {\n this.lazyInit = () => {\n this.headers = new Map<string, string[]>();\n
Object.keys(headers).forEach(name => {\n let values: string|string[] = headers[name];\n const key =
name.toLowerCase();\n if (typeof values === 'string') {\n values = [values];\n }\n if
(values.length > 0) {\n this.headers.set(key, values);\n this.maybeSetNormalizedName(name, key);\n
}\n });\n });\n }\n }\n\n /**\n * Checks for existence of a given header.\n *\n * @param name The
header name to check for existence.\n *\n * @returns True if the header exists, false otherwise.\n */\n has(name: string): boolean {\n this.init();\n return this.headers.has(name.toLowerCase());\n }\n\n /**\n * Retrieves the first value of a given header.\n *\n *
@param name The header name.\n *\n * @returns The value string if the header exists, null otherwise\n */\n
get(name: string): string|null {\n this.init();\n const values = this.headers.get(name.toLowerCase());\n return
values && values.length > 0 ? values[0] : null;\n }\n\n /**\n * Retrieves the names of the headers.\n *\n *
@returns A list of header names.\n */\n keys(): string[] {\n this.init();\n return
Array.from(this.normalizedNames.values());\n }\n\n /**\n * Retrieves a list of values for a given header.\n *\n
* @param name The header name from which to retrieve values.\n *\n * @returns A string of values if the header
exists, null otherwise.\n */\n getAll(name: string): string[]|null {\n this.init();\n return this.headers.get(name.toLowerCase()) || null;\n }\n\n /**\n * Appends a new value to
the existing set of values for a header\n * and returns them in a clone of the original instance.\n *\n * @param
name The header name for which to append the values.\n * @param value The value to append.\n *\n *
@returns A clone of the HTTP headers object with the value appended to the given header.\n */\n append(name:
string, value: string|string[]): HttpHeaders {\n return this.clone({name, value, op: 'a'});\n }\n\n /**\n * Sets or
modifies a value for a given header in a clone of the original instance.\n * If the header already exists, its value is
replaced with the given value\n * in the returned object.\n *\n * @param name The header name.\n * @param
value The value or values to set or override for the given header.\n *\n * @returns A clone of the HTTP headers
object with the newly set header value.\n */\n set(name:
string, value: string|string[]): HttpHeaders {\n return this.clone({name, value, op: 's'});\n }\n\n /**\n * Deletes
values for a given header in a clone of the original instance.\n *\n * @param name The header name.\n *
@param value The value or values to delete for the given header.\n *\n * @returns A clone of the HTTP headers
object with the given value deleted.\n */\n delete(name: string, value?: string|string[]): HttpHeaders {\n return
this.clone({name, value, op: 'd'});\n }\n\n private maybeSetNormalizedName(name: string, lcName: string): void {\n
if (!this.normalizedNames.has(lcName)) {\n this.normalizedNames.set(lcName, name);\n }\n }\n\n

```

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private init(): void {\n if (!!this.lazyInit) {\n if (this.lazyInit instanceof HttpHeaders) {\n this.copyFrom(this.lazyInit);\n } else {\n this.lazyInit();\n }\n this.lazyInit = null;\n if\n (!!this.lazyUpdate) {\n this.lazyUpdate.forEach(update => this.applyUpdate(update));\n this.lazyUpdate = null;\n }\n }\n\n private copyFrom(other: HttpHeaders) {\n other.init();\n Array.from(other.headers.keys()).forEach(key => {\n this.headers.set(key, other.headers.get(key)!);\n this.normalizedNames.set(key, other.normalizedNames.get(key)!);\n });\n }\n\n private clone(update: Update):\n HttpHeaders {\n const clone = new HttpHeaders();\n clone.lazyInit =\n (!!this.lazyInit && this.lazyInit\n instanceof HttpHeaders) ? this.lazyInit : this;\n clone.lazyUpdate = (this.lazyUpdate || []).concat([update]);\n return clone;\n }\n\n private applyUpdate(update: Update): void {\n const key = update.name.toLowerCase();\n switch (update.op) {\n case 'a':\n case 's':\n let value = update.value!;\n if (typeof value === 'string')\n {\n value = [value];\n }\n if (value.length === 0) {\n return;\n }\n this.maybeSetNormalizedName(update.name,\n key);\n const base = (update.op === 'a' ? this.headers.get(key) : undefined) || [];\n base.push(...value);\n this.headers.set(key, base);\n break;\n case 'd':\n const toDelete = update.value as string | undefined;\n if (!toDelete) {\n this.headers.delete(key);\n this.normalizedNames.delete(key);\n } else {\n let\n existing = this.headers.get(key);\n if (!existing) {\n return;\n }\n existing =\n existing.filter(value => toDelete.indexOf(value) === -1);\n if (existing.length === 0) {\n this.headers.delete(key);\n this.normalizedNames.delete(key);\n } else {\n this.headers.set(key,\n existing);\n }\n }\n break;\n }\n }\n\n /**\n * @internal\n * /\n * @param fn (name: string, values:\n * string[]) => void\n */\n this.init();\n Array.from(this.normalizedNames.keys())\n .forEach(key =>\n fn(this.normalizedNames.get(key)!,\n this.headers.get(key)!));\n }\n}\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use\n * of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n * https://angular.io/license\n */\n * A codec for encoding and decoding parameters in URLs.\n * Used by\n * `HttpParams`\n * @publicApi\n */\nexport interface HttpParameterCodec {\n encodeKey(key: string):\n string;\n encodeValue(value: string): string;\n decodeKey(key: string): string;\n decodeValue(value: string):\n string;\n}\n/*\n * Provides encoding and decoding of URL parameter and query-string values.\n * Serializes\n * and parses URL parameter keys and values to encode and decode them.\n * If you pass URL query parameters\n * without encoding,\n * the query parameters can be misinterpreted at the receiving end.\n */\n * @publicApi\n */\nexport class HttpUrlEncodingCodec implements HttpParameterCodec {\n /**\n * Encodes\n * a key name for a URL parameter or query-string.\n * @param key The key name.\n * @returns The encoded key\n * name.\n */\n encodeKey(key: string): string {\n return standardEncoding(key);\n }\n\n /**\n * Encodes the\n * value of a URL parameter or query-string.\n * @param value The value.\n * @returns The encoded value.\n */\n encodeValue(value: string): string {\n return standardEncoding(value);\n }\n\n /**\n * Decodes an encoded\n * URL parameter or query-string key.\n * @param key The encoded key name.\n * @returns The decoded key\n * name.\n */\n decodeKey(key: string): string {\n return decodeURIComponent(key);\n }\n\n /**\n * Decodes\n * an encoded URL parameter or query-string value.\n * @param value The encoded value.\n * @returns The\n * decoded value.\n */\n decodeValue(value: string) {\n return decodeURIComponent(value);\n }\n}\n\nfunction\n paramParser(rawParams: string, codec: HttpParameterCodec): Map<string, string[]> {\n const map = new\n Map<string,\n string[]>();\n if (rawParams.length > 0) {\n // The `window.location.search` can be used while creating an\n instance of the `HttpParams` class\n // (e.g. `new HttpParams({ fromString: window.location.search })`). The\n `window.location.search`\n // may start with the `?` char, so we strip it if it's present.\n const params: string[] =\n rawParams.replace(/^\\/?/, "").split('&');\n params.forEach((param: string) => {\n const eqIdx =\n param.indexOf('=');\n const [key, val]: string[] = eqIdx === -1 ?\n [codec.decodeKey(param), "]:\n [codec.decodeKey(param.slice(0, eqIdx)), codec.decodeValue(param.slice(eqIdx + 1))];\n const list =\n map.get(key) || [];\n list.push(val);\n map.set(key, list);\n });\n }\n return map;\n }\n\n /**\n * Encode input\n * string with standard encodeURIComponent and then un-encode specific characters.\n */\n const

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STANDARD_ENCODING_REGEX = /(\\d[a-f0-9])/gi;
const STANDARD_ENCODING_REPLACEMENTS:
{[x: string]:
 string} = {
 '\n '40': '@',
 '\n '3A': ':',
 '\n '24': '$',
 '\n '2C': ',',
 '\n '3B': ';',
 '\n '2B': '+',
 '\n '3D': '=',
 '\n '3F': '?',
 '\n '2F':
 '/',
};
function standardEncoding(v: string): string {
 return encodeURIComponent(v).replace(
 STANDARD_ENCODING_REGEX, (s, t) => STANDARD_ENCODING_REPLACEMENTS[t] ??
 s);
}
function valueToString(value: string|number|boolean): string {
 return `${value}`;
}
interface
Update {
 param: string;
 value?: string|number|boolean;
 op: 'a'|'d'|'s';
}
/**
 * Options used to construct
an `HttpParams` instance.
 */
@publicApi
export interface HttpParamsOptions {
 /**
 * String
representation of the HTTP parameters in URL-query-string format.
 * Mutually exclusive with `fromObject`.
 */
 fromString?: string;
 /**
 * Object map of the HTTP parameters. Mutually exclusive with `fromString`.
 */
 fromObject?: {[param: string]: string|number|boolean|ReadonlyArray<string|number|boolean>};
 /**
 * Encoding
codec
used to parse and serialize the parameters.
 */
 encoder?: HttpParameterCodec;
 /**
 * An HTTP
request/response body that represents serialized parameters,
per the MIME type `application/x-www-form-urlencoded`.
 */
 body?: string;
}
/**
 * This class is immutable; all mutation operations return a new instance.
 */
@publicApi
export class HttpParams {
 private map: Map<string, string[]>|null;
 private encoder: HttpParameterCodec;
 private updates: Update[]|null = null;
 private cloneFrom: HttpParams|null = null;

 constructor(options:
HttpParamsOptions = {} as HttpParamsOptions) {
 this.encoder = options.encoder || new
 HttpUrlEncodingCodec();
 if (!!options.fromString) {
 if (!!options.fromObject) {
 throw new
 Error(`Cannot specify both fromString and fromObject.`);
 }
 this.map = paramParser(options.fromString,
 this.encoder);
 } else if (!!options.fromObject) {
 this.map = new Map<string, string[]>();
 Object.keys(options.fromObject).forEach(key
 => {
 const value = (options.fromObject as any)[key];
 this.map!.set(key, Array.isArray(value) ? value :
 [value]);
 });
 } else {
 this.map = null;
 }
 }

 /**
 * Reports whether the body includes one or
more values for a given parameter.
 */
 @param param The parameter name.
 @returns True if the parameter
has one or more values,
false if it has no value or is not present.
 */
 has(param: string): boolean {
 this.init();
 return this.map!.has(param);
 }

 /**
 * Retrieves the first value for a parameter.
 */
 @param
param The parameter name.
 @returns The first value of the given parameter,
or `null` if the parameter is
not present.
 */
 get(param: string): string|null {
 this.init();
 const res = this.map!.get(param);
 return
 !!res ? res[0] : null;
 }

 /**
 * Retrieves all values for a parameter.
 */
 @param param The parameter
name.
 @returns
All values in a string array,
or `null` if the parameter not present.
 */
 getAll(param: string): string[]|null {
 this.init();
 return this.map!.get(param) || null;
 }

 /**
 * Retrieves all the parameters for this body.
 */
 @returns The parameter names in a string array.
 */
 keys(): string[] {
 this.init();
 return
 Array.from(this.map!.keys());
 }

 /**
 * Appends a new value to existing values for a parameter.
 */
 @param param The parameter name.
 @param value The new value to add.
 @return A new body with the
appended value.
 */
 append(param: string, value: string|number|boolean): HttpParams {
 return
 this.clone({param, value, op: 'a'});
 }

 /**
 * Constructs a new body with appended values for the given
parameter name.
 */
 @param params parameters and values
 @return A new body with the new value.
 */
 appendAll(params: {[param: string]: string|number|boolean|ReadonlyArray<string|number|boolean>}):
HttpParams {
 const updates: Update[] = [];
 Object.keys(params).forEach(param => {
 const value =
 params[param];
 if (Array.isArray(value)) {
 value.forEach(_value => {
 updates.push({param,
 value: _value, op: 'a'});
 });
 } else {
 updates.push({param, value: value as (string | number |
 boolean), op: 'a'});
 }
 });
 return this.clone(updates);
 }

 /**
 * Replaces the value for a
parameter.
 */
 @param param The parameter name.
 @param value The new value.
 @return A new body
with the new value.
 */
 set(param: string, value: string|number|boolean): HttpParams {
 return
 this.clone({param, value, op: 's'});
 }

 /**
 * Removes a given value or all values from a parameter.
 */
 @param param The parameter name.
 @param value The value to remove, if provided.
 @return A new

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body with the given value removed, or with all values\n
 * removed if no value
is specified.\n
*/\n
delete(param: string, value?: string|number|boolean): HttpParams {\n
 return
this.clone({param, value, op: 'd'});\n
}\n\n
/**\n
 * Serializes the body to an encoded string, where key-value pairs
(separated by `=`) are\n
 * separated by `&`\n
 */\n
toString(): string {\n
 this.init();\n
 return this.keys()\n
.map(key => {\n
 const eKey = this.encoder.encodeKey(key);\n
 // `a: [1]` produces `a=1`\n
 // `b: [1]` produces ``\n
 // `c: [1, 2]` produces `c=1&c=2`\n
 return this.map!.get(key)!.map(value => eKey +
'=' + this.encoder.encodeValue(value))\n
 .join('&');\n
 })\n
 // filter out empty values because `b: []`
produces ``\n
 // which results in `a=1&&c=1&c=2` instead of `a=1&c=1&c=2` if we don't\n
 .filter(param
=> param !== '')\n
 .join('&');\n
}\n\n
private clone(update: Update|Update[]): HttpParams {\n
 const clone =
new HttpParams({encoder:
this.encoder} as HttpParamsOptions);\n
 clone.cloneFrom = this.cloneFrom || this;\n
 clone.updates =
(this.updates || []).concat(update);\n
 return clone;\n
}\n\n
private init() {\n
 if (this.map === null) {\n
 this.map
= new Map<string, string[]>();\n
 }\n
 if (this.cloneFrom !== null) {\n
 this.cloneFrom.init();\n
 this.cloneFrom.keys().forEach(key => this.map!.set(key, this.cloneFrom!.map!.get(key)!));\n
 this.updates!.forEach(update => {\n
 switch (update.op) {\n
 case 'a':\n
 case 's':\n
 const base =
(update.op === 'a' ? this.map!.get(update.param) : undefined) || [];\n
 base.push(valueToString(update.value!));\n
 this.map!.set(update.param, base);\n
 break;\n
 case
'd':\n
 if (update.value !== undefined) {\n
 let base = this.map!.get(update.param) || [];\n
 const
idx = base.indexOf(valueToString(update.value));\n
 if (idx !== -1)\n
 {\n
 base.splice(idx, 1);\n
 }\n
 if (base.length > 0) {\n
 this.map!.set(update.param,
base);\n
 }\n
 } else {\n
 this.map!.delete(update.param);\n
 }\n
 } else {\n
 this.map!.delete(update.param);\n
 break;\n
 }\n
 }\n
 });\n
 this.cloneFrom = this.updates =
null;\n
 }\n
 }\n
 }\n
 },\n
 /**\n
 * @license\n
 * Copyright Google LLC All Rights Reserved.\n
 * Use of this source
code is governed by an MIT-style license that can be\n
 * found in the LICENSE file at https://angular.io/license\n
 *\n
 * A token used to manipulate and access values stored in `HttpContext`.\n
 * @publicApi\n
 *\n
 * @export class HttpContextToken<T> {\n
 * constructor(public readonly defaultValue: () => T) {}\n
 * }\n
 */\n
 *\n
 * Http context stores arbitrary user defined values and ensures type safety without\n
 * actually knowing the types. It is
backed by a `Map` and guarantees
 *\n
 * that keys do not clash.\n
 * This context is mutable and is shared between cloned requests unless explicitly
specified.\n
 *\n
 * @usageNotes\n
 * ### Usage Example\n
 * ```typescript\n
 * // inside cache.interceptors.ts\n
 * export const IS_CACHE_ENABLED = new HttpContextToken<boolean>(() => false);\n
 * export class
CacheInterceptor implements HttpInterceptor {\n
 * intercept(req: HttpRequest<any>, delegate: HttpHandler):
Observable<HttpEvent<any>> {\n
 * if (req.context.get(IS_CACHE_ENABLED) === true) {\n
 * return ...;\n
 * }\n
 * return delegate.handle(req);\n
 * }\n
 * }\n
 * // inside a service\n
 *\n
 * this.httpClient.get('/api/weather', {\n
 * context: new HttpContext().set(IS_CACHE_ENABLED, true)\n
 * }).subscribe(...);\n
 * ```\n
 *\n
 * @publicApi\n
 *\n
 * @export class HttpContext {\n
 * private readonly map = new
Map<HttpContextToken<unknown>, unknown>();\n
 * }\n
 * /**\n
 * * Store a value in the context. If a value is already
present it will be overwritten.\n
 *\n
 * @param token The reference to an instance of `HttpContextToken`.\n
 * @param value The value to
store.\n
 * @returns A reference to itself for easy chaining.\n
 *\n
 * set<T>(token: HttpContextToken<T>,
value: T): HttpContext {\n
 * this.map.set(token, value);\n
 * return this;\n
 * }\n
 * /**\n
 * * Retrieve the value
associated with the given token.\n
 * @param token The reference to an instance of `HttpContextToken`.\n
 *\n
 * @returns The stored value or default if one is defined.\n
 *\n
 * get<T>(token: HttpContextToken<T>): T {\n
 * if (!this.map.has(token)) {\n
 * this.map.set(token, token.defaultValue);\n
 * }\n
 * return this.map.get(token) as
T;\n
 * }\n
 * /**\n
 * * Delete the value associated with the given token.\n
 * @param token The reference to an
instance of `HttpContextToken`.\n
 * @returns A reference to itself for easy chaining.\n
 *\n
 * delete(token:
HttpContextToken<unknown>): HttpContext {\n
 * this.map.delete(token);\n

```

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return this;\n }\n\n /**\n * Checks for existence of a given token.\n * \n * @param token The reference to an
instance of `HttpContextToken`.\n * \n * @returns True if the token exists, false otherwise.\n */\n has(token:
HttpContextToken<unknown>): boolean {\n return this.map.has(token);\n }\n\n /**\n * @returns a list of
tokens currently stored in the context.\n */\n keys(): IterableIterator<HttpContextToken<unknown>> {\n return
this.map.keys();\n }\n}\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this
source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\nimport {HttpContext} from './context';\nimport {HttpHeaders} from
'./headers';\nimport {HttpParams} from './params';\n\n\n/**\n * Construction interface for `HttpRequest`s.\n *\n * All values are optional and will override default values if provided.\n */\ninterface HttpRequestInit {\n headers?:
HttpHeaders;\n context?: HttpContext;\n reportProgress?: boolean;\n params?: HttpParams;\n responseType?:
'arraybuffer'|'blob'|'json'|'text';\n withCredentials?: boolean;\n}\n\n\n/**\n * Determine whether the given HTTP
method may include a body.\n */\nfunction mightHaveBody(method: string): boolean {\n switch (method) {\n
case 'DELETE':\n case 'GET':\n case 'HEAD':\n case 'OPTIONS':\n case 'JSONP':\n return false;\n
default:\n return true;\n }\n}\n\n\n/**\n * Safely assert whether the given value is an ArrayBuffer.\n *\n * In some
execution environments ArrayBuffer is not defined.\n */\nfunction isArrayBuffer(value: any): value is ArrayBuffer {\n
return typeof ArrayBuffer !== 'undefined' && value instanceof ArrayBuffer;\n}\n\n\n/**\n * Safely assert
whether the given value is a Blob.\n *\n * In some execution environments Blob is not defined.\n */\nfunction
isBlob(value: any): value is Blob {\n return typeof Blob !== 'undefined' && value instanceof
Blob;\n}\n\n\n/**\n * Safely assert whether the given value is a FormData instance.\n *\n * In some execution
environments FormData is not defined.\n */\nfunction isFormData(value: any): value is FormData {\n return typeof
FormData !== 'undefined' && value instanceof FormData;\n}\n\n\n/**\n * Safely assert whether the given value is a
URLSearchParams instance.\n *\n * In some execution environments URLSearchParams is not defined.\n */\nfunction
isUrlSearchParams(value: any): value is URLSearchParams {\n return typeof URLSearchParams !==
'undefined' && value instanceof URLSearchParams;\n}\n\n\n/**\n * An outgoing HTTP request with an optional
typed body.\n *\n * `HttpRequest` represents an outgoing request, including URL, method,\n * headers, body, and
other request configuration options. Instances should be\n * assumed to be immutable. To modify a `HttpRequest`,
the `clone`\n * method should be used.\n *\n * @publicApi\n */\nexport class HttpRequest<T> {\n /**\n * The
request body, or `null`
if one isn't set.\n *\n * Bodies are not enforced to be immutable, as they can include a reference to any\n * user-
defined data type. However, interceptors should take care to preserve\n * idempotence by treating them as such.\n */\n
readonly body: T|null = null;\n\n /**\n * Outgoing headers for this request.\n */\n // TODO(issue/24571):
remove '!'.\n readonly headers!: HttpHeaders;\n\n /**\n * Shared and mutable context that can be used by
interceptors\n */\n readonly context!: HttpContext;\n\n /**\n * Whether this request should be made in a way
that exposes progress events.\n *\n * Progress events are expensive (change detection runs on each event) and
so\n * they should only be requested if the consumer intends to monitor them.\n */\n readonly reportProgress:
boolean = false;\n\n /**\n * Whether this request should be sent with outgoing credentials (cookies).\n */\n
readonly withCredentials: boolean = false;\n\n /**\n * The expected
response type of the server.\n *\n * This is used to parse the response appropriately before returning it to\n * the
requestee.\n */\n readonly responseType: 'arraybuffer'|'blob'|'json'|'text' = 'json';\n\n /**\n * The outgoing HTTP
request method.\n */\n readonly method: string;\n\n /**\n * Outgoing URL parameters.\n *\n * To pass a
string representation of HTTP parameters in the URL-query-string format,\n * the `HttpParamsOptions`'
`fromString` may be used. For example:\n *\n * ```\n * new HttpParams({fromString: 'angular=awesome'})\n *
```\n */\n // TODO(issue/24571): remove '!'.\n readonly params!: HttpParams;\n\n /**\n * The outgoing URL
with all URL parameters set.\n */\n readonly urlWithParams: string;\n\n constructor(method:
'DELETE'|'GET'|'HEAD'|'JSONP'|'OPTIONS', url: string, init?: {\n headers?: HttpHeaders,\n context?:
HttpContext,\n reportProgress?: boolean,\n params?: HttpParams,\n responseType?:
'arraybuffer'|'blob'|'json'|'text',\n

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withCredentials?: boolean,\n });\n constructor(method: 'POST'|'PUT'|'PATCH', url: string, body: T|null, init?: {\n
headers?: HttpHeaders,\n context?: HttpContext,\n reportProgress?: boolean,\n params?: HttpParams,\n
responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n });\n constructor(method: string,
url: string, body: T|null, init?: {\n headers?: HttpHeaders,\n context?: HttpContext,\n reportProgress?:
boolean,\n params?: HttpParams,\n responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?:
boolean,\n });\n constructor(\n method: string, readonly url: string, third?: T{\n headers?: HttpHeaders,\n
context?: HttpContext,\n reportProgress?: boolean,\n params?: HttpParams,\n responseType?:
'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n })|null,\n fourth?: {\n headers?:
HttpHeaders,\n context?:
HttpContext,\n reportProgress?: boolean,\n params?: HttpParams,\n responseType?:
'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n }) {\n this.method = method.toUpperCase();\n
// Next, need to figure out which argument holds the HttpRequestInit\n // options, if any.\n let options:
HttpRequestInit|undefined;\n\n // Check whether a body argument is expected. The only valid way to omit\n //
the body argument is to use a known no-body method like GET.\n if (mightHaveBody(this.method) || !!fourth) {\n
// Body is the third argument, options are the fourth.\n this.body = (third !== undefined) ? third as T : null;\n
options = fourth;\n } else {\n // No body required, options are the third argument. The body stays null.\n
options = third as HttpRequestInit;\n }\n\n // If options have been passed, interpret them.\n if (options) {\n //
Normalize reportProgress and withCredentials.\n
this.reportProgress = !!options.reportProgress;\n this.withCredentials = !!options.withCredentials;\n\n //
Override default response type of 'json' if one is provided.\n if (!!options.responseType) {\n
this.responseType = options.responseType;\n }\n\n // Override headers if they're provided.\n if
(!!options.headers) {\n this.headers = options.headers;\n }\n\n if (!!options.context) {\n this.context =
options.context;\n }\n\n if (!!options.params) {\n this.params = options.params;\n }\n }\n\n // If no
headers have been passed in, construct a new HttpHeaders instance.\n if (!this.headers) {\n this.headers = new
HttpHeaders();\n }\n\n // If no context have been passed in, construct a new HttpContext instance.\n if
(!this.context) {\n this.context = new HttpContext();\n }\n\n // If no parameters have been passed in, construct
a new HttpUrlEncodedParams instance.\n
if (!this.params) {\n this.params = new HttpParams();\n this.urlWithParams = url;\n } else {\n // Encode
the parameters to a string in preparation for inclusion in the URL.\n const params = this.params.toString();\n if
(params.length === 0) {\n // No parameters, the visible URL is just the URL given at creation time.\n
this.urlWithParams = url;\n } else {\n // Does the URL already have query parameters? Look for '?'.
const qIdx = url.indexOf('?');\n // There are 3 cases to handle:\n // 1) No existing parameters -> append '?'
followed by params.\n // 2) '?' exists and is followed by existing query string ->\n // append '&' followed
by params.\n // 3) '?' exists at the end of the url -> append params directly.\n // This basically amounts to
determining the character, if any, with\n // which to join the URL and parameters.\n const sep: string = qIdx
=== -1 ? '?' : (qIdx
< url.length - 1 ? '&' : '');\n this.urlWithParams = url + sep + params;\n }\n }\n\n /**\n * Transform
the free-form body into a serialized format suitable for\n * transmission to the server.\n */\n serializeBody():
ArrayBuffer|Blob|FormData|string|null {\n // If no body is present, no need to serialize it.\n if (this.body ===
null) {\n return null;\n }\n // Check whether the body is already in a serialized form. If so,\n // it can just be
returned directly.\n if (isArrayBuffer(this.body) || isBlob(this.body) || isFormData(this.body) ||\n
isUrlSearchParams(this.body) || typeof this.body === 'string') {\n return this.body;\n }\n // Check whether the
body is an instance of HttpUrlEncodedParams.\n if (this.body instanceof HttpParams) {\n return
this.body.toString();\n }\n // Check whether the body is an object or array, and serialize with JSON if so.\n if
(typeof this.body === 'object' || typeof this.body
=== 'boolean' ||\n Array.isArray(this.body)) {\n return JSON.stringify(this.body);\n }\n // Fall back on
toString() for everything else.\n return (this.body as any).toString();\n }\n\n /**\n * Examine the body and
attempt to infer an appropriate MIME type\n * for it.\n * If no such type can be inferred, this method will

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return `null`.n *n detectContentTypeHeader(): string|null {n // An empty body has no content type.n if
(this.body === null) {n return null;n }n // FormData bodies rely on the browser's content type
assignment.n if (isFormData(this.body)) {n return null;n }n // Blobs usually have their own content type.
If it doesn't, then.n // no type can be inferred.n if (isBlob(this.body)) {n return this.body.type || null;n }n
// Array buffers have unknown contents and thus no type can be inferred.n if (isArrayBuffer(this.body)) {n
return null;n }n // Technically,
strings could be a form of JSON data, but it's safe enough.n // to assume they're plain strings.n if (typeof
this.body === 'string') {n return 'text/plain';n }n // `HttpUrlEncodedParams` has its own content-type.n if
(this.body instanceof HttpParams) {n return 'application/x-www-form-urlencoded;charset=UTF-8';n }n //
Arrays, objects, boolean and numbers will be encoded as JSON.n if (typeof this.body === 'object' || typeof
this.body === 'number' ||n typeof this.body === 'boolean') {n return 'application/json';n }n // No type
could be inferred.n return null;n }n\n clone(): HttpRequest<T>;n clone(update: {n headers?:
HttpHeaders,n context?: HttpContext,n reportProgress?: boolean,n params?: HttpParams,n
responseType?: 'arraybuffer'|'blob'|'json'|'text',n withCredentials?: boolean,n body?: T|null,n method?:
string,n url?: string,n setHeaders?: {[name: string]: string|string[]},n
setParams?: {[param: string]: string},n }): HttpRequest<T>;n clone<V>(update: {n headers?:
HttpHeaders,n context?: HttpContext,n reportProgress?: boolean,n params?: HttpParams,n
responseType?: 'arraybuffer'|'blob'|'json'|'text',n withCredentials?: boolean,n body?: V|null,n method?:
string,n url?: string,n setHeaders?: {[name: string]: string|string[]},n setParams?: {[param: string]: string},n
}): HttpRequest<V>;n clone(update: {n headers?: HttpHeaders,n context?: HttpContext,n reportProgress?:
boolean,n params?: HttpParams,n responseType?: 'arraybuffer'|'blob'|'json'|'text',n withCredentials?:
boolean,n body?: any|null,n method?: string,n url?: string,n setHeaders?: {[name: string]:
string|string[]},n setParams?: {[param: string]: string};n } = {}): HttpRequest<any> {n // For method, url, and
responseType, take the current value unless.n // it is overridden in the update hash.n
const method = update.method || this.method;n const url = update.url || this.url;n const responseType =
update.responseType || this.responseType;n // The body is somewhat special - a `null` value in update.body
means.n // whatever current body is present is being overridden with an empty.n // body, whereas an `undefined`
value in update.body implies no.n // override.n const body = (update.body !== undefined) ? update.body :
this.body;n // Carefully handle the boolean options to differentiate between.n // `false` and `undefined` in the
update args.n const withCredentials =n (update.withCredentials !== undefined) ? update.withCredentials :
this.withCredentials;n const reportProgress =n (update.reportProgress !== undefined) ?
update.reportProgress : this.reportProgress;n // Headers and params may be appended to if `setHeaders` or.n //
`setParams` are used.n let headers = update.headers || this.headers;n
let params = update.params || this.params;n // Pass on context if needed.n const context = update.context ??
this.context;n // Check whether the caller has asked to add headers.n if (update.setHeaders !== undefined) {n
// Set every requested header.n headers =n Object.keys(update.setHeaders)n .reduce((headers,
name) => headers.set(name, update.setHeaders![name]), headers);n }n // Check whether the caller has asked
to set params.n if (update.setParams) {n // Set every requested param.n params =
Object.keys(update.setParams)n .reduce((params, param) => params.set(param,
update.setParams![param]), params);n }n // Finally, construct the new HttpRequest using the pieces from
above.n return new HttpRequest(method, url, body, {n params,n headers,n context,n
reportProgress,n responseType,n withCredentials,n });n }n\n", "/*n * @licensen
* Copyright Google LLC All Rights Reserved.n *n * Use of this source code is governed by an MIT-style license
that can be.n * found in the LICENSE file at https://angular.io/license.n */n\nimport {HttpHeaders} from
'./headers';n\n/*n * Type enumeration for the different kinds of `HttpEvent`.n *n * @publicApi\n */n\nexport
enum HttpEventType {n /**n * The request was sent out over the wire.n */n Sent,n /**n * An upload
progress event was received.n */n UploadProgress,n /**n * The response status code and headers were
received.n */n ResponseHeader,n /**n * A download progress event was received.n */n

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DownloadProgress,\n\n /**\n * The full response including the body was received.\n */\n Response,\n\n /**\n * A custom event from an interceptor or a backend.\n */\n User,\n}\n\n/**\n * Base interface for progress events.\n *\n * @publicApi\n */\nexport interface HttpProgressEvent {\n /**\n * Progress event type is either upload or download.\n */\n type: HttpEventType.DownloadProgress|HttpEventType.UploadProgress;\n\n /**\n * Number of bytes uploaded or downloaded.\n */\n loaded: number;\n\n /**\n * Total number of bytes to upload or download. Depending on the request or\n * response, this may not be computable and thus may not be present.\n */\n total?: number;\n}\n\n/**\n * A download progress event.\n *\n * @publicApi\n */\nexport interface HttpDownloadProgressEvent extends HttpProgressEvent {\n type: HttpEventType.DownloadProgress;\n\n /**\n * The partial response body as downloaded so far.\n */\n * Only present if the responseType was `text`.\n */\n partialText?: string;\n}\n\n/**\n * An upload progress event.\n *\n * @publicApi\n */\nexport interface HttpUploadProgressEvent extends HttpProgressEvent {\n type: HttpEventType.UploadProgress;\n}\n\n/**\n * An event indicating that the request was sent to the server. Useful\n * when a request may be retried multiple times, to distinguish between\n * retries on the final event stream.\n *\n * @publicApi\n */\nexport interface HttpSentEvent {\n type: HttpEventType.Sent;\n}\n\n/**\n * A user-defined event.\n *\n * Grouping all custom events under this type ensures they will be handled\n * and forwarded by all implementations of interceptors.\n *\n * @publicApi\n */\nexport interface HttpUserEvent<T> {\n type: HttpEventType.User;\n}\n\n/**\n * An error that represents a failed attempt to JSON.parse text coming back\n * from the server.\n *\n * It bundles the Error object with the actual response body that failed to parse.\n *\n */\nexport interface HttpJsonParseError {\n error: Error;\n text: string;\n}\n\n/**\n * Union type for all possible events on the response stream.\n *\n * Typed according to the expected type of the response.\n *\n * @publicApi\n */\nexport type HttpEvent<T> =\n HttpSentEvent|HttpHeaderResponse|HttpResponse<T>|HttpProgressEvent|HttpUserEvent<T>;\n\n/**\n * Base class for both\n * `HttpResponse` and `HttpHeaderResponse`.\n *\n * @publicApi\n */\nexport abstract class HttpResponseBase {\n /**\n * All response headers.\n */\n readonly headers: HttpHeaders;\n\n /**\n * Response status code.\n */\n readonly status: number;\n\n /**\n * Textual description of response status code, defaults to OK.\n */\n * Do not depend on this.\n */\n readonly statusText: string;\n\n /**\n * URL of the resource retrieved, or null if not available.\n */\n readonly url: string|null;\n\n /**\n * Whether the status code falls in the 2xx range.\n */\n readonly ok: boolean;\n\n /**\n * Type of the response, narrowed to either the full response or the header.\n */\n // TODO(issue/24571): remove '!'.\n readonly type!: HttpEventType.Response|HttpEventType.ResponseHeader;\n\n /**\n * Super-constructor for all responses.\n */\n * The single parameter accepted is an initialization hash. Any properties\n * of the response passed there will override the default values.\n */\n constructor(\n init: {\n headers?: HttpHeaders,\n status?: number,\n statusText?: string,\n url?: string,\n },\n defaultStatus: number = HttpStatusCode.Ok, defaultStatusText: string = 'OK') {\n // If the hash has values passed, use them to initialize the response.\n // Otherwise use the default values.\n this.headers = init.headers || new HttpHeaders();\n this.status = init.status !== undefined ? init.status : defaultStatus;\n this.statusText = init.statusText || defaultStatusText;\n this.url = init.url || null;\n\n // Cache the ok value to avoid defining a getter.\n this.ok = this.status >= 200 && this.status < 300;\n }\n}\n\n/**\n * A partial HTTP response which only includes the status and header data,\n * but no response body.\n *\n * `HttpHeaderResponse` is a `HttpEvent` available on the response\n * event stream, only when progress events are requested.\n *\n * @publicApi\n */\nexport class HttpHeaderResponse extends HttpResponseBase {\n /**\n * Create a new `HttpHeaderResponse` with the given parameters.\n */\n constructor(init: {\n headers?: HttpHeaders,\n status?: number,\n statusText?: string,\n url?: string,\n } = {}) {\n super(init);\n }\n\n override readonly type: HttpEventType.ResponseHeader = HttpEventType.ResponseHeader;\n\n /**\n * Copy this `HttpHeaderResponse`, overriding its contents with the\n * given parameter hash.\n */\n clone(update: {headers?: HttpHeaders; status?: number; statusText?: string; url?: string; } = {}):\n HttpHeaderResponse {\n // Perform a straightforward initialization of the new HttpHeaderResponse,\n // overriding the current parameters with new ones if given.\n return new HttpHeaderResponse({\n headers: update.headers || this.headers,\n status: update.status !== undefined ?

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update.status : this.status,\n    statusText: update.statusText || this.statusText,\n    url: update.url
|| this.url || undefined,\n    });\n }\n}\n\n/**\n * A full HTTP response, including a typed response body (which may
be `null` if one was not returned).\n *\n * `HttpResponse` is a `HttpEvent` available on the response event\n *
stream.\n *\n * @publicApi\n */\nexport class HttpResponse<T> extends HttpResponseBase {\n /**\n * The
response body, or `null` if one was not returned.\n */\n readonly body: T|null;\n\n /**\n * Construct a new
`HttpResponse`.\n */\n constructor(init: {\n body?: T|null,\n headers?: HttpHeaders;\n status?: number;\n
statusText?: string;\n url?: string;\n } = {})\n {\n super(init);\n this.body = init.body !== undefined ? init.body :
null;\n }\n\n override readonly type: HttpEventType.Response = HttpEventType.Response;\n\n clone():
HttpResponse<T>;\n clone(update: {headers?: HttpHeaders; status?: number; statusText?: string; url?: string;});\n
HttpResponse<T>;\n clone<V>(update: {\n body?: V|null,\n headers?:
HttpHeaders;\n status?: number;\n statusText?: string;\n url?: string;\n }): HttpResponse<V>;\n
clone(update: {\n body?: any|null;\n headers?: HttpHeaders;\n status?: number;\n statusText?: string;\n
url?: string;\n } = {}): HttpResponse<any> {\n return new HttpResponse<any>({\n body: (update.body !==
undefined) ? update.body : this.body,\n headers: update.headers || this.headers,\n status: (update.status !==
undefined) ? update.status : this.status,\n statusText: update.statusText || this.statusText,\n url: update.url ||
this.url || undefined,\n });\n }\n}\n\n/**\n * A response that represents an error or failure, either from a\n * non-
successful HTTP status, an error while executing the request,\n * or some other failure which occurred during the
parsing of the response.\n *\n * Any error returned on the `Observable` response stream will be\n * wrapped in an
`HttpErrorResponse` to provide additional context about\n * the
state of the HTTP layer when the error occurred. The error property\n * will contain either a wrapped Error object
or the error response returned\n * from the server.\n *\n * @publicApi\n */\nexport class HttpErrorResponse
extends HttpResponseBase implements Error {\n readonly name = 'HttpErrorResponse';\n readonly message:
string;\n readonly error: any|null;\n\n /**\n * Errors are never okay, even when the status code is in the 2xx
success range.\n */\n override readonly ok = false;\n\n constructor(init: {\n error?: any;\n headers?:
HttpHeaders;\n status?: number;\n statusText?: string;\n url?: string;\n }) {\n // Initialize with a default status
of 0 / Unknown Error.\n super(init, 0, 'Unknown Error');\n\n // If the response was successful, then this was a
parse error. Otherwise, it was\n // a protocol-level failure of some sort. Either the request failed in transit\n // or
the server returned an unsuccessful status code.\n if (this.status
>= 200 && this.status < 300) {\n this.message = `Http failure during parsing for ${init.url || '(unknown url)'}`;
\n } else {\n this.message = `Http failure response for ${init.url || '(unknown url)'}: ${init.status} ${\n
init.statusText}`;\n }\n this.error = init.error || null;\n }\n}\n\n/**\n * Http status codes.\n * As per
https://www.iana.org/assignments/http-status-codes/http-status-codes.xhtml\n *
@publicApi\n */\nexport const
enum HttpStatusCode {\n Continue = 100,\n SwitchingProtocols = 101,\n Processing = 102,\n EarlyHints =
103,\n\n Ok = 200,\n Created = 201,\n Accepted = 202,\n NonAuthoritativeInformation = 203,\n NoContent =
204,\n ResetContent = 205,\n PartialContent = 206,\n MultiStatus = 207,\n AlreadyReported = 208,\n ImUsed =
226,\n\n MultipleChoices = 300,\n MovedPermanently = 301,\n Found = 302,\n SeeOther = 303,\n NotModified
= 304,\n UseProxy = 305,\n Unused = 306,\n TemporaryRedirect = 307,\n PermanentRedirect =
308,\n\n BadRequest = 400,\n Unauthorized = 401,\n PaymentRequired = 402,\n Forbidden = 403,\n NotFound
= 404,\n MethodNotAllowed = 405,\n NotAcceptable = 406,\n ProxyAuthenticationRequired = 407,\n
RequestTimeout = 408,\n Conflict = 409,\n Gone = 410,\n LengthRequired = 411,\n PreconditionFailed = 412,\n
PayloadTooLarge = 413,\n UriTooLong = 414,\n UnsupportedMediaType = 415,\n RangeNotSatisfiable = 416,\n
ExpectationFailed = 417,\n ImATeapot = 418,\n MisdirectedRequest = 421,\n UnprocessableEntity = 422,\n
Locked = 423,\n FailedDependency = 424,\n TooEarly = 425,\n UpgradeRequired = 426,\n PreconditionRequired
= 428,\n TooManyRequests = 429,\n RequestHeaderFieldsTooLarge = 431,\n UnavailableForLegalReasons =
451,\n\n InternalServerError = 500,\n NotImplemented = 501,\n BadGateway = 502,\n ServiceUnavailable =
503,\n GatewayTimeout = 504,\n HttpVersionNotSupported = 505,\n VariantAlsoNegotiates = 506,\n
InsufficientStorage = 507,\n LoopDetected =

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508,\n NotExtended = 510,\n NetworkAuthenticationRequired = 511\n}\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\n\nimport {Injectable} from '@angular/core';\nimport {Observable, of} from 'rxjs';\nimport {concatMap, filter, map} from 'rxjs/operators';\nimport {HttpHandler} from './backend';\nimport {HttpContext} from './context';\nimport {HttpHeaders} from './headers';\nimport {HttpParams, HttpParamsOptions} from './params';\nimport {HttpRequest} from './request';\nimport {HttpEvent, HttpResponse} from './response';\n\n/**\n * Constructs an instance of `HttpRequestOptions<T>` from a source `HttpMethodOptions` and the given `body`. This function clones the object and adds the body.\n * Note that the `responseType` *options* value is a String that identifies the single data type of the response.\n * A single overload version of the method handles each response type.\n * The value of `responseType` cannot be a union, as the combined signature could imply.\n */\nfunction addBody<T>(\n options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[]\n },\n context?: HttpContext,\n observe?: 'body'|'events'|'response',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean,\n responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n },\n body: T|null): any {\n return {\n body,\n headers: options.headers,\n context: options.context,\n observe: options.observe,\n params: options.params,\n reportProgress: options.reportProgress,\n responseType: options.responseType,\n withCredentials: options.withCredentials,\n };\n}\n\n/**\n * Performs HTTP requests.\n * This service is available as an injectable class, with methods to perform HTTP requests.\n * Each request method has multiple signatures, and the return type varies based on the signature that is called (mainly the values of `observe` and `responseType`).\n * Note that the `responseType` *options* value is a String that identifies the single data type of the response.\n * A single overload version of the method handles each response type.\n * The value of `responseType` cannot be a union, as the combined signature could imply.\n */\n\n@usageNotes\n * Sample HTTP requests for the [Tour of Heroes](/tutorial/toh-pt0) application.\n * ### HTTP Request Example\n * ``\n \* // GET heroes whose name contains search term\n \* searchHeroes(term: string): observable<Hero[]>\n \* const params = new HttpParams({fromString: 'name=term'});\n \* return this.httpClient.request('GET', this.heroesUrl, {responseType: 'json', params});\n \* }\n \* ``\n * Alternatively, the parameter string can be used without invoking HttpParams\n * by directly joining to the URL.\n * ``\n \* this.httpClient.request('GET', this.heroesUrl + '?' + 'name=term', {responseType: 'json'});\n \* ``\n * ### JSONP Example\n * ``\n \* requestJsonp(url, callback = 'callback')\n \* {\n \* return this.httpClient.jsonp(this.heroesURL, callback);\n \* }\n \* ``\n * ### PATCH Example\n * ``\n * // PATCH one of the heroes' name\n * patchHero (id: number, heroName: string): Observable<{}>\n * {\n * const url = `\${this.heroesUrl}/\${id}`;\n * // PATCH api/heroes/42\n * return this.httpClient.patch(url, {name: heroName}, httpOptions)\n * .pipe(catchError(this.handleError('patchHero')));\n * }\n * ``\n * @see [HTTP Guide](guide/http)\n * @see [HTTP Request](api/common/http/HttpRequest)\n */\n\n@Injectable()\nexport class HttpClient {\n constructor(private handler: HttpHandler) {}\n\n /**\n * Sends an `HttpRequest` and returns a stream of `HttpEvent`s.\n * @return An `Observable` of the response, with the response body as a stream of `HttpEvent`s.\n */\n request<R>(req: HttpRequest<any>): Observable<HttpEvent<R>>;\n\n /**\n * Constructs a request that interprets the body as an `ArrayBuffer` and returns the response in an `ArrayBuffer`.\n * @param method The HTTP method.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n */\n @return An `Observable` of the response, with the response body as an `ArrayBuffer`.\n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n [header: string]: string | string[]\n },\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean,\n responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<ArrayBuffer>;\n\n /**\n * Constructs a request that interprets the body as a

blob and returns

- * the response as a blob.

`\n * \n * @param method The HTTP method.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * \n * @return An `Observable` of the response, with the response body of type `Blob`.`

`\n * \n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<Blob>;\n\n /**\n * Constructs a request that interprets the body as a text string and\n * returns a string value.\n * \n * @param method The HTTP method.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * \n * @return An `Observable` of the response, with the response body of type string.`

`\n * \n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n }): Observable<string>;\n\n /**\n * Constructs a request that interprets the body as an `ArrayBuffer` and returns the\n * the full event stream.\n * \n * @param method The HTTP method.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * \n * @return An `Observable` of the response, with the response body as an array of `HttpEvent`s for\n * the request.\n * \n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]},\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n observe: 'events',\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpEvent<ArrayBuffer>>;\n\n /**\n * Constructs a request that interprets the body as a `Blob` and returns\n * the full event stream.\n * \n * @param method The HTTP method.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * \n * @return An `Observable` of all `HttpEvent`s for the request,\n * with the response body of type `Blob`.`

`\n * \n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]},\n observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<HttpEvent<Blob>>;\n\n /**\n * Constructs a request which interprets the body as a text string and returns the full event\n * stream.\n * \n * @param method The HTTP method.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * \n * @return An `Observable` of all `HttpEvent`s for the request,\n * with the response body of type string.`

`\n * \n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]},\n observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n }): Observable<HttpEvent<string>>;\n\n /**\n * Constructs a request which interprets the body as a JSON object and returns the full event\n * stream.\n * \n * @param method The HTTP method.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * \n * @return An `Observable` of all `HttpEvent`s for the request,\n * with the response body of type `Object`.`

`\n * \n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]},\n context?: HttpContext,\n reportProgress?: boolean, observe: 'events',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpEvent<any>>;\n\n /**\n * Constructs a request which interprets the body as a JSON object and returns the full event\n * stream.\n * \n * @param method The HTTP method.\n * @param url The endpoint URL.\n * \n * @param options The HTTP options to send with the request.\n * \n * @return An `Observable` of all `HttpEvent`s for the request,\n * with the response body of type `R`.`

`\n * \n request<R>(method: string, url:`

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string, options: {\n  body?: any,\n  headers?: HttpHeaders|{\n    [header: string]: string | string[]\n  },\n  context?:\n  HttpContext,\n  reportProgress?: boolean, observe: 'events',\n  params?: HttpParams|{\n    [param: string]:\n    string | number | boolean | ReadonlyArray<string|number|boolean>,\n  },\n  responseType?: 'json',\n  withCredentials?: boolean,\n  }): Observable<HttpEvent<R>>;\n\n /**\n  * Constructs a request which interprets\n  the body as an `ArrayBuffer`\n  * and returns the full `HttpResponse`.\n  *\n  * @param method The HTTP\n  method.\n  *\n  * @param url The endpoint URL.\n  *\n  * @param options The HTTP options to send with the request.\n  *\n  * @return An `Observable` of the `HttpResponse`, with the response body as an `ArrayBuffer`.\n  */\n  request(method: string, url: string, options: {\n    body?: any,\n    headers?: HttpHeaders|{\n      [header: string]: string | string[]\n    },\n    observe: 'response',\n    context?: HttpContext,\n    params?: HttpParams|{\n      [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n    },\n    reportProgress?: boolean, responseType:\n    'arraybuffer',\n    withCredentials?: boolean,\n  }): Observable<HttpResponse<ArrayBuffer>>;\n\n /**\n  * Constructs a request which interprets the body as a `Blob` and returns the full `HttpResponse`.\n  *\n  * @param method The HTTP method.\n  *\n  * @param url The endpoint URL.\n  *\n  * @param options The HTTP options to send with the request.\n  *\n  * @return An `Observable` of the `HttpResponse`, with the response body of type\n  `Blob`.\n  */\n  request(method: string, url: string, options: {\n    body?: any,\n    headers?: HttpHeaders|{\n      [header: string]: string | string[],\n    },\n    observe: 'response',\n    context?: HttpContext,\n    params?:\n    HttpParams|{\n      [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n    },\n    reportProgress?: boolean, responseType: 'blob',\n    withCredentials?: boolean,\n  }):\n  Observable<HttpResponse<Blob>>;\n\n /**\n  * Constructs a request which interprets the body as a text stream\n  and returns the full\n  * `HttpResponse`.\n  *\n  * @param method The HTTP method.\n  *\n  * @param url The\n  endpoint URL.\n  *\n  * @param options The HTTP options to send with the request.\n  *\n  * @return An\n  `Observable` of the HTTP response, with the response body of type string.\n  */\n  request(method: string, url:\n  string, options: {\n    body?: any,\n    headers?: HttpHeaders|{\n      [header: string]: string | string[],\n    },\n    observe:\n    'response',\n    context?: HttpContext,\n    params?: HttpParams|{\n      [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n    },\n    reportProgress?: boolean, responseType: 'text',\n    withCredentials?:\n    boolean,\n  }):\n  Observable<HttpResponse<string>>;\n\n /**\n  * Constructs a request which interprets the body as a JSON object\n  and returns the full\n  * `HttpResponse`.\n  *\n  * @param method The HTTP method.\n  *\n  * @param url The\n  endpoint URL.\n  *\n  * @param options The HTTP options to send with the request.\n  *\n  * @return An\n  `Observable` of the full `HttpResponse`,\n  * with the response body of type `Object`.\n  */\n  request(method:\n  string, url: string, options: {\n    body?: any,\n    headers?: HttpHeaders|{\n      [header: string]: string | string[],\n    },\n    context?: HttpContext,\n    reportProgress?: boolean, observe: 'response',\n    params?: HttpParams|{\n      [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n    },\n    responseType?: 'json',\n    withCredentials?: boolean,\n  }): Observable<HttpResponse<Object>>;\n\n /**\n  * Constructs a request which\n  interprets the body as a JSON object and returns\n  * the full `HttpResponse` with the response body\n  in the requested type.\n  *\n  * @param method The HTTP method.\n  *\n  * @param url The endpoint URL.\n  *\n  * @param options The HTTP options to send with the request.\n  *\n  * @return An `Observable` of the full\n  `HttpResponse`, with the response body of type `R`.\n  */\n  request<R>(method: string, url: string, options: {\n    body?: any,\n    headers?: HttpHeaders|{\n      [header: string]: string | string[],\n    },\n    context?: HttpContext,\n    reportProgress?: boolean, observe: 'response',\n    params?: HttpParams|{\n      [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n    },\n    responseType: 'json',\n    withCredentials?: boolean,\n  }):\n  Observable<HttpResponse<R>>;\n\n /**\n  * Constructs a request which interprets the body as a JSON object and\n  returns the full\n  * `HttpResponse` as a JSON object.\n  *\n  * @param method The HTTP method.\n  *\n  * @param url The endpoint URL.\n  *\n  * @param options The HTTP options to send with the request.\n  *\n  * @return An `Observable` of the `HttpResponse`, with the response body of type `Object`.\n  */\n  request(method: string, url: string, options?: {\n    body?: any,\n    headers?: HttpHeaders|{\n      [header: string]: string | string[],\n    },\n    context?: HttpContext,\n    observe?: 'body',\n    params?: HttpParams|{\n      [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n    },\n    responseType?: 'json',\n    reportProgress?:

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boolean,\n  withCredentials?: boolean,\n  }): Observable<Object>;\n\n /**\n  * Constructs a request which
  interprets the body as a JSON object\n  * with the response body of the requested type.\n  *\n  * @param method
  The HTTP method.\n  * @param url The endpoint URL.\n  * @param options The HTTP options to send with
  the request.\n  *\n  * @return An `Observable` of the `HttpResponse`, with the response body of type `R`.\n  */\n
request<R>(method: string, url: string, options?: {\n  body?: any,\n  headers?:
  HttpHeaders|{\n    [header: string]: string | string[]\n  },\n  context?: HttpContext,\n  observe?: 'body',\n  params?:
  HttpParams|{\n    [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n  },\n
  responseType?: 'json',\n  reportProgress?: boolean,\n  withCredentials?: boolean,\n  }): Observable<R>;\n\n /**\n
  * Constructs a request where response type and requested observable are not known statically.\n  *\n  * @param
  method The HTTP method.\n  * @param url The endpoint URL.\n  * @param options The HTTP options to
  send with the request.\n  *\n  * @return An `Observable` of the requested response, with body of type `any`.\n
  */\n
request(method: string, url: string, options?: {\n  body?: any,\n  headers?: HttpHeaders|{\n    [header: string]:
  string | string[]\n  },\n  context?: HttpContext,\n  params?: HttpParams|{\n    [param: string]: string | number |
  boolean | ReadonlyArray<string|number|boolean>\n  },\n  observe?: 'body'|'events'|'response',\n
  reportProgress?: boolean,\n  responseType?: 'arraybuffer'|'blob'|'json'|'text',\n  withCredentials?: boolean,\n
  }): Observable<any>;\n\n /**\n  * Constructs an observable for a generic HTTP request that, when subscribed,\n  *
  fires the request through the chain of registered interceptors and on to the\n  * server.\n  *\n  * You can pass an
  `HttpRequest` directly as the only parameter. In this case,\n  * the call returns an observable of the raw `HttpEvent`
  stream.\n  *\n  * Alternatively you can pass an HTTP method as the first parameter,\n  * a URL string as the
  second, and an options hash containing the request body as the third.\n  * See `addBody()`. In this case, the
  specified `responseType` and `observe` options determine the\n  * type of returned observable.\n  * * The
  `responseType` value determines how a successful response body is parsed.\n  * * If `responseType` is the default
  `json`, you can pass a type interface for the resulting\n
  * object as a type parameter to the call.\n  *\n  * The `observe` value determines the return type, according to
  what you are interested in\n  * observing.\n  * * An `observe` value of events returns an observable of the raw
  `HttpEvent` stream, including\n  * progress events by default.\n  * * An `observe` value of response returns an
  observable of `HttpResponse<T>`,\n  * where the `T` parameter depends on the `responseType` and any optionally
  provided type\n  * parameter.\n  * * An `observe` value of body returns an observable of `<T>` with the same `T`
  body type.\n  */\n
request(first: string|HttpRequest<any>, url?: string, options: {\n  body?: any,\n  headers?:
  HttpHeaders|{\n    [header: string]: string | string[]\n  },\n  context?: HttpContext,\n  observe?: 'body'|'events'|'response',\n
  params?: HttpParams|{\n    [param: string]: string | number | boolean |
  ReadonlyArray<string|number|boolean>\n  },\n  reportProgress?: boolean,\n  responseType?:
  'arraybuffer'|'blob'|'json'|'text',\n  withCredentials?: boolean,\n  } = {}): Observable<any> {\n  let req:
  HttpRequest<any>;\n  // First, check whether the primary argument is an instance of `HttpRequest`.\n  if (first
  instanceof HttpRequest) {\n    // It is. The other arguments must be undefined (per the signatures) and can be\n    //
  ignored.\n    req = first;\n  } else {\n    // It's a string, so it represents a URL. Construct a request based on it,\n
  // and incorporate the remaining arguments (assuming `GET` unless a method is\n    // provided.\n\n    // Figure
  out the headers.\n    let headers: HttpHeaders|undefined = undefined;\n    if (options.headers instanceof
  HttpHeaders) {\n      headers = options.headers;\n    } else {\n      headers = new HttpHeaders(options.headers);\n
    }\n\n    // Sort out parameters.\n    let params: HttpParams|undefined = undefined;\n    if (!!options.params) {\n
      if (options.params instanceof HttpParams)\n        {\n          params = options.params;\n        } else {\n
          params = new HttpParams({fromObject: options.params}\n          as HttpParamsOptions);\n        }\n      }\n\n    // Construct the request.\n    req = new HttpRequest(first, url!,\n
    (options.body !== undefined ? options.body : null), {\n      headers,\n      context: options.context,\n      params,\n
      reportProgress: options.reportProgress,\n      // By default, JSON is assumed to be returned for all calls.\n
      responseType: options.responseType || 'json',\n      withCredentials: options.withCredentials,\n    });\n  }\n\n  //
  Start with an Observable.of() the initial request, and run the handler (which\n  // includes all interceptors) inside a
  concatMap(). This way, the handler runs\n  // inside an Observable chain, which causes interceptors to be re-run on

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every\n // subscription (this also makes retries re-run the handler, including interceptors).\n const events$:
Observable<HttpEvent<any>>
=
  of(req).pipe(concatMap((req: HttpRequest<any>) => this.handler.handle(req)));
\n\n // If coming via the
API signature which accepts a previously constructed HttpRequest,\n // the only option is to get the event stream.
Otherwise, return the event stream if\n // that is what was requested.\n if (first instance of HttpRequest ||
options.observe === 'events') {\n return events$;\n }\n\n // The requested stream contains either the full
response or the body. In either\n // case, the first step is to filter the event stream to extract a stream of\n //
responses(s).\n const res$: Observable<HttpResponse<any>> =
<Observable<HttpResponse<any>>>events$.pipe(\n filter((event: HttpEvent<any>) => event instanceof
HttpResponse));\n\n // Decide which stream to return.\n switch (options.observe || 'body') {\n case 'body':\n\n // The requested stream is the body. Map the response stream to the response\n // body. This could
be done more simply, but a misbehaving interceptor might\n // transform the response body into a different
format and ignore the requested\n // responseType. Guard against this by validating that the response is of the\n
// requested type.\n switch (req.responseType) {\n case 'arraybuffer':\n return
res$.pipe(map((res: HttpResponse<any>) => {\n // Validate that the body is an ArrayBuffer.\n if
(res.body !== null && !(res.body instanceof ArrayBuffer)) {\n throw new Error('Response is not an
ArrayBuffer.);\n }\n return res.body;\n }));\n case 'blob':\n return
res$.pipe(map((res: HttpResponse<any>) => {\n // Validate that the body is a Blob.\n if (res.body
!== null && !(res.body instanceof Blob)) {\n throw new Error('Response is not a Blob.);\n }\n
return res.body;\n }));\n case 'text':\n return res$.pipe(map((res: HttpResponse<any>) => {\n // Validate that the
body is a string.\n if (res.body !== null && typeof res.body !== 'string') {\n throw new
Error('Response is not a string.);\n }\n return res.body;\n }));\n case 'json':\n
default:\n // No validation needed for JSON responses, as they can be of any type.\n return
res$.pipe(map((res: HttpResponse<any>) => res.body));\n }\n case 'response':\n // The response stream
was requested directly, so return it.\n return res$;\n default:\n // Guard against new future observe types
being added.\n throw new Error(`Unreachable: unhandled observe type ${options.observe}`);\n }\n }\n\n
/**\n * Constructs a `DELETE` request that interprets the body as an `ArrayBuffer`\n * and returns the response
as an `ArrayBuffer`\n
*\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n
*\n * @return An `Observable` of the response body as an `ArrayBuffer`\n */\n delete(url: string, options: {\n
headers?: HttpHeaders|{[header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n
params?: HttpParams|{\n [param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'arraybuffer',\n
withCredentials?: boolean,\n body?: any|null,\n }): Observable<ArrayBuffer>;\n\n\n /**\n * Constructs a
`DELETE` request that interprets the body as a `Blob` and returns\n * the response as a `Blob`\n */\n * @param
url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An
`Observable` of the response body as a `Blob`\n */\n delete(url: string, options: {\n headers?:
HttpHeaders|{[header: string]:
string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|{\n [param:
string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n
withCredentials?: boolean,\n body?: any|null,\n }): Observable<Blob>;\n\n\n /**\n *
Constructs a `DELETE` request that interprets the body as a text string and returns\n * a string.\n */\n * @param
url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An
`Observable` of the response, with the response body of type string.\n */\n delete(url: string, options: {\n
headers?: HttpHeaders|{[header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n
params?: HttpParams|{\n [param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?:

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boolean,\n body?: any|null,\n }): Observable<string>;\n\n /**\n * Constructs a `DELETE` request that interprets the body as an `ArrayBuffer`\n * and returns the full event stream.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of all `HttpEvent`s for the request,\n * with response body as an `ArrayBuffer`.\n */\n delete(url: string, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n }, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n body?: any|null\n }): Observable<HttpEvent<ArrayBuffer>>;\n\n /**\n * Constructs a `DELETE` request that interprets the body as a `Blob`\n * and returns the full event stream.\n *\n * @param url

The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of all the `HttpEvent`s for the request, with the response body as a\n * `Blob`.\n */\n delete(url: string, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n }, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpEvent<Blob>>;\n\n /**\n * Constructs a `DELETE` request that interprets the body as a text string\n * and returns the full event stream.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of all `HttpEvent`s for the request, with the response\n * body of type string.\n */\n delete(url: string, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n }, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpEvent<string>>;\n\n /**\n * Constructs a `DELETE` request that interprets the body as a JSON object\n * and returns the full event stream.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of all `HttpEvent`s for the request, with response body of\n * type `Object`.\n */\n delete(url: string, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n }, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n

reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpEvent<Object>>;\n\n /**\n * Constructs a `DELETE` request that interprets the body as a JSON object\n * and returns the full event stream.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of all the `HttpEvent`s for the request, with a response\n * body in the requested type.\n */\n delete<T>(url: string, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n }, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | (string | number | boolean)[]\n },\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpEvent<T>>;\n\n /**\n * Constructs a `DELETE` request that interprets the body as an `ArrayBuffer` and returns\n * the full `HttpResponse`.\n *\n * @param url

The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the full `HttpResponse`, with the response body as an `ArrayBuffer`.\n */\n delete(url: string, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n }, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpResponse<ArrayBuffer>>;\n\n /**\n * Constructs a `DELETE` request that interprets the body as a `Blob` and returns the full\n * `HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return

An `Observable` of the `HttpResponse`, with the response body of type `Blob`.\n */\n delete(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpResponse<Blob>>;\n\n /**\n * Constructs a `DELETE` request that interprets the body as a text stream and\n * returns the full `HttpResponse`.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * @return An `Observable` of the full `HttpResponse`, with the response body of type string.\n */\n delete(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpResponse<string>>;\n\n /**\n * Constructs a `DELETE` request the interprets the body as a JSON object and returns\n * the full `HttpResponse`.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * @return An `Observable` of the `HttpResponse`, with the response body of type `Object`.\n */\n delete(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpResponse<Object>>;\n\n /**\n * Constructs a `DELETE` request that interprets the body as a JSON object\n * and returns the full `HttpResponse`.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * @return An `Observable` of the `HttpResponse`, with the response body of the requested type.\n */\n delete<T>(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpResponse<T>>;\n\n /**\n * Constructs a `DELETE` request that interprets the body as a JSON object and\n * returns the response body as a JSON object.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * @return An `Observable` of the response, with the response body of type `Object`.\n */\n delete(url: string, options?: {\n headers?: HttpHeaders|[header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<Object>;\n\n /**\n * Constructs a DELETE request that interprets the body as a JSON object and returns\n * the response in a given type.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n * @return An `Observable` of the `HttpResponse`, with response body in the requested type.\n */\n delete<T>(url: string, options?: {\n headers?: HttpHeaders|[header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<T>;\n\n /**\n * Constructs an observable that, when subscribed, causes the configured\n * `DELETE` request to execute on the server. See the individual overloads for\n * details on the return type.\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n */\n delete(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body'|'events'|'response',\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n

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    responseType?: 'arraybuffer'|'blob'|'json'|'text',\n    withCredentials?: boolean,\n    body?: any|null,\n } = {}):
Observable<any> {\n    return this.request<any>('DELETE', url, options as any);\n }\n\n\n /**\n  * Constructs a
`GET` request that interprets the body as an `ArrayBuffer` and returns the\n  * response in an `ArrayBuffer`.\n  *\n  *
@param url The endpoint URL.\n  * @param options The HTTP options to send with the request.\n  *\n  *
@return An `Observable` of the response, with the response body as an `ArrayBuffer`.\n  */\n  get(url: string,
options: {\n    headers?: HttpHeaders|{[header: string]: string | string[]},\n    context?: HttpContext,\n    observe?:
'body',\n    params?: HttpParams|\n        {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n    reportProgress?: boolean, responseType: 'arraybuffer',\n
withCredentials?: boolean,\n }): Observable<ArrayBuffer>;\n\n\n /**\n  * Constructs a `GET` request that
interprets the body as a `Blob`.\n  * and returns the response as a `Blob`.\n  *\n  * @param url The endpoint
URL.\n  * @param options The HTTP options to send with the request.\n  *\n  * @return An `Observable` of the
response, with the response body as a `Blob`.\n  */\n  get(url: string, options: {\n    headers?: HttpHeaders|{[header:
string]: string | string[]},\n    context?: HttpContext,\n    observe?: 'body',\n    params?: HttpParams|\n        {[param:
string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n    reportProgress?: boolean,
responseType: 'blob',\n    withCredentials?: boolean,\n }): Observable<Blob>;\n\n\n /**\n  * Constructs a `GET`
request that interprets the body as a text string\n  * and returns the response as a string value.\n  *\n  * @param url
The endpoint URL.\n  * @param options The HTTP options to send with the request.\n  *\n  * @return An
`Observable` of the response, with the response body of type string.\n
  */\n  get(url: string, options: {\n    headers?: HttpHeaders|{[header: string]: string | string[]},\n    context?:
HttpContext,\n    observe?: 'body',\n    params?: HttpParams|\n        {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n    reportProgress?: boolean, responseType: 'text',\n    withCredentials?:
boolean,\n }): Observable<string>;\n\n\n /**\n  * Constructs a `GET` request that interprets the body as an
`ArrayBuffer` and returns\n  * the full event stream.\n  *\n  * @param url The endpoint URL.\n  * @param
options The HTTP options to send with the request.\n  *\n  * @return An `Observable` of all `HttpEvent`s for the
request, with the response\n  * body as an `ArrayBuffer`.\n  */\n  get(url: string, options: {\n    headers?:
HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n    context?: HttpContext,\n    params?:
HttpParams|\n        {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
    reportProgress?: boolean, responseType: 'arraybuffer',\n    withCredentials?: boolean,\n }):
Observable<HttpEvent<ArrayBuffer>>;\n\n\n /**\n  * Constructs a `GET` request that interprets the body as a
`Blob` and\n  * returns the full event stream.\n  *\n  * @param url The endpoint URL.\n  * @param options
The HTTP options to send with the request.\n  *\n  * @return An `Observable` of the response, with the response
body as a `Blob`.\n  */\n  get(url: string, options: {\n    headers?: HttpHeaders|{[header: string]: string | string[]},
observe: 'events',\n    context?: HttpContext,\n    params?: HttpParams|\n        {[param: string]: string | number |
boolean | ReadonlyArray<string|number|boolean>},\n    reportProgress?: boolean, responseType: 'blob',\n
withCredentials?: boolean,\n }): Observable<HttpEvent<Blob>>;\n\n\n /**\n  * Constructs a `GET` request that
interprets the body as a text string and returns\n  * the full event stream.\n  *\n
  * @param url The endpoint URL.\n  * @param options The HTTP options to send with the request.\n  *\n  *
@return An `Observable` of the response, with the response body of type string.\n  */\n  get(url: string, options: {\n
    headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n    context?: HttpContext,\n
    params?: HttpParams|\n        {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
    reportProgress?: boolean, responseType: 'text',\n    withCredentials?: boolean,\n }):
Observable<HttpEvent<string>>;\n\n\n /**\n  * Constructs a `GET` request that interprets the body as a JSON
object\n  * and returns the full event stream.\n  *\n  * @param url The endpoint URL.\n  * @param options The
HTTP options to send with the request.\n  *\n  * @return An `Observable` of the response, with the response body
of type `Object`.\n  */\n  get(url: string, options: {\n    headers?: HttpHeaders|{[header: string]:
string | string[]}, observe: 'events',\n    context?: HttpContext,\n    params?: HttpParams|\n        {[param: string]:
string | number | boolean | ReadonlyArray<string|number|boolean>},\n    reportProgress?: boolean,\n
responseType?: 'json',\n    withCredentials?: boolean,\n }): Observable<HttpEvent<Object>>;\n\n\n /**\n  *

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Constructs a `GET` request that interprets the body as a JSON object and returns the full event\n * stream.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the response, with a response body in the requested type.\n */\n get<T>(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[], observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpEvent<T>>;\n\n /**\n * Constructs a `GET` request that interprets the body as an `ArrayBuffer` and\n * returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with the response body as an `ArrayBuffer`.\n */\n get(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[], observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpResponse<ArrayBuffer>>;\n\n /**\n * Constructs a `GET` request that interprets the body as a `Blob` and\n * returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with the response body as a `Blob`.\n */\n get(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[], observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<HttpResponse<Blob>>;\n\n /**\n * Constructs a `GET` request that interprets the body as a text stream and\n * returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with the response body of type string.\n */\n get(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[], observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n }): Observable<HttpResponse<string>>;\n\n /**\n * Constructs a `GET` request that interprets the body as a JSON object and\n * returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the full `HttpResponse`,\n * with the response body of type `Object`.\n */\n get(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[], observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<Object>>;\n\n /**\n * Constructs a `GET` request that interprets the body as a JSON object and\n * returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the full `HttpResponse` for the request,\n * with a response body in the requested type.\n */\n get<T>(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[], observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<T>>;\n\n /**\n * Constructs a `GET` request that interprets the body as a JSON object and\n * returns the response body as a JSON object.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the response body as a JSON object.\n */\n get(url: string, options?: {\n headers?: HttpHeaders|[header: string]: string | string[],\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean |

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ReadonlyArray<string|number|boolean>},\n  reportProgress?: boolean,\n  responseType?: 'json',\n  withCredentials?: boolean,\n  }): Observable<Object>;\n\n /**\n  * Constructs a `GET` request that interprets the\n  body as a JSON object and returns\n  * the response body in a given type.\n  *\n  * @param url The endpoint\n  URL.\n  * @param options The HTTP options to send with the request.\n  *\n  * @return An `Observable` of the\n  `HttpResponse`, with a response body in the requested type.\n  */\n  get<T>(url: string, options?: {\n    headers?:\n    HttpHeaders|{\n      header:\n      string\n    } | string[],\n    context?: HttpContext,\n    observe?: 'body',\n    params?: HttpParams|\n    {\n      [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n    reportProgress?:\n    boolean,\n    responseType?: 'json',\n    withCredentials?: boolean,\n    }): Observable<T>;\n\n /**\n  * Constructs an\n  observable that, when subscribed, causes the configured\n  * `GET` request to execute on the server. See the\n  individual overloads for\n  * details on the return type.\n  */\n  get(url: string, options: {\n    headers?:\n    HttpHeaders|{\n      header: string\n    } | string[],\n    context?: HttpContext,\n    observe?: 'body'|'events'|'response',\n    params?: HttpParams|\n    {\n      [param: string]: string | number | boolean |\n      ReadonlyArray<string|number|boolean>},\n    reportProgress?: boolean,\n    responseType?:\n    'arraybuffer'|'blob'|'json'|'text',\n    withCredentials?: boolean,\n    } = {}): Observable<any> {\n    return\n    this.request<any>('GET',\n      url, options as any);\n  }\n\n /**\n  * Constructs a `HEAD` request that interprets the body as an `ArrayBuffer`\n  and\n  * returns the response as an `ArrayBuffer`.\n  *\n  * @param url The endpoint URL.\n  * @param\n  options The HTTP options to send with the request.\n  *\n  * @return An `Observable` of the response, with the\n  response body as an `ArrayBuffer`.\n  */\n  head(url: string, options: {\n    headers?: HttpHeaders|{\n      header: string\n    } | string[],\n    context?: HttpContext,\n    observe?: 'body',\n    params?: HttpParams|\n    {\n      [param: string]: string | number | boolean |\n      ReadonlyArray<string|number|boolean>},\n    reportProgress?: boolean,\n    responseType:\n    'arraybuffer',\n    withCredentials?: boolean,\n    }): Observable<ArrayBuffer>;\n\n /**\n  * Constructs a `HEAD`\n  request that interprets the body as a `Blob` and returns\n  * the response as a `Blob`.\n  *\n  * @param url The\n  endpoint URL.\n  * @param options The HTTP options to send with\n  the request.\n  *\n  * @return An `Observable` of the response, with the response body as a `Blob`.\n  */\n  head(url: string, options: {\n    headers?: HttpHeaders|{\n      header: string\n    } | string[],\n    context?:\n    HttpContext,\n    observe?: 'body',\n    params?: HttpParams|\n    {\n      [param: string]: string | number | boolean |\n      ReadonlyArray<string|number|boolean>},\n    reportProgress?: boolean,\n    responseType: 'blob',\n    withCredentials?:\n    boolean,\n    }): Observable<Blob>;\n\n /**\n  * Constructs a `HEAD` request that interprets the body as a text\n  string and returns the response\n  * as a string value.\n  *\n  * @param url The endpoint URL.\n  * @param\n  options The HTTP options to send with the request.\n  *\n  * @return An `Observable` of the response, with the\n  response body of type string.\n  */\n  head(url: string, options: {\n    headers?: HttpHeaders|{\n      header: string\n    } | string[],\n    context?: HttpContext,\n    observe?: 'body',\n    params?:\n    HttpParams|\n    {\n      [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n    reportProgress?: boolean,\n    responseType: 'text',\n    withCredentials?: boolean,\n    }): Observable<string>;\n\n /**\n  * Constructs a `HEAD` request that interprets the body as an `ArrayBuffer`\n  * and returns the full event\n  stream.\n  *\n  * @param url The endpoint URL.\n  * @param options The HTTP options to send with the\n  request.\n  *\n  * @return An `Observable` of all `HttpEvent`s for the request,\n  * with the response body as an\n  `ArrayBuffer`.\n  */\n  head(url: string, options: {\n    headers?: HttpHeaders|{\n      header: string\n    } | string[],\n    observe: 'events',\n    context?: HttpContext,\n    params?: HttpParams|\n    {\n      [param: string]: string | number |\n      boolean | ReadonlyArray<string|number|boolean>},\n    reportProgress?: boolean,\n    responseType: 'arraybuffer',\n    withCredentials?: boolean,\n    }): Observable<HttpEvent<ArrayBuffer>>;\n\n /**\n  * Constructs a `HEAD` request that interprets the body as a `Blob` and\n  * returns the full event stream.\n  *\n  *\n  * @param url The endpoint URL.\n  * @param options The HTTP options to send with the request.\n  *\n  *\n  * @return An `Observable` of all `HttpEvent`s for the request,\n  * with the response body as a `Blob`.\n  */\n  head(url: string, options: {\n    headers?: HttpHeaders|{\n      header: string\n    } | string[],\n    observe: 'events',\n    context?: HttpContext,\n    params?: HttpParams|\n    {\n      [param: string]: string | number | boolean |

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ReadonlyArray<string|number|boolean>},\n  reportProgress?: boolean, responseType: 'blob',\n  withCredentials?:
boolean,\n  }): Observable<HttpEvent<Blob>>;\n\n /**\n * Constructs a `HEAD` request that interprets the body
as a text string\n * and returns the full event stream.\n * \n * @param url The endpoint URL.\n * @param
options The HTTP options to send with the request.\n * \n * @return An `Observable`
of all `HttpEvent`s for the request, with the response body of type\n * string.\n * \n head(url: string, options: {\n
headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?:
HttpParams|\n      {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n  }):
Observable<HttpEvent<string>>;\n\n /**\n * Constructs a `HEAD` request that interprets the body as a JSON
object\n * and returns the full HTTP event stream.\n * \n * @param url The endpoint URL.\n * @param
options The HTTP options to send with the request.\n * \n * @return An `Observable` of all `HttpEvent`s for the
request, with a response body of\n * type `Object`.\n * \n head(url: string, options: {\n headers?:
HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?:
HttpParams|\n      {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n  }):
Observable<HttpEvent<Object>>;\n\n /**\n * Constructs a `HEAD` request that interprets the body as a JSON
object and\n * returns the full event stream.\n * \n * @return An `Observable` of all the `HttpEvent`s for the
request,\n * with a response body in the requested type.\n * \n * @param url The endpoint URL.\n * @param
options The HTTP options to send with the request.\n * \n head<T>(url: string, options: {\n headers?:
HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?:
HttpParams|\n      {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n  }):
Observable<HttpEvent<T>>;\n\n
/**\n * Constructs a `HEAD` request that interprets the body as an `ArrayBuffer`\n * and returns the full HTTP
response.\n * \n * @param url The endpoint URL.\n * @param options The HTTP options to send with the
request.\n * \n * @return An `Observable` of the `HttpResponse` for the request,\n * with the response body as
an `ArrayBuffer`.\n * \n head(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]},
observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n      {[param: string]: string | number |
boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'arraybuffer',\n
withCredentials?: boolean,\n  }): Observable<HttpResponse<ArrayBuffer>>;\n\n /**\n * Constructs a `HEAD`
request that interprets the body as a `Blob` and returns\n * the full `HttpResponse`.\n * \n * @param url The
endpoint URL.\n * @param options The HTTP options to send
with the request.\n * \n * @return An `Observable` of the `HttpResponse` for the request,\n * with the response
body as a blob.\n * \n head(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]},
observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n      {[param: string]: string | number |
boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n
withCredentials?: boolean,\n  }): Observable<HttpResponse<Blob>>;\n\n /**\n * Constructs a `HEAD` request
that interprets the body as text stream\n * and returns the full `HttpResponse`.\n * \n * @param url The
endpoint URL.\n * @param options The HTTP options to send with the request.\n * \n * @return An
`Observable` of the `HttpResponse` for the request,\n * with the response body of type string.\n * \n head(url:
string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe:
'response',\n context?: HttpContext,\n params?: HttpParams|\n      {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n
withCredentials?: boolean,\n  }): Observable<HttpResponse<string>>;\n\n /**\n * Constructs a `HEAD` request
that interprets the body as a JSON object and\n * returns the full `HttpResponse`.\n * \n * @param url The
endpoint URL.\n * @param options The HTTP options to send with the request.\n * \n * @return An `Observable` of the
`HttpResponse` for the request,\n * with the response body of type `Object`.\n * \n head(url: string, options: {\n
headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n

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params?: HttpParams | { [param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean> }, reportProgress?: boolean, response?: 'json',
withCredentials?:
boolean,
}): Observable<HttpResponse<Object>>;
/**
 * Constructs a `HEAD` request that interprets the
body as a JSON object
 * and returns the full `HttpResponse`.
 * @param url The endpoint URL.
 * @param options The HTTP options to send with the request.
 * @return An `Observable` of the
`HttpResponse` for the request,
 * with a response body of the requested type.
 */
head<T>(url: string,
options: {
  headers?: HttpHeaders | { [header: string]: string | string[] },
  observe: 'response',
  context?:
HttpContext,
  params?: HttpParams | { [param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean> },
  reportProgress?: boolean,
  response?: 'json',
  withCredentials?: boolean,
}): Observable<HttpResponse<T>>;
/**
 * Constructs a `HEAD` request that
interprets the body as a JSON object and
 * returns the response body as a JSON object.
 * @param url
The endpoint
URL.
 * @param options The HTTP options to send with the request.
 * @return An `Observable` of the
response, with the response body as a JSON object.
 */
head(url: string, options?: {
  headers?:
HttpHeaders | { [header: string]: string | string[] },
  context?: HttpContext,
  observe?: 'body',
  params?:
HttpParams | { [param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean> },
  reportProgress?: boolean,
  response?: 'json',
  withCredentials?: boolean,
}): Observable<Object>;
/**
 * Constructs a `HEAD` request that interprets the body as a JSON object and returns
 * the response in a
given type.
 * @param url The endpoint URL.
 * @param options The HTTP options to send with the
request.
 * @return An `Observable` of the `HttpResponse` for the request,
 * with a response body of the
given type.
 */
head<T>(url: string, options?: {
  headers?: HttpHeaders | { [header:
string]: string | string[] },
  context?: HttpContext,
  observe?: 'body',
  params?: HttpParams | { [param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean> },
  reportProgress?:
boolean,
  response?: 'json',
  withCredentials?: boolean,
}): Observable<T>;
/**
 * Constructs an observable that, when subscribed, causes the configured
 * `HEAD` request to execute on the server. The `HEAD`
method returns
 * meta information about the resource without transferring the
 * resource itself. See the
individual overloads for
 * details on the return type.
 */
head(url: string, options: {
  headers?:
HttpHeaders | { [header: string]: string | string[] },
  context?: HttpContext,
  observe?: 'body'|'events'|'response',
  params?: HttpParams | { [param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean> },
  reportProgress?: boolean,
  response?:
'arraybuffer'|'blob'|'json'|'text',
  withCredentials?: boolean,
} = {}): Observable<any> {
  return this.request<any>('HEAD', url, options as
any);
}
/**
 * Constructs a `JSONP` request for the given URL and name of the callback parameter.
 * @param url The resource URL.
 * @param callbackParam The callback function name.
 * @return An
`Observable` of the response object, with response body as an object.
 */
jsonp(url: string, callbackParam:
string): Observable<Object>;
/**
 * Constructs a `JSONP` request for the given URL and name of the
callback parameter.
 * @param url The resource URL.
 * @param callbackParam The callback function
name.
 * You must install a suitable interceptor, such as one provided by `HttpClientJsonpModule`.
 * If
no such interceptor is reached,
 * then the `JSONP` request can be rejected by the configured backend.
 * @return An `Observable` of the response object, with response body
in the requested type.
 */
jsonp<T>(url: string, callbackParam: string): Observable<T>;
/**
 * Constructs an `Observable` that, when subscribed, causes a request with the special method
 * `JSONP` to be
dispatched via the interceptor pipeline.
 * The [JSONP pattern](https://en.wikipedia.org/wiki/JSONP) works
around limitations of certain
 * API endpoints that don't support newer,
 * and preferable
[CORS](https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS) protocol.
 * JSONP treats the endpoint
API as a JavaScript file and tricks the browser to process the
 * requests even if the API endpoint is not located on
the same domain (origin) as the client-side
 * application making the request.
 * The endpoint API must support

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JSONP callback for JSONP requests to work.\n * The resource API returns the JSON response wrapped in a callback function.\n * You can pass the callback function name as one of the query parameters.\n * Note that JSONP requests

can only be used with `GET` requests.\n * \n * @param url The resource URL.\n * @param callbackParam The callback function name.\n * \n * \n jsonp<T>(url: string, callbackParam: string): Observable<T> {\n return this.request<any>('JSONP', url, {\n params: new HttpParams().append(callbackParam, 'JSONP_CALLBACK'),\n observe: 'body',\n responseType: 'json',\n });\n }\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as an\n * `ArrayBuffer` and returns the response as an `ArrayBuffer`.\n * \n * @param url The endpoint URL.\n * @param options HTTP options.\n * \n * @return An `Observable` of the response, with the response body as an `ArrayBuffer`.\n * \n options(url: string, options: {\n headers?: HttpHeaders|{\n header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<ArrayBuffer>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as a `Blob` and returns\n * the response as a `Blob`.\n * \n * @param url The endpoint URL.\n * @param options HTTP options.\n * \n * @return An `Observable` of the response, with the response body as a `Blob`.\n * \n options(url: string, options: {\n headers?: HttpHeaders|{\n header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<Blob>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as a text string and\n * returns a string value.\n * \n * @param url The endpoint URL.\n * @param options HTTP options.\n * \n * @return An `Observable` of the response, with the response body of type string.\n * \n options(url: string, options: {\n headers?: HttpHeaders|{\n header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n }): Observable<string>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as an `ArrayBuffer`\n * and returns the full event stream.\n * \n * @param url The endpoint URL.\n * @param options HTTP options.\n * \n * @return An `Observable` of all `HttpEvent`s for the request,\n * with the response body as an `ArrayBuffer`.\n * \n options(url: string, options: {\n headers?: HttpHeaders|{\n header: string]: string | string[]},\n observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpEvent<ArrayBuffer>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as a `Blob` and\n * returns the full event stream.\n * \n * @param url The endpoint URL.\n * @param options HTTP options.\n * \n * @return An `Observable` of all `HttpEvent`s for the request,\n * with the response body as a `Blob`.\n * \n options(url: string, options: {\n headers?: HttpHeaders|{\n header: string]: string | string[]},\n observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<HttpEvent<Blob>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as a text string\n * and returns the full event stream.\n * \n * @param url The endpoint URL.\n * @param options HTTP options.\n * \n * @return An `Observable` of all the `HttpEvent`s for the request,\n * with the response body of type string.\n * \n options(url: string, options: {\n headers?: HttpHeaders|{\n header: string]: string | string[]},\n observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n }): Observable<HttpEvent<string>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as a JSON

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object\n * and returns the full event stream.\n *\n * @param url The endpoint URL.\n * @param options HTTP
options.\n *\n * @return An `Observable` of all the `HttpEvent`s for the request with the response\n * body of
type `Object`.\n
*/\n options(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe:
'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n
withCredentials?: boolean,\n }): Observable<HttpEvent<Object>>;\n\n /**\n * Constructs an `OPTIONS` request
that interprets the body as a JSON object and\n * returns the full event stream.\n *\n * @param url The endpoint
URL.\n * @param options HTTP options.\n *\n * @return An `Observable` of all the `HttpEvent`s for the
request,\n * with a response body in the requested type.\n */\n options<T>(url: string, options: {\n headers?:
HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?:
HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }):
Observable<HttpEvent<T>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as an
`ArrayBuffer`\n * and returns the full HTTP response.\n *\n * @param url The endpoint URL.\n * @param
options HTTP options.\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with the
response body as an `ArrayBuffer`.\n */\n options(url: string, options: {\n headers?: HttpHeaders|{[header:
string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param:
string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,
responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpResponse<ArrayBuffer>>;\n\n
/**\n * Constructs an `OPTIONS` request that interprets the body as a `Blob`\n * and
returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param options HTTP options.\n
*\n * @return An `Observable` of the `HttpResponse` for the request,\n * with the response body as a `Blob`.\n
*/\n options(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe:
'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?:
boolean,\n }): Observable<HttpResponse<Blob>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets
the body as text stream\n * and returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n *
@param options HTTP options.\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with
the response body of type string.\n */\n options(url: string, options: {\n
headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n
params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?:
boolean,\n }): Observable<HttpResponse<string>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets
the body as a JSON object\n * and returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n *
@param options HTTP options.\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with
the response body of type `Object`.\n */\n options(url: string, options: {\n headers?: HttpHeaders|{[header:
string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param:
string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n
responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<Object>>;\n\n /**\n *
Constructs an `OPTIONS` request that interprets the body as a JSON object and\n * returns the full
`HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param options HTTP options.\n *\n * @return
An `Observable` of the `HttpResponse` for the request,\n * with a response body in the requested type.\n */\n
options<T>(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe:
'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n
withCredentials?: boolean,\n }): Observable<HttpResponse<T>>;\n\n /**\n * Constructs an `OPTIONS` request
that interprets the body as a JSON object and returns the\n * response body as a JSON object.\n *\n * @param

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url The endpoint URL.\n * @param options HTTP options.\n * @return An `Observable` of the response,
with the response body as a JSON object.\n */\n options(url: string, options?: {\n headers?:
HttpHeaders|{\n header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?:
HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<Object>;\n\n
/**\n * Constructs an `OPTIONS` request that interprets the body as a JSON object and returns the\n * response
in a given type.\n * @param url The endpoint URL.\n * @param options HTTP options.\n * @return
An `Observable` of the `HttpResponse`, with a response body of the given type.\n */\n options<T>(url: string,
options?: {\n headers?: HttpHeaders|{\n header: string]: string | string[]},\n context?: HttpContext,\n
observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n
withCredentials?: boolean,\n }): Observable<T>;\n\n /**\n * Constructs an `Observable` that, when subscribed,
causes the configured\n * `OPTIONS` request to execute on the server. This method allows the client\n * to
determine the supported HTTP methods and other capabilities of an endpoint,\n * without implying a resource
action. See the individual overloads for\n * details on the return type.\n */\n options(url: string, options: {\n
headers?: HttpHeaders|{\n header: string]: string | string[]},\n context?: HttpContext,\n observe?:
'body'|'events'|'response',\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?:
'arraybuffer'|'blob'|'json'|'text',\n
withCredentials?: boolean,\n } = {}): Observable<any> {\n return this.request<any>('OPTIONS', url, options
as any);\n }\n\n /**\n * Constructs a `PATCH` request that interprets the body as an `ArrayBuffer` and returns\n
* the response as an `ArrayBuffer`.\n * @param url The endpoint URL.\n * @param body The resources to
edit.\n * @param options HTTP options.\n * @return An `Observable` of the response, with the response
body as an `ArrayBuffer`.\n */\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n header:
string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param:
string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,
responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<ArrayBuffer>;\n\n /**\n *
Constructs a `PATCH` request that interprets the body as a `Blob`
and returns the response\n * as a `Blob`.\n * @param url The endpoint URL.\n * @param body The
resources to edit.\n * @param options HTTP options.\n * @return An `Observable` of the response, with the
response body as a `Blob`.\n */\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n header:
string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param:
string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,
responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<Blob>;\n\n /**\n * Constructs a `PATCH`
request that interprets the body as a text string and\n * returns the response as a string value.\n * @param url
The endpoint URL.\n * @param body The resources to edit.\n * @param options HTTP options.\n * @return
An `Observable` of the response, with a response body of type string.\n
*/\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n header: string]: string | string[]},\n
context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number |
boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n
withCredentials?: boolean,\n }): Observable<string>;\n\n /**\n * Constructs a `PATCH` request that interprets the
body as an `ArrayBuffer` and\n * returns the full event stream.\n * @param url The endpoint URL.\n *
@param body The resources to edit.\n * @param options HTTP options.\n * @return An `Observable` of all
the `HttpEvent`s for the request,\n * with the response body as an `ArrayBuffer`.\n */\n patch(url: string, body:
any|null, options: {\n headers?: HttpHeaders|{\n header: string]: string | string[]},\n observe: 'events',\n context?:
HttpContext,\n params?: HttpParams|\n {[param: string]:
string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType:
'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpEvent<ArrayBuffer>>;\n\n /**\n * Constructs

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a `PATCH` request that interprets the body as a `Blob` and returns the full event stream.
  * @param url The endpoint URL.
  * @param body The resources to edit.
  * @param options HTTP options.
  * @return An `Observable` of all the `HttpEvent`s for the request, with the response body as `Blob`.
  patch(url: string, body: any|null, options: {
    headers?: HttpHeaders|[header: string]: string | string[]], observe:
    'events', context?: HttpContext, params?: HttpParams|
      {[param: string]: string | number | boolean |
        ReadonlyArray<string|number|boolean>}},
    reportProgress?: boolean, responseType: 'blob', withCredentials?:
    boolean, ): Observable<HttpEvent<Blob>>;
  /**
   * Constructs
   a `PATCH` request that interprets the body as a text string and
   * returns the full event stream.
   * @param url The endpoint URL.
   * @param body The resources to edit.
   * @param options HTTP options.
   * @return An `Observable` of all the `HttpEvent`s for the request, with a
   * response body of type string.
   * patch(url: string, body: any|null, options: {
     headers?: HttpHeaders|[header: string]: string | string[]], observe:
     'events', context?: HttpContext, params?: HttpParams|
       {[param: string]: string | number | boolean |
         ReadonlyArray<string|number|boolean>}},
     reportProgress?: boolean, responseType: 'text', withCredentials?:
     boolean, ): Observable<HttpEvent<string>>;
   /**
    * Constructs a `PATCH` request that interprets the
    body as a JSON object
    * and returns the full event stream.
    * @param url The endpoint URL.
    * @param body The resources to edit.
    * @param options HTTP options.
    * @return An `Observable` of all the `HttpEvent`s for the request,
    * with a response body of type
    `Object`.
    * patch(url: string, body: any|null, options: {
      headers?: HttpHeaders|[header: string]: string |
      string[]], observe: 'events', context?: HttpContext,
      params?: HttpParams|
        {[param: string]: string |
        number | boolean |
        ReadonlyArray<string|number|boolean>}},
      reportProgress?: boolean,
      responseType?:
      'json', withCredentials?: boolean, ): Observable<HttpEvent<Object>>;
    /**
     * Constructs a `PATCH`
     request that interprets the body as a JSON object
     * and returns the full event stream.
     * @param url The endpoint URL.
     * @param body The resources to edit.
     * @param options HTTP options.
     * @return An `Observable` of all the `HttpEvent`s for the request,
     * with a response body in the requested type.
     * patch<T>(url: string, body: any|null, options: {
       headers?: HttpHeaders|[header:
       string]: string | string[]], observe: 'events',
       context?: HttpContext,
       params?: HttpParams|
         {[param:
         string]: string | number | boolean |
         ReadonlyArray<string|number|boolean>}},
       reportProgress?: boolean,
       responseType?: 'json',
       withCredentials?: boolean, ): Observable<HttpEvent<T>>;
     /**
      * Constructs a
      `PATCH` request that interprets the body as an `ArrayBuffer`
      * and returns the full `HttpResponse`.
      * @param url The endpoint URL.
      * @param body The resources to edit.
      * @param options HTTP options.
      * @return An `Observable` of the `HttpResponse` for the request,
      * with the response body as an
      `ArrayBuffer`.
      * patch(url: string, body: any|null, options: {
        headers?: HttpHeaders|[header: string]:
        string | string[]], observe: 'response',
        context?: HttpContext,
        params?: HttpParams|
          {[param: string]:
          string | number | boolean |
          ReadonlyArray<string|number|boolean>}},
        reportProgress?: boolean,
        responseType: 'arraybuffer',
        withCredentials?: boolean, ):
        Observable<HttpResponse<ArrayBuffer>>;
      /**
       * Constructs a `PATCH` request that interprets the body as
       a `Blob` and returns the full
       * `HttpResponse`.
       * @param url The endpoint URL.
       * @param body The resources to edit.
       * @param options HTTP options.
       * @return An `Observable` of the
       `HttpResponse` for the request,
       * with the response body as a `Blob`.
       * patch(url: string, body: any|null,
       options: {
         headers?: HttpHeaders|[header: string]: string | string[]],
         observe: 'response',
         context?:
         HttpContext,
         params?: HttpParams|
           {[param: string]: string | number | boolean |
             ReadonlyArray<string|number|boolean>}},
         reportProgress?: boolean,
         responseType: 'blob',
         withCredentials?:
         boolean, ): Observable<HttpResponse<Blob>>;
       /**
        * Constructs a `PATCH` request that interprets the
        body as a text stream and
        returns the
        * full `HttpResponse`.
        * @param url The endpoint URL.
        * @param body The resources
        to edit.
        * @param options HTTP options.
        * @return An `Observable` of the `HttpResponse` for the
        request,
        * with a response body of type string.
        * patch(url: string, body: any|null, options: {
          headers?:
          HttpHeaders|[header: string]: string | string[]], observe: 'response',
          context?: HttpContext,
          params?:

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HttpParams\n      {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean, responseType: 'text',\n  withCredentials?: boolean,\n  }): Observable<HttpResponse<string>>;\n\n /**\n  * Constructs a `PATCH` request that interprets the body as a
JSON object\n  * and returns the full `HttpResponse`.\n  *\n  * @param url The endpoint URL.\n  * @param
body The resources to edit.\n  * @param options HTTP options.\n  *\n  * @return An `Observable` of the
`HttpResponse`
for the request,\n  * with a response body in the requested type.\n  */\n patch(url: string, body: any|null, options:
{\n  headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n  context?: HttpContext,\n
params?: HttpParams\n      {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n  reportProgress?: boolean,\n  responseType?: 'json',\n
withCredentials?: boolean,\n  }): Observable<HttpResponse<Object>>;\n\n /**\n  * Constructs a `PATCH` request
that interprets the body as a JSON object\n  * and returns the full `HttpResponse`.\n  *\n  * @param url The
endpoint URL.\n  * @param body The resources to edit.\n  * @param options HTTP options.\n  *\n  * @return
An `Observable` of the `HttpResponse` for the request,\n  * with a response body in the given type.\n  */\n
patch<T>(url: string, body: any|null, options: {\n  headers?: HttpHeaders|{[header: string]: string | string[]},
observe: 'response',\n
context?: HttpContext,\n  params?: HttpParams\n      {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n  reportProgress?: boolean,\n  responseType?: 'json',\n
withCredentials?: boolean,\n  }): Observable<HttpResponse<T>>;\n\n /**\n  * Constructs a `PATCH` request that
interprets the body as a JSON object and\n  * returns the response body as a JSON object.\n  *\n  * @param url
The endpoint URL.\n  * @param body The resources to edit.\n  * @param options HTTP options.\n  *\n  *
@return An `Observable` of the response, with the response body as a JSON object.\n  */\n patch(url: string, body:
any|null, options?: {\n  headers?: HttpHeaders|{[header: string]: string | string[]},\n  context?: HttpContext,\n
observe?: 'body',\n  params?: HttpParams\n      {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n  reportProgress?: boolean,\n  responseType?: 'json',\n
withCredentials?:
boolean,\n  }): Observable<Object>;\n\n /**\n  * Constructs a `PATCH` request that interprets the body as a JSON
object\n  * and returns the response in a given type.\n  *\n  * @param url The endpoint URL.\n  * @param body
The resources to edit.\n  * @param options HTTP options.\n  *\n  * @return An `Observable` of the
`HttpResponse` for the request,\n  * with a response body in the given type.\n  */\n patch<T>(url: string, body:
any|null, options?: {\n  headers?: HttpHeaders|{[header: string]: string | string[]},\n  context?: HttpContext,\n
observe?: 'body',\n  params?: HttpParams\n      {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n  reportProgress?: boolean,\n  responseType?: 'json',\n
withCredentials?: boolean,\n  }): Observable<T>;\n\n /**\n  * Constructs an observable that, when subscribed,
causes the configured\n  * `PATCH` request to execute on the server. See the individual overloads for\n
* details on the return type.\n  */\n patch(url: string, body: any|null, options: {\n  headers?:
HttpHeaders|{[header: string]: string | string[]},\n  context?: HttpContext,\n  observe?: 'body'|'events'|'response',\n
params?: HttpParams\n      {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n  reportProgress?: boolean,\n  responseType?:
'arraybuffer'|'blob'|'json'|'text',\n  withCredentials?: boolean,\n  } = {}): Observable<any> {\n  return
this.request<any>('PATCH', url, addBody(options, body));\n  }\n\n /**\n  * Constructs a `POST` request that
interprets the body as an `ArrayBuffer` and returns\n  * an `ArrayBuffer`.\n  *\n  * @param url The endpoint
URL.\n  * @param body The content to replace with.\n  * @param options HTTP options.\n  *\n  * @return An
`Observable` of the response, with the response body as an `ArrayBuffer`.\n  */\n post(url: string, body: any|null,
options: {\n  headers?: HttpHeaders|{[header:
string]: string | string[]},\n  context?: HttpContext,\n  observe?: 'body',\n  params?: HttpParams\n
      {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n  reportProgress?: boolean,\n
responseType: 'arraybuffer',\n  withCredentials?: boolean,\n  }): Observable<ArrayBuffer>;\n\n /**\n  *

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Constructs a `POST` request that interprets the body as a `Blob` and returns the response as a `Blob`.

@param url The endpoint URL.

@param body The content to replace with.

@param options HTTP options.

@return An `Observable` of the response, with the response body as a `Blob`.

`post(url: string, body: any|null, options: { headers?: HttpHeaders|[header: string]: string | string[]}, context?: HttpContext, observe?: 'body', params?: HttpParams|{[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}, reportProgress?: boolean, responseType: 'blob', withCredentials?: boolean}): Observable<Blob>;`

Constructs a `POST` request that interprets the body as a text string and returns the response as a string value.

@param url The endpoint URL.

@param body The content to replace with.

@param options HTTP options.

@return An `Observable` of the response, with a response body of type string.

`post(url: string, body: any|null, options: { headers?: HttpHeaders|[header: string]: string | string[]}, context?: HttpContext, observe?: 'body', params?: HttpParams|{[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}, reportProgress?: boolean, responseType: 'text', withCredentials?: boolean}): Observable<string>;`

Constructs a `POST` request that interprets the body as an `ArrayBuffer` and returns the full event stream.

@param url The endpoint URL.

@param body The content to replace with.

@param options HTTP options.

@return An `Observable` of all `HttpEvent`s for the request, with the response body as an `ArrayBuffer`.

`post(url: string, body: any|null, options: { headers?: HttpHeaders|[header: string]: string | string[]}, observe: 'events', context?: HttpContext, params?: HttpParams|{[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}, reportProgress?: boolean, responseType: 'arraybuffer', withCredentials?: boolean}): Observable<HttpEvent<ArrayBuffer>>;`

Constructs a `POST` request that interprets the body as a `Blob` and returns the response in an observable of the full event stream.

@param url The endpoint URL.

@param body The content to replace with.

@param options HTTP options.

@return An `Observable` of all `HttpEvent`s for the request, with the response body as `Blob`.

`post(url: string, body: any|null, options: { headers?: HttpHeaders|[header: string]: string | string[]}, observe: 'events', context?: HttpContext, params?: HttpParams|{[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}, reportProgress?: boolean, responseType: 'blob', withCredentials?: boolean}): Observable<HttpEvent<Blob>>;`

Constructs a `POST` request that interprets the body as a text string and returns the full event stream.

@param url The endpoint URL.

@param body The content to replace with.

@param options HTTP options.

@return An `Observable` of all `HttpEvent`s for the request, with a response body of type string.

`post(url: string, body: any|null, options: { headers?: HttpHeaders|[header: string]: string | string[]}, observe: 'events', context?: HttpContext, params?: HttpParams|{[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}, reportProgress?: boolean, responseType: 'text', withCredentials?: boolean}): Observable<HttpEvent<string>>;`

Constructs a POST request that interprets the body as a JSON object and returns the full event stream.

@param url The endpoint URL.

@param body The content to replace with.

@param options HTTP options.

@return An `Observable` of all `HttpEvent`s for the request, with a response body of type `Object`.

`post(url: string, body: any|null, options: { headers?: HttpHeaders|[header: string]: string | string[]}, observe: 'events', context?: HttpContext, params?: HttpParams|{[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}, reportProgress?: boolean, responseType: 'json', withCredentials?: boolean}): Observable<HttpEvent<Object>>;`

Constructs a POST request that interprets the body as a JSON object and returns the full event stream.

@param url The endpoint URL.

@param body The content to replace with.

@param options HTTP options.

@return An `Observable` of all `HttpEvent`s for the request, with a response body in the requested type.

`post<T>(url: string, body: any|null, options: { headers?: HttpHeaders|[header: string]: string | string[]}, observe: 'events', context?: HttpContext, params?: HttpParams|{[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}, reportProgress?: boolean, responseType: 'json',`

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withCredentials?: boolean,\n }): Observable<HttpEvent<T>>;\n\n /**\n  * Constructs a POST request that
  interprets the body as an `ArrayBuffer`\n  * and returns the full `HttpResponse`.\n  *\n  * @param url The endpoint URL.\n  * @param body The content to replace with.\n  * @param options
  HTTP options\n  *\n  * @return An `Observable` of the `HttpResponse` for the request, with the response body as
  an\n  * `ArrayBuffer`.\n  */\n post(url: string, body: any|null, options: {\n  headers?: HttpHeaders|{[header:
  string]: string | string[]}, observe: 'response',\n  context?: HttpContext,\n  params?: HttpParams|\n  {[param:
  string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n  reportProgress?: boolean,
  responseType: 'arraybuffer',\n  withCredentials?: boolean,\n }): Observable<HttpResponse<ArrayBuffer>>;\n\n
  /**\n  * Constructs a `POST` request that interprets the body as a `Blob` and returns the full\n  * `HttpResponse`.\n
  *\n  * @param url The endpoint URL.\n  * @param body The content to replace with.\n  * @param options
  HTTP options\n  *\n  * @return An `Observable` of the `HttpResponse` for the request,\n  * with the response
  body as a `Blob`.\n  */\n post(url: string, body: any|null, options: {\n  headers?:
  HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n  context?: HttpContext,\n  params?:
  HttpParams|\n  {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
  reportProgress?: boolean, responseType: 'blob',\n  withCredentials?: boolean,\n }):
  Observable<HttpResponse<Blob>>;\n\n /**\n  * Constructs a `POST` request that interprets the body as a text
  stream and returns\n  * the full `HttpResponse`.\n  *\n  * @param url The endpoint URL.\n  * @param body The
  content to replace with.\n  * @param options HTTP options\n  *\n  * @return An `Observable` of the
  `HttpResponse` for the request,\n  * with a response body of type string.\n  */\n post(url: string, body: any|null,
  options: {\n  headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n  context?:
  HttpContext,\n  params?: HttpParams|\n  {[param: string]: string | number | boolean |
  ReadonlyArray<string|number|boolean>},\n
  reportProgress?: boolean, responseType: 'text',\n  withCredentials?: boolean,\n }):
  Observable<HttpResponse<string>>;\n\n /**\n  * Constructs a `POST` request that interprets the body as a JSON
  object\n  * and returns the full `HttpResponse`.\n  *\n  * @param url The endpoint URL.\n  * @param body The
  content to replace with.\n  * @param options HTTP options\n  *\n  * @return An `Observable` of the
  `HttpResponse` for the request, with a response body of type\n  * `Object`.\n  */\n post(url: string, body: any|null,
  options: {\n  headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n  context?:
  HttpContext,\n  params?: HttpParams|\n  {[param: string]: string | number | boolean |
  ReadonlyArray<string|number|boolean>},\n
  reportProgress?: boolean,\n  responseType?: 'json',\n
  withCredentials?: boolean,\n }): Observable<HttpResponse<Object>>;\n\n /**\n  * Constructs a `POST` request
  that interprets the body
  as a JSON object and returns the full\n  * `HttpResponse`.\n  *\n  * @param url The endpoint URL.\n  *
  * @param body The content to replace with.\n  * @param options HTTP options\n  *\n  * @return An `Observable`
  of the `HttpResponse` for the request, with a response body in the\n  * requested type.\n  */\n post<T>(url: string,
  body: any|null, options: {\n  headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n
  context?: HttpContext,\n  params?: HttpParams|\n  {[param: string]: string | number | boolean |
  ReadonlyArray<string|number|boolean>},\n
  reportProgress?: boolean,\n  responseType?: 'json',\n
  withCredentials?: boolean,\n }): Observable<HttpResponse<T>>;\n\n /**\n  * Constructs a `POST` request that
  interprets the body as a\n  * JSON object and returns the response body as a JSON object.\n  *\n  * @param url
  The endpoint URL.\n  * @param body The content to replace with.\n  * @param options HTTP options\n
  *\n  * @return An `Observable` of the response, with the response body as a JSON object.\n  */\n post(url: string,
  body: any|null, options?: {\n  headers?: HttpHeaders|{[header: string]: string | string[]},\n  context?:
  HttpContext,\n  observe?: 'body',\n  params?: HttpParams|\n  {[param: string]: string | number | boolean |
  ReadonlyArray<string|number|boolean>},\n
  reportProgress?: boolean,\n  responseType?: 'json',\n
  withCredentials?: boolean,\n }): Observable<Object>;\n\n /**\n  * Constructs a `POST` request that interprets the
  body as a JSON object\n  * and returns an observable of the response.\n  *\n  * @param url The endpoint URL.\n
  * @param body The content to replace with.\n  * @param options HTTP options\n  *\n  * @return An

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`Observable` of the `HttpResponse` for the request, with a response body in the\n * requested type.\n */\n
post<T>(url: string, body: any|null, options?: {\n headers?: HttpHeaders|{\n header: string: string |
string[]\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n      {[param: string]: string
| number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?:
'json',\n withCredentials?: boolean,\n }): Observable<T>;\n\n /**\n * Constructs an observable that, when
subscribed, causes the configured\n * `POST` request to execute on the server. The server responds with the
location of\n * the replaced resource. See the individual overloads for\n * details on the return type.\n */\n
post(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n
context?: HttpContext,\n observe?: 'body'|'events'|'response',\n params?: HttpParams|\n      {[param: string]:
string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n
responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n
} = {}): Observable<any> {\n return this.request<any>('POST', url, addBody(options, body));\n }\n\n /**\n *
Constructs a `PUT` request that interprets the body as an `ArrayBuffer` and returns the\n * response as an
`ArrayBuffer`.\n */\n * @param url The endpoint URL.\n * @param body The resources to add/update.\n *
@param options HTTP options\n */\n * @return An `Observable` of the response, with the response body as an
`ArrayBuffer`.\n */\n put(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n header: string: string |
string[]\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n      {[param: string]: string |
number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType:
'arraybuffer',\n withCredentials?: boolean,\n }): Observable<ArrayBuffer>;\n\n /**\n * Constructs a `PUT`
request that interprets the body as a `Blob` and returns\n * the response as a `Blob`.\n
*/\n * @param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options
HTTP options\n */\n * @return An `Observable` of the response, with the response body as a `Blob`.\n */\n
put(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n
context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n      {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?:
boolean,\n }): Observable<Blob>;\n\n /**\n * Constructs a `PUT` request that interprets the body as a text string
and\n * returns the response as a string value.\n */\n * @param url The endpoint URL.\n * @param body The
resources to add/update.\n * @param options HTTP options\n */\n * @return An `Observable` of the response,
with a response body of type string.\n */\n put(url: string, body: any|null,
options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n context?: HttpContext,\n observe?:
'body',\n params?: HttpParams|\n      {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?:
boolean,\n }): Observable<string>;\n\n /**\n * Constructs a `PUT` request that interprets the body as an
`ArrayBuffer` and\n * returns the full event stream.\n */\n * @param url The endpoint URL.\n * @param body
The resources to add/update.\n * @param options HTTP options\n */\n * @return An `Observable` of all
`HttpEvent`s for the request,\n * with the response body as an `ArrayBuffer`.\n */\n put(url: string, body:
any|null, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n observe: 'events',\n
context?: HttpContext,\n params?: HttpParams|\n      {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }):
Observable<HttpEvent<ArrayBuffer>>;\n\n /**\n * Constructs a `PUT` request that interprets the body as a
`Blob` and returns the full event\n * stream.\n */\n * @param url The endpoint URL.\n * @param body The
resources to add/update.\n * @param options HTTP options\n */\n * @return An `Observable` of all
`HttpEvent`s for the request,\n * with the response body as a `Blob`.\n */\n put(url: string, body: any|null,
options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n observe: 'events',\n
context?: HttpContext,\n params?: HttpParams|\n      {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?:
boolean,\n }): Observable<HttpEvent<Blob>>;\n\n /**\n * Constructs a `PUT` request that interprets the body as

```

a

text string and returns the full event\n * stream.\n * \n * @param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP options\n * \n * @return An `Observable` of all `HttpEvent`s for the request, with a response body\n * of type string.\n * \n * put(url: string, body: any|null, options: {\n * headers?: HttpHeaders|[header: string]: string | string[]], observe: 'events',\n * context?: HttpContext,\n * params?: HttpParams|\n * {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n * reportProgress?: boolean, responseType: 'text',\n * withCredentials?: boolean,\n * }): Observable<HttpEvent<string>>;\n * \n * /**\n * Constructs a `PUT` request that interprets the body as a JSON object and returns the full event\n * stream.\n * \n * @param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP options\n * \n * @return An `Observable` of all `HttpEvent`s for the request, with a response body of\n * type `Object`.\n * \n * put(url: string, body: any|null, options: {\n * headers?: HttpHeaders|[header: string]: string | string[]], observe: 'events',\n * context?: HttpContext,\n * params?: HttpParams|\n * {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n * reportProgress?: boolean,\n * responseType?: 'json',\n * withCredentials?: boolean,\n * }): Observable<HttpEvent<Object>>;\n * \n * /**\n * Constructs a `PUT` request that interprets the body as a JSON object and returns the\n * full event stream.\n * \n * @param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP options\n * \n * @return An `Observable` of all `HttpEvent`s for the request,\n * with a response body in the requested type.\n * \n * put<T>(url: string, body: any|null, options: {\n * headers?: HttpHeaders|[header: string]: string | string[]], observe: 'events',\n * context?: HttpContext,\n * params?: HttpParams|\n * {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n * reportProgress?: boolean,\n * responseType?: 'json',\n * withCredentials?: boolean,\n * }): Observable<HttpEvent<T>>;\n * \n * /**\n * Constructs a `PUT` request that interprets the body as an\n * `ArrayBuffer` and returns an observable of the full HTTP response.\n * \n * @param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP options\n * \n * @return An `Observable` of the `HttpResponse` for the request, with the response body as an\n * `ArrayBuffer`.\n * \n * put(url: string, body: any|null, options: {\n * headers?: HttpHeaders|[header: string]: string | string[]], observe: 'response',\n * context?: HttpContext,\n * params?: HttpParams|\n * {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n * reportProgress?: boolean, responseType: 'arraybuffer',\n * withCredentials?: boolean,\n * }): Observable<HttpResponse<ArrayBuffer>>;\n * \n * /**\n * Constructs a `PUT` request that interprets the body as a `Blob` and returns the\n * full HTTP response.\n * \n * @param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP options\n * \n * @return An `Observable` of the `HttpResponse` for the request,\n * with the response body as a `Blob`.\n * \n * put(url: string, body: any|null, options: {\n * headers?: HttpHeaders|[header: string]: string | string[]], observe: 'response',\n * context?: HttpContext,\n * params?: HttpParams|\n * {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n * reportProgress?: boolean, responseType: 'blob',\n * withCredentials?: boolean,\n * }): Observable<HttpResponse<Blob>>;\n * \n * /**\n * Constructs a `PUT` request that interprets the body as a text stream and returns the\n * full HTTP response.\n * \n * @param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP options\n * \n * @return An `Observable` of the `HttpResponse` for the request, with a response body of type\n * string.\n * \n * put(url: string, body: any|null, options: {\n * headers?: HttpHeaders|[header: string]: string | string[]], observe: 'response',\n * context?: HttpContext,\n * params?: HttpParams|\n * {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n * reportProgress?: boolean, responseType: 'text',\n * withCredentials?: boolean,\n * }): Observable<HttpResponse<string>>;\n * \n * /**\n * Constructs a `PUT` request that interprets the body as a JSON object and returns the full HTTP\n * response.\n * \n * @param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP options\n * \n * @return An `Observable` of the `HttpResponse` for the request, with a response body\n

* of type 'Object'.
 *
 put(url: string, body: any|null, options: {
 headers?: HttpHeaders|[header: string]:
 string | string[]], observe: 'response',
 context?: HttpContext,
 params?: HttpParams|
 {[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>}],
 reportProgress?: boolean,
 responseType?: 'json',
 withCredentials?: boolean,
 }): Observable<HttpResponse<Object>>;
 /**
 * Constructs a `PUT` request that interprets the body as an instance of the requested type and
 * returns the full HTTP response.
 *
 * @param url The endpoint URL.
 * @param body The resources to add/update.
 * @param options HTTP options.
 * @return An `Observable` of the `HttpResponse` for the request, with
 a response body in the requested type.
 */
 put<T>(url: string, body: any|null, options: {
 headers?: HttpHeaders|[header: string]: string | string[]], observe: 'response',
 context?: HttpContext,
 params?: HttpParams|
 {[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>}],
 reportProgress?: boolean,
 responseType?: 'json',
 withCredentials?: boolean,
 }): Observable<HttpResponse<T>>;
 /**
 * Constructs a `PUT` request that interprets the body as a JSON object
 * and returns an observable of JSON object.
 *
 * @param url The endpoint URL.
 * @param body The resources to add/update.
 * @param options HTTP options.
 * @return An `Observable` of the response as a JSON object.
 */
 put(url: string, body: any|null, options?: {
 headers?: HttpHeaders|[header: string]: string | string[]],
 context?: HttpContext,
 observe?: 'body',
 params?: HttpParams|
 {[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>}],
 reportProgress?: boolean,
 responseType?: 'json',
 withCredentials?: boolean,
 }): Observable<Object>;
 /**
 * Constructs a `PUT` request that interprets the body as an instance of the requested type
 * and returns an observable of the requested type.
 *
 * @param url The endpoint URL.
 * @param body The resources to add/update.
 * @param options HTTP options.
 * @return An `Observable` of the requested type.
 */
 put<T>(url: string, body: any|null, options?: {
 headers?: HttpHeaders|[header: string]: string | string[]],
 context?: HttpContext,
 observe?: 'body',
 params?: HttpParams|
 {[param: string]: string | number |
 boolean | ReadonlyArray<string|number|boolean>}],
 reportProgress?: boolean,
 responseType?: 'json',
 withCredentials?: boolean,
 }): Observable<T>;
 /**
 * Constructs an observable that, when subscribed,
 causes the configured `PUT` request to execute on the server. The `PUT` method replaces an existing
 resource with a new set of values. See the individual overloads for details
 on the return type.
 */
 put(url: string, body: any|null, options: {
 headers?: HttpHeaders|[header: string]:
 string | string[]],
 context?: HttpContext,
 observe?: 'body'|'events'|'response',
 params?: HttpParams|
 {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}],
 reportProgress?:
 boolean,
 responseType?: 'arraybuffer'|'blob'|'json'|'text',
 withCredentials?: boolean,
 } = {}):
 Observable<any> {
 return this.request<any>('PUT', url, addBody(options, body));
 }
 }
 /**
 *
 * @license
 * Copyright Google LLC All Rights Reserved.
 * Use of this source code is governed by an MIT-
 style license that can be found in the LICENSE file at <https://angular.io/license>
 */
 @import {Injectable,
 InjectionToken} from '@angular/core';
 @import {Observable} from 'rxjs';
 @import {HttpHandler} from
 './backend';
 @import {HttpRequest} from './request';
 @import {HttpEvent} from './response';
 /**
 * Intercepts
 and handles an `HttpRequest` or `HttpResponse`.
 *
 * Most interceptors transform the outgoing request before
 passing it to the next interceptor in the chain, by calling `next.handle(transformedReq)`.
 * An interceptor may
 transform the response event stream as well, by applying additional RxJS operators on the stream
 returned by `next.handle()`.
 *
 * More rarely, an interceptor may handle the request entirely, and compose a new event
 stream instead of invoking `next.handle()`. This is an acceptable behavior, but keep in mind that further
 interceptors will be skipped entirely.
 *
 * It is also rare but valid for an interceptor to return multiple responses on the
 event stream for a single request.
 *
 * @publicApi
 * @see [HTTP Guide](guide/http#intercepting-requests-and-responses)
 * @usageNotes
 * To use the same instance of `HttpInterceptors` for the entire
 app, import the `HttpClientModule` only in your `AppModule`, and add
 the interceptors to the root application injector.
 * If you import `HttpClientModule` multiple times across
 different modules (for example, in lazy loading modules), each import creates a new copy of the


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`HttpClientModule`, which overwrites the\n * interceptors provided in the root module.\n * \n * \nexport interface
HttpInterceptor {\n /**\n * Identifies and handles a given HTTP request.\n * @param req The outgoing request
object to handle.\n * @param next The next interceptor in the chain, or the backend\n * if no interceptors remain
in the chain.\n * @returns An observable of the event stream.\n * \n * \n intercept(req: HttpRequest<any>, next:
HttpHandler): Observable<HttpEvent<any>>;\n }\n\n/**\n * `HttpHandler` which applies an `HttpInterceptor` to an
`HttpRequest`.\n * \n * \n * \nexport class HttpInterceptorHandler implements HttpHandler {\n constructor(private
next: HttpHandler, private interceptor: HttpInterceptor) {\n\n handle(req: HttpRequest<any>):
Observable<HttpEvent<any>>
{\n return this.interceptor.intercept(req, this.next);\n }\n}\n\n/**\n * A multi-provider token that represents the
array of registered\n * `HttpInterceptor` objects.\n * \n * @publicApi\n * \nexport const HTTP_INTERCEPTORS =
new InjectionToken<HttpInterceptor[]>('HTTP_INTERCEPTORS');\n\n@Injectable()\nexport class
NoopInterceptor implements HttpInterceptor {\n intercept(req: HttpRequest<any>, next: HttpHandler):
Observable<HttpEvent<any>> {\n return next.handle(req);\n }\n}\n\n", /**\n * @license\n * Copyright Google
LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n * \n\nimport {DOCUMENT} from '@angular/common';\nimport
{Inject, Injectable} from '@angular/core';\nimport {Observable, Observer} from 'rxjs';\nimport {HttpBackend,
HttpHandler} from './backend';\nimport {HttpRequest} from './request';\nimport {HttpErrorResponse, HttpEvent,
HttpEventType,
HttpResponse, HttpStatusCode} from './response';\n\n\n// Every request made through JSONP needs a callback
name that's unique across the\n// whole page. Each request is assigned an id and the callback name is constructed\n//
from that. The next id to be assigned is tracked in a global variable here that\n// is shared among all applications on
the page.\nlet nextRequestId: number = 0;\n\n/**\n * When a pending <script> is unsubscribed we'll move it to this
document, so it won't be\n * executed.\n * \nlet foreignDocument: Document|undefined;\n\n// Error text given when
a JSONP script is injected, but doesn't invoke the callback\n// passed in its URL.\nexport const
JSONP_ERR_NO_CALLBACK = 'JSONP injected script did not invoke callback.';\n\n// Error text given when a
request is passed to the JsonpClientBackend that doesn't\n// have a request method JSONP.\nexport const
JSONP_ERR_WRONG_METHOD = 'JSONP requests must use JSONP request method.';\nexport const
JSONP_ERR_WRONG_RESPONSE_TYPE
= 'JSONP requests must use Json response type.';\n\n/**\n * DI token/abstract type representing a map of JSONP
callbacks.\n * \n * In the browser, this should always be the `window` object.\n * \n * \nexport abstract class
JsonpCallbackContext {\n [key: string]: (data: any) => void;\n }\n\n/**\n * Processes an `HttpRequest` with the
JSONP method,\n * by performing JSONP style requests.\n * @see `HttpHandler`\n * @see `HttpXHRBackend`\n
*\n * @publicApi\n * \n@Injectable()\nexport class JsonpClientBackend implements HttpBackend {\n /**\n * A
resolved promise that can be used to schedule microtasks in the event handlers.\n * \n private readonly
resolvedPromise = Promise.resolve();\n\n constructor(private callbackMap: JsonpCallbackContext,
@Inject(DOCUMENT) private document: any) {\n\n /**\n * Get the name of the next callback method, by
incrementing the global `nextRequestId`.\n * \n private nextCallback(): string {\n return
`ng_jsonp_callback_${nextRequestId++}`;\n }\n\n /**\n * Processes a JSONP request and returns an event stream of the results.\n
* @param req The request
object.\n * @returns An observable of the response events.\n * \n * \n handle(req: HttpRequest<never>):
Observable<HttpEvent<any>> {\n // Firstly, check both the method and response type. If either doesn't match\n
// then the request was improperly routed here and cannot be handled.\n if (req.method !== 'JSONP') {\n throw
new Error(JSONP_ERR_WRONG_METHOD);\n } else if (req.responseType !== 'json') {\n throw new
Error(JSONP_ERR_WRONG_RESPONSE_TYPE);\n }\n\n // Everything else happens inside the Observable
boundary.\n return new Observable<HttpEvent<any>>((observer: Observer<HttpEvent<any>>) => {\n // The
first step to make a request is to generate the callback name, and replace the\n // callback placeholder in the URL
with the name. Care has to be taken here to ensure\n // a trailing &, if matched, gets inserted back into

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the URL in the correct place.\n    const callback = this.nextCallback();\n    const url =
req.urlWithParams.replace(/{JSONP_CALLBACK(&|$)/, `=${callback}$1`);\n    // Construct the <script> tag
and point it at the URL.\n    const node = this.document.createElement('script');\n    node.src = url;\n\n    // A
JSONP request requires waiting for multiple callbacks. These variables\n    // are closed over and track state across
those callbacks.\n    // The response object, if one has been received, or null otherwise.\n    let body: any|null =
null;\n    // Whether the response callback has been called.\n    let finished: boolean = false;\n    // Set the
response callback in this.callbackMap (which will be the window\n    // object in the browser. The script being
loaded via the <script> tag will\n    // eventually call this callback.\n    this.callbackMap[callback] = (data?: any)
=> {\n    // Data has been received from the JSONP script. Firstly,
delete this callback.\n    delete this.callbackMap[callback];\n\n    // Set state to indicate data was received.\n    body = data;\n    finished = true;\n    };\n\n    // cleanup() is a utility closure that removes the <script> from the
page and\n    // the response callback from the window. This logic is used in both the\n    // success, error, and
cancellation paths, so it's extracted out for convenience.\n    const cleanup = () => {\n    // Remove the <script>
tag if it's still on the page.\n    if (node.parentNode) {\n    node.parentNode.removeChild(node);\n    }\n\n    // Remove the response callback from the callbackMap (window object in the\n    // browser).\n    delete
this.callbackMap[callback];\n    };\n\n    // onLoad() is the success callback which runs after the response
callback\n    // if the JSONP script loads successfully. The event itself is unimportant.\n    // If something went
wrong, onLoad() may run
without the response callback\n    // having been invoked.\n    const onLoad = (event: Event) => {\n    // We
wrap it in an extra Promise, to ensure the microtask\n    // is scheduled after the loaded endpoint has executed any
potential microtask itself,\n    // which is not guaranteed in Internet Explorer and EdgeHTML. See issue #39496\n    this.resolvedPromise.then(() => {\n    // Cleanup the page.\n    cleanup();\n\n    // Check whether the
response callback has run.\n    if (!finished) {\n    // It hasn't, something went wrong with the request.
Return an error via\n    // the Observable error path. All JSONP errors have status 0.\n    observer.error(new HttpResponse({\n    url,\n    status: 0,\n    statusText: 'JSONP Error',\n    error: new Error(JSONP_ERR_NO_CALLBACK),\n    }));\n    return;\n    });\n\n    // Success.
body either contains the
response body or null if none was\n    // returned.\n    observer.next(new HttpResponse({\n    body,\n    status: HttpStatusCode.Ok,\n    statusText: 'OK',\n    url,\n    }));\n\n    // Complete the stream,
the response is over.\n    observer.complete();\n    });\n    };\n\n    // onError() is the error callback, which
runs if the script returned generates\n    // a Javascript error. It emits the error via the Observable error channel as\n    // a HttpResponse.\n    const onError: any = (error: Error) => {\n    cleanup();\n\n    // Wrap the error in
a HttpResponse.\n    observer.error(new HttpResponse({\n    error,\n    status: 0,\n    statusText: 'JSONP Error',\n    url,\n    }));\n    };\n\n    // Subscribe to both the success (load) and error
events on the <script> tag,\n    // and add it to the page.\n    node.addEventListener('load', onLoad);\n    node.addEventListener('error', onError);\n    this.document.body.appendChild(node);\n\n    // The request has
now been successfully sent.\n    observer.next({type: HttpEventType.Sent});\n\n    // Cancellation handler.\n    return () => {\n    if (!finished) {\n    this.removeListeners(node);\n    }\n\n    // And finally, clean up the
page.\n    cleanup();\n    };\n    });\n    }\n\n    private removeListeners(script: HTMLScriptElement): void {\n    //
Issue #34818\n    // Changing <script>'s ownerDocument will prevent it from execution.\n    //
https://html.spec.whatwg.org/multipage/scripting.html#execute-the-script-block\n    if (!foreignDocument) {\n    foreignDocument = (this.document.implementation as DOMImplementation).createHTMLDocument();\n    }\n    foreignDocument.adoptNode(script);\n    }\n\n    /**\n    * Identifies requests with the method JSONP and\n    * shifts
them to the `JsonpClientBackend`.\n    * @see `HttpInterceptor`\n    * @publicApi\n    */\n    @Injectable()\n    export class JsonpInterceptor {\n    constructor(private jsonp: JsonpClientBackend) {}\n\n    /**\n    * Identifies and handles a given JSONP request.\n    * @param req The outgoing request object to handle.\n    *
@param next The next interceptor in the chain, or the backend\n    * if no interceptors remain in the chain.\n    *
@return An observable of the event stream.\n    */\n    intercept(req: HttpRequest<any>, next: HttpHandler):

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Observable<HttpRequest>> {
    if (req.method === 'JSONP') {
        return this.jsonp.handle(req as
HttpRequest<never>);
    } // Fall through for normal HTTP requests.
    return next.handle(req);
}

/**
 * Copyright Google LLC All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */
import {XhrFactory} from '@angular/common';
import {Injectable} from '@angular/core';
import {Observable, Observer} from 'rxjs';
import {HttpBackend} from './backend';
import {HttpHeaders} from './headers';
import {HttpRequest} from './request';
import {HttpDownloadProgressEvent, HttpResponseError, HttpEvent,
HttpEventType, HttpHeadersResponse, HttpStatusCode,
HttpUploadProgressEvent} from './response';

const XSS_PREFIX = /\}\]\|\}',?\n\n/g;

// Determine an appropriate URL for the response, by checking either XMLHttpRequest.responseURL or the X-Request-URL header.
function getResponseUrl(xhr: any): string|null {
    if ('responseURL' in xhr && xhr.responseURL) {
        return xhr.responseURL;
    } else if (/^X-Request-URL:/m.test(xhr.getAllResponseHeaders())) {
        return xhr.getResponseHeader('X-Request-URL');
    }
    return null;
}

// Uses `XMLHttpRequest` to send requests to a backend server.
@Injectable()
export class XmlHttpRequest implements HttpBackend {
    constructor(private xhrFactory: XhrFactory) {}

    /** Processes a request and returns a stream of response events.
     * @param req The request object.
     * @returns An observable of the response events.
     */
    handle(req: HttpRequest<any>): Observable<HttpEvent<any>> {
        // Quick check to give a better error message when a user attempts to use HttpClient.jsonp() without installing the HttpClientModule
        if (req.method === 'JSONP') {
            throw new Error(`Attempted to construct Jsonp request without HttpClientModule installed.`);
        }

        // Everything happens on Observable subscription.
        return new Observable((observer: Observer<HttpEvent<any>>) => {
            // Start by setting up the XHR object with request method, URL, and withCredentials flag.
            const xhr = this.xhrFactory.build();
            xhr.open(req.method, req.urlWithParams);

            if (!req.withCredentials) {
                xhr.withCredentials = true;
            }

            // Add all the requested headers.
            req.headers.forEach((name, values) => xhr.setRequestHeader(name, values.join(',')));

            // Add an Accept header if one isn't present already.
            if (!req.headers.has('Accept')) {
                xhr.setRequestHeader('Accept', 'application/json, text/plain, */*');
            }

            // Auto-detect the Content-Type header if one isn't present already.
            if (!req.headers.has('Content-Type')) {
                const detectedType = req.detectContentTypeHeader();

                // Sometimes Content-Type detection fails.
                if (detectedType !== null) {
                    xhr.setRequestHeader('Content-Type', detectedType);
                }
            }

            // Set the responseType if one was requested.
            if (req.responseType) {
                const responseType = req.responseType.toLowerCase();

                // JSON responses need to be processed as text. This is because if the server returns an XML-prefixed JSON response, the browser will fail to parse it, and xhr.responseText cannot be accessed to retrieve the prefixed JSON data in order to strip the prefix. Thus, all JSON is parsed by first requesting text and then applying JSON.parse.
                xhr.responseType = ((responseType !== 'json') ? responseType : 'text') as any;
            }

            // Serialize the request body if one is present. If not, this will be set to null.
            const requestBody = req.serializeBody();

            // If progress events are enabled, response headers will be delivered in two events - the HttpHeadersResponse event and the full HttpResponseMessage event. However, since response headers don't change in between these two events, it doesn't make sense to parse them twice. So headerResponse caches the data extracted from the response whenever it's first parsed, to ensure parsing isn't duplicated.
            let headerResponse: HttpHeadersResponse | null = null;

            // partialFromXhr extracts the HttpHeadersResponse from the current XMLHttpRequest state, and memoizes it into headerResponse.
            const partialFromXhr = (): HttpHeadersResponse => {
                if (headerResponse !== null) {
                    return headerResponse;
                }
                const statusText = xhr.statusText || 'OK';

                // Parse headers from XMLHttpRequest - this step is lazy.
                const headers = new HttpHeaders(xhr.getAllResponseHeaders());

                // Read the response URL from the XMLHttpRequest

```

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instance and fall back on the\n    // request URL.\n    const url = getUrl(xhr) || req.url;\n\n    // Construct the HttpHeaderResponse and memoize it.\n    headerResponse = new HttpHeaderResponse({headers,\nstatus: xhr.status, statusText, url});\n    return headerResponse;\n    };\n\n    // Next, a few closures are defined\nfor the various events which XMLHttpRequest can\n    // emit. This allows them to be unregistered as\n    event listeners later.\n\n    // First up is the load event, which represents a response being fully available.\nconst onLoad = () => {\n    // Read response state from the memoized partial data.\n    let {headers, status,\nstatusText, url} = partialFromXhr();\n\n    // The body will be read out if present.\n    let body: any|null =\nnull;\n\n    if (status !== HttpStatusCode.NoContent) {\n        // Use XMLHttpRequest.response if set,\nresponseText otherwise.\n        body = (typeof xhr.response === 'undefined') ? xhr.responseText : xhr.response;\n    }\n\n    // Normalize another potential bug (this one comes from CORS).\n    if (status === 0) {\n        status\n= !!body ? HttpStatusCode.Ok : 0;\n    }\n\n    // ok determines whether the response will be transmitted on the\n    event or\n    // error channel. Unsuccessful status codes (not 2xx) will always be errors,\n    // but a successful\n    status code can still result in an error\n\n    if the user\n    // asked for JSON data and the body cannot be parsed as such.\n    let ok = status >= 200 &&\nstatus < 300;\n\n    // Check whether the body needs to be parsed as JSON (in many cases the browser\n    // will have done that already).\n    if (req.responseType === 'json' && typeof body === 'string') {\n        // Save\nthe original body, before attempting XSS prefix stripping.\n        const originalBody = body;\n        body =\nbody.replace(XSSI_PREFIX, '');\n\n        try {\n            // Attempt the parse. If it fails, a parse error should be\ndelivered to the user.\n            body = body !== '' ? JSON.parse(body) : null;\n        } catch (error) {\n            //\nSince the JSON.parse failed, it's reasonable to assume this might not have been a\n            // JSON response. Restore\nthe original body (including any XSS prefix) to deliver\n            // a better error response.\n            body =\noriginalBody;\n\n            // If this\n            was an error request to begin with, leave it as a string, it probably\n            // just isn't JSON. Otherwise, deliver the\n            parsing error to the user.\n            if (ok) {\n                // Even though the response status was 2xx, this is still an\n                error.\n                ok = false;\n\n                // The parse error contains the text of the body that failed to parse.\nbody = {error, text: body} as HttpJsonParseError;\n            }\n\n            if (ok) {\n                // A\nsuccessful response is delivered on the event stream.\n                observer.next(new HttpResponse({\n                    body,\n                    headers,\n                    status,\n                    statusText,\n                    url: url || undefined,\n                }));\n\n                // The full body has\n                been received and delivered, no further events\n                // are possible. This request is complete.\n                observer.complete();\n            } else {\n                // An unsuccessful request is delivered on the error channel.\n                observer.error(new HttpErrorResponse({\n                    // The error in this case is the response body (error from the\nserver).\n                    error: body,\n                    headers,\n                    status,\n                    statusText,\n                    url: url || undefined,\n                }));\n\n                // The onError callback is called when something goes wrong at the network level.\n                // Connection timeout, DNS error, offline, etc. These are actual errors, and are\n                // transmitted on the error\n                channel.\n                const onError = (error: ProgressEvent) => {\n                    const {url} = partialFromXhr();\n                    const res =\nnew HttpErrorResponse({\n                        error,\n                        status: xhr.status || 0,\n                        statusText: xhr.statusText || 'Unknown\nError',\n                        url: url || undefined,\n                    });\n                    observer.error(res);\n                };\n\n                // The sentHeaders flag tracks\n                whether the HttpResponseHeaders event\n                // has been sent on the stream. This is necessary\nto track if progress\n                // is enabled since the event will be sent on only the first download\n                // progress event.\n                let sentHeaders = false;\n\n                // The download progress event handler, which is only registered if\n                // progress\n                events are enabled.\n                const onDownProgress = (event: ProgressEvent) => {\n                    // Send the\n                    HttpResponseHeaders event if it hasn't been sent already.\n                    if (!sentHeaders) {\n                        observer.next(partialFromXhr());\n                        sentHeaders = true;\n                    }\n\n                    // Start building the download progress\n                    event to deliver on the response\n                    // event stream.\n                    let progressEvent: HttpDownloadProgressEvent = {\n                        type: HttpEventType.DownloadProgress,\n                        loaded: event.loaded,\n                    };\n\n                    // Set the total number of\n                    bytes in the event if it's available.\n                    if (event.lengthComputable) {\n                        progressEvent.total = event.total;\n                    }\n\n                    // If the request was for text

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content and a partial response is\n    // available on XMLHttpRequest, include it in the progress event\n    // to
allow for streaming reads.\n    if (req.responseType === 'text' && !xhr.responseText) {\n
progressEvent.partialText = xhr.responseText;\n    }\n    // Finally, fire the event.\n
observer.next(progressEvent);\n    };\n    // The upload progress event handler, which is only registered if\n
progress events are enabled.\n    const onUpProgress = (event: ProgressEvent) => {\n    // Upload progress
events are simpler. Begin building the progress\n    // event.\n    let progress: HttpUploadProgressEvent = {\n
type: HttpEventType.UploadProgress,\n    loaded: event.loaded,\n    };\n    // If the total number of
bytes being uploaded is available, include\n    // it.\n    if (event.lengthComputable) {\n    progress.total =
event.total;\n    }\n    // Send the event.\n
    observer.next(progress);\n    };\n    // By default, register for load and error events.\n
xhr.addEventListener('load', onLoad);\n    xhr.addEventListener('error', onError);\n
xhr.addEventListener('timeout', onError);\n    xhr.addEventListener('abort', onError);\n    // Progress events are
only enabled if requested.\n    if (req.reportProgress) {\n    // Download progress is always enabled if
requested.\n    xhr.addEventListener('progress', onDownProgress);\n    // Upload progress depends on whether
there is a body to upload.\n    if (reqBody !== null && xhr.upload) {\n
xhr.upload.addEventListener('progress', onUpProgress);\n    }\n    }\n    // Fire the request, and notify the
event stream that it was fired.\n    xhr.send(reqBody!);\n    observer.next({type: HttpEventType.Sent});\n    //
This is the return from the Observable function, which is the\n    // request cancellation handler.\n    return () =>
{\n    // On a cancellation, remove all registered event listeners.\n    xhr.removeEventListener('error',
onError);\n    xhr.removeEventListener('abort', onError);\n    xhr.removeEventListener('load', onLoad);\n
xhr.removeEventListener('timeout', onError);\n    if (req.reportProgress) {\n
xhr.removeEventListener('progress', onDownProgress);\n    if (reqBody !== null && xhr.upload) {\n
xhr.upload.removeEventListener('progress', onUpProgress);\n    }\n    }\n    // Finally, abort the in-flight
request.\n    if (xhr.readyState !== xhr.DONE) {\n    xhr.abort();\n    }\n    };\n    }\n    },\n    /**\n *
@license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {DOCUMENT,
parseCookieValue as parseCookieValue} from '@angular/common';\nimport {Inject, Injectable,
InjectionToken, PLATFORM_ID} from '@angular/core';\nimport {Observable} from 'rxjs';\nimport
{HttpHandler} from './backend';\nimport {HttpInterceptor} from './interceptor';\nimport {HttpRequest} from
'./request';\nimport {HttpEvent} from './response';\n\nexport const XSRF_COOKIE_NAME = new
InjectionToken<string>('XSRF_COOKIE_NAME');\nexport const XSRF_HEADER_NAME = new
InjectionToken<string>('XSRF_HEADER_NAME');\n\n/**\n * Retrieves the current XSRF token to use with the
next outgoing request.\n *\n * @publicApi\n */\n\nexport abstract class HttpXsrfTokenExtractor {\n /**\n * Get the
XSRF token to use with an outgoing request.\n *\n * Will be called for every request, so the token may change
between requests.\n */\n abstract getToken(): string|null;\n}\n\n/**\n * `HttpXsrfTokenExtractor` which retrieves
the token from a cookie.\n */\n\n@Injectable()\nexport class HttpXsrfCookieExtractor implements
HttpXsrfTokenExtractor {\n private lastCookieString: string = '';\n private
lastToken: string|null = null;\n\n /**\n * @internal for testing\n */\n private parseCount: number = 0;\n\n
constructor(\n @Inject(DOCUMENT) private doc: any, @Inject(PLATFORM_ID) private platform: string,\n
@Inject(XSRF_COOKIE_NAME) private cookieName: string) {\n\n getToken(): string|null {\n if (this.platform
=== 'server') {\n return null;\n }\n const cookieString = this.doc.cookie || '';\n if (cookieString !==
this.lastCookieString) {\n this.parseCount++;\n this.lastToken = parseCookieValue(cookieString,
this.cookieName);\n this.lastCookieString = cookieString;\n }\n return this.lastToken;\n }\n}\n\n/**\n *
`HttpInterceptor` which adds an XSRF token to eligible outgoing requests.\n */\n\n@Injectable()\nexport class
HttpXsrfInterceptor implements HttpInterceptor {\n constructor(\n private tokenService:
HttpXsrfTokenExtractor,\n @Inject(XSRF_HEADER_NAME) private headerName: string) {\n\n
intercept(req: HttpRequest<any>,

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next: HttpHandler): Observable<HttpEvent<any>> {\n  const lcUrl = req.url.toLowerCase();\n  // Skip both non-
mutating requests and absolute URLs.\n  // Non-mutating requests don't require a token, and absolute URLs require
special handling\n  // anyway as the cookie set\n  // on our origin is not the same as the token expected by another
origin.\n  if (req.method === 'GET' || req.method === 'HEAD' || lcUrl.startsWith('http://') ||\n  lcUrl.startsWith('https://')) {\n    return next.handle(req);\n  }\n  const token = this.tokenService.getToken();\n  // Be careful not to overwrite an existing header of the same name.\n  if (token !== null &&
!req.headers.has(this.headerName)) {\n    req = req.clone({headers: req.headers.set(this.headerName, token)});\n
}\n  return next.handle(req);\n }\n}\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n *
Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport {Injectable, Injector, ModuleWithProviders, NgModule}
from '@angular/core';\nimport {Observable} from 'rxjs';\n\nimport {HttpBackend, HttpHandler} from
'./backend';\nimport {HttpClient} from './client';\nimport {HTTP_INTERCEPTORS, HttpInterceptor,
HttpInterceptorHandler, NoopInterceptor} from './interceptor';\nimport {JsonpCallbackContext,
JsonpClientBackend, JsonpInterceptor} from './jsonp';\nimport {HttpRequest} from './request';\nimport {HttpEvent}
from './response';\nimport {HttpXhrBackend} from './xhr';\nimport {HttpXsrfCookieExtractor, HttpXsrfInterceptor,
HttpXsrfTokenExtractor, XSRF_COOKIE_NAME, XSRF_HEADER_NAME} from './xsrf';\n\n/**\n * An
injectable `HttpHandler` that applies multiple interceptors\n * to a request before passing it to the given
`HttpBackend`.\n *\n * The interceptors are loaded lazily from the injector, to allow\n * interceptors to themselves
inject classes depending indirectly\n * on `HttpInterceptingHandler`
itself.\n * @see `HttpInterceptor`\n */\n@Injectable()\nexport class HttpInterceptingHandler implements
HttpHandler {\n  private chain: HttpHandler|null = null;\n\n  constructor(private backend: HttpBackend, private
injector: Injector) {\n\n    handle(req: HttpRequest<any>): Observable<HttpEvent<any>> {\n    if (this.chain ===
null) {\n      const interceptors = this.injector.get(HTTP_INTERCEPTORS, []);\n      this.chain =
interceptors.reduceRight(\n        (next, interceptor) => new HttpInterceptorHandler(next, interceptor),
this.backend);\n    }\n    return this.chain.handle(req);\n  }\n}\n\n/**\n * Constructs an `HttpHandler` that applies
interceptors\n * to a request before passing it to the given `HttpBackend`.\n *\n * Use as a factory function within
`HttpClientModule`.\n */\n * @ngexport function interceptingHandler(\n  backend: HttpBackend, interceptors:
HttpInterceptor[]|null = []): HttpHandler {\n  if (!interceptors) {\n    return backend;\n  }\n  return
interceptors.reduceRight(\n
    (next, interceptor) => new HttpInterceptorHandler(next, interceptor), backend);\n}\n\n/**\n * Factory function
that determines where to store JSONP callbacks.\n */\n * Ordinarily JSONP callbacks are stored on the `window`
object, but this may not exist\n * in test environments. In that case, callbacks are stored on an anonymous object
instead.\n */\n * @ngexport function jsonpCallbackContext(): Object {\n  if (typeof window === 'object') {\n
return window;\n  }\n  return {};\n}\n\n/**\n * Configures XSRF protection support for outgoing requests.\n *\n *
For a server that supports a cookie-based XSRF protection system,\n * use directly to configure XSRF protection
with the correct\n * cookie and header names.\n *\n * If no names are supplied, the default cookie name is `XSRF-
TOKEN`\n * and the default header name is `X-XSRF-TOKEN`.\n */\n * @publicApi\n */\n@NgModule({\n  providers: [\n    HttpXsrfInterceptor,\n    {provide: HTTP_INTERCEPTORS, useExisting:\n    HttpXsrfInterceptor, multi: true},\n    {provide: HttpXsrfTokenExtractor, useClass: HttpXsrfCookieExtractor},\n
{provide: XSRF_COOKIE_NAME, useValue: 'XSRF-TOKEN'},\n    {provide: XSRF_HEADER_NAME,
useValue: 'X-XSRF-TOKEN'},\n  ],\n})\n\nexport class HttpClientXsrfModule {\n  /**\n   * Disable the default
XSRF protection.\n   */\n  static disable(): ModuleWithProviders<HttpClientXsrfModule> {\n    return {\n
ngModule: HttpClientXsrfModule,\n    providers: [\n      {provide: HttpXsrfInterceptor, useClass:\n      NoopInterceptor},\n    ],\n  };\n}\n\n/**\n * Configure XSRF protection.\n * @param options An object that
can specify either or both\n * cookie name or header name.\n * - Cookie name default is `XSRF-TOKEN`.\n * -
Header name default is `X-XSRF-TOKEN`.\n */\n * @ng static withOptions(options: {\n  cookieName?: string,\n
headerName?: string,\n  } = {}): ModuleWithProviders<HttpClientXsrfModule> {\n  return {\n    ngModule:\n    HttpClientXsrfModule,\n

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OAAO,GAAG,IAAI,GAAG,EAAoB,CAAC;gBAC3C,OAAO,CAAC,KAAK,CAAC,IAAI,CAAC,CAAC,OAAO,CAAC,IAAI;oBAC9B,MAAM,KAAK,GAAG,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,CAAC;oBACb,IAAI,KAAK,GAAG,CAAC,EAAE;wBACb,MAAM,IAAI,GAAG,IAAI,CAAC,KAAK,CAAC,CAAC,EAAE,KAAK,CAAC,CAAC;wBAClC,MAAM,GAAG,GAAG,IAAI,CAAC,WAAW,EAAE,CAAC;wBAC/B,MAAM,KAAK,GAAG,IAAI,CAAC,KAAK,CAAC,KAAK,GAAG,CAAC,CAAC,CAAC,IAAI,EAAE,CAAC;wBAC3C,IAAI,CAAC,sBAAsB,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;wBACvC,IAAI,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,CAAC,EAAE;4BACzB,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,CAAE,CAAC,IAAI,CAAC,KAAK,CAAC,CAAC;yBACpC;6BAAM;4BACL,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,EAAE,CAAC,KAAK,CAAC,CAAC,CAAC;yBACbC;qBACF;iBACF,CAAC,CAAC;aACJ,CAAC;SACH;aAAM;YACL,IAAI,CAAC,QAAQ,GAAG;gBACd,IAAI,CAAC,OAAO,GAAG,IAAI,GAAG,EAAoB,CAAC;gBAC3C,MAAM,CAAC,IAAI,CAAC,OAAO,CAAC,CAAC,OAAO,CAAC,IAAI;oBAC/B,IAAI,MAAM,GAAoB,OAAO,CAAC,IAAI,CAAC,CAAC;oBAC5C,MAAM,GAAG,GAAG,IAAI,CAAC,WAAW,EAAE,CAAC;oBAC/B,IAAI,OAAO,MAAM,KAAK,QAAQ,EAAE;wBAC9B,MAAM,GAAG,CAAC,MAAM,CAAC,CAAC;qBACnB;oBACD,IAAI,MAAM,CAAC,MAAM,GAAG,CAAC,EAAE;wBACrB,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,EAAE,MAAM,CAAC,CAAC;wBAC9B,IAAI,CAAC,sBAAsB,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;qBACxC;iBACF,CAAC,CAAC;aACJ,CAAC;SACH;KACF;;;;;;;;;IASD,GAAG,CAAC,IAAY;QACd,IAAI,CAAC,IAAI,EAAE,CAAC;QAEZ,OAAO,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,IAAI,CAAC,WAAW,EAAE,CAAC,CAAC;KAC7C;;;;;;;;;IASD,GAAG,CAAC,IAAY;QACd,IAAI,CAAC,IAAI,EAAE,CAAC;QAEZ,MAAM,MAAM,GAAG,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,IAAI,CAAC,WAAW,EAAE,CAAC,CAAC;QACpD,OAAO,MAAM,IAAI,MAAM,CAAC,MAAM,GAAG,CAAC,GAAG,MAAM,CAAC,CAAC,CAAC,GAAG,IAAI,CAAC;KACvD;;;;;;;;;IAOD,IAAI;QACF,IAAI,CAAC,IAAI,EAAE,CAAC;QAEZ,OAAO,KAAK,CAAC,IAAI,CAAC,IAAI,CAAC,eAAe,CAAC,MAAM,EAAE,CAAC,CAAC;KACID;;;;;;;;;IASD,MAAM,CAAC,IAAY;QACjB,IAAI,CAAC,IAAI,EAAE,CAAC;QAEZ,OAAO,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,IAAI,CAAC,WAAW,EAAE,CAAC,IAAI,IAAI,CAAC;KACrD;;;;;;;;;IAYD,MAAM,CAAC,IAAY,EAAE,KAAAsB;QACzC,OAAO,IAAI,CAAC,KAAK,CAAC,EAAC,IAAI,EAAE,KAAK,EAAE,EAAE,EAAE,GAAG,EAAC,CAAC,CAAC;KAC3C;;;;;;;;;IAWD,GAAG,CAAC,IAAY,EAAE,KAAAsB;QACtC,OAAO,IAAI,CAAC,KAAK,CAAC,EAAC,IAAI,EAAE,KAAK,EAAE,EAAE,EAAE,GAAG,EAAC,CAAC,CAAC;KAC3C;;;;;;;;;IASD,MAAM,CAAC,IAAY,EAAE,KAAuB;QAC1C,OAAO,IAAI,CAAC,KAAK,CAAC,EAAC,IAAI,EAAE,KAAK,EAAE,EAAE,EAAE,GAAG,EAAC,CAAC,CAAC;KAC3C;IAEO,sBAAsB,CAAC,IAAY,EAAE,MAAc;QACzD,IAAI,CAAC,IAAI,CAAC,eAAe,CAAC,GAAG,CAAC,MAAM,CAAC,EAAE;YACrC,IAAI,CAAC,eAAe,CAAC,GAAG,CAAC,MAAM,EAAE,IAAI,CAAC,CAAC;SACxC;KACF;IAEO,IAAI;QACV,IAAI,CAAC,CAAC,IAAI,CAAC,QAAQ,EAAE;YACnB,IAAI,IAAI,CAAC,QAAQ,YAAY,WAAW,EAAE;gBACxC,IAAI,CAAC,QAAQ,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC;aAC9B;iBAAM;gBACL,IAAI,CAAC,QAAQ,EAAE,CAAC;aACjB;YACD,IAAI,CAAC,QAAQ,GAAG,IAAI,CAAC;YACrB,IAAI,CAAC,CAAC,IAAI,CAAC,UAAU,EAAE;gBACrB,IAAI,CAAC,UAAU,CAAC,OAAO,CAAC,MAAM,IAAI,IAAI,CAAC,WAAW,CAAC,MAAM,CAAC,CAAC,CAAC;gBAC5D,IAAI,CAAC,UAAU,GAAG,IAAI,CAAC;aACxB;SACF;KACF;IAEO,QAAQ,CAAC,KAAkB;QACjC,KAAK,CAAC,IAAI,EAAE,CAAC;QACb,KAAK,CAAC,IAAI,CAAC,KAAK,CAAC,OAAO,CAAC,IAAI,EAAE,CAAC,CAAC,OAAO,CAAC,GAAG;YAC1C,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,EAAE,KAAK,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,CAAE,CAAC,CAAC;YAC/C,IAAI,CAAC,eAAe,CAAC,GAAG,CAAC,GAAG,EAAE,KAAK,CAAC,eAAe,CAAC,GAAG,CAAC,GAAG,CAAE,CAAC,CAAC;SACb,CAAC,CAAC;KACJ;IAEO,KAAK,CAAC,MAAc;QAC1B,MAAM,KAAK,GAAG,IAAI,WAAW,EAAE,CAAC;QACbC,KAAK,CAAC,QAAQ;YACV,CAAC,CAAC,CAAC,IAAI,CAAC,QAAQ,IAAI,IAAI,CAAC,QAAQ,YAAY,WAAW,IAAI,IAAI,CAAC,QAAQ,GAAG,IAAI,CAAC;QACrF,KAAK,CAAC,UAAU,GAAG,CAAC,IAAI,CAAC,UAAU,IAAI,EAAE,EAAE,MAAM,CAAC,CAAC,MAAM,CAAC,CAAC,CAAC;QAC5D,OAAO,KAAK,CAAC;KACd;IAEO,WAAW,CAAC,MAAc;QACbC,MAAM,GAAG,GAAG,MAAM,CAAC,IAAI,CAAC,WAAW,EAAE,CAAC;QACtC,QAAQ,MAAM,CAAC,EAAE;YACf,KAAK,GAAG,CAAC;YACT,KAAK,GAAG;gBACN,IAAI,KAAK,GAAG,MAAM,CAAC,KAAK,CAAC;gBAC1B,IAAI,OAAO,KAAK,KAAK,QAAQ,EAAE;oBAC7B,KAAK,GAAG,CAAC,KAAK,CAAC,CAAC;iBACjB;gBACD,IAAI,KAAK,CAAC,MAAM,KAAK,CAAC,EAAE;oBACtB,OAAO;iBACR;gBACD,IAAI,CAAC,sBAAsB,CAAC,MAAM,CAAC,IAAI,EAAE,

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Found

in path(s):

* /common-13-2-7-tgz/package/fesm2015/http.mjs.map

MIT

No license file was found, but licenses were detected in source scan.

```
{"version":3,"file":"http.mjs","sources":["../../../../packages/common/http/src/backend.ts","../../../../packages/common/http/src/headers.ts","../../../../packages/common/http/src/params.ts","../../../../packages/common/http/src/context.ts","../../../../packages/common/http/src/request.ts","../../../../packages/common/http/src/response.ts","../../../../packages/common/http/src/client.ts","../../../../packages/common/http/src/interceptor.ts","../../../../packages/common/http/src/jsonp.ts","../../../../packages/common/http/src/xhr.ts","../../../../packages/common/http/src/xsrf.ts","../../../../packages/common/http/src/module.ts","../../../../packages/common/http/public_api.ts","../../../../packages/common/http/index.ts","../../../../packages/common/http/http.ts"],"sourcesContent":["/**\n * @license\n * Copyright Google LLC All Rights
```

```
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n * LICENSE file at https://angular.io/license\n *\n\nimport {Observable} from 'rxjs';\nimport {HttpRequest} from\n './request';\nimport {HttpEvent} from './response';\n\n/**\n * Transforms an `HttpRequest` into a stream of\n * `HttpEvent`s, one of which will likely be a\n * `HttpResponse`.\n *\n * `HttpHandler` is injectable. When injected,\n * the handler instance dispatches requests to the\n * first interceptor in the chain, which dispatches to the second, etc,\n * eventually reaching the\n * `HttpBackend`.\n *\n * In an `HttpInterceptor`, the `HttpHandler` parameter is the next\n * interceptor in the chain.\n *\n * @publicApi\n *\n\nexport abstract class HttpHandler {\n  abstract handle(req:
```

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HttpRequest<any>): Observable<HttpEvent<any>>;\n}\n\n/**\n * A final `HttpHandler` which will dispatch the
request via browser HTTP APIs to a backend.\n *\n * Interceptors sit between the `HttpClient` interface
and the `HttpBackend`.\n *\n * When injected, `HttpBackend` dispatches requests directly to the backend, without
going\n * through the interceptor chain.\n *\n * @publicApi\n */\nexport abstract class HttpBackend implements
HttpHandler {\n  abstract handle(req: HttpRequest<any>): Observable<HttpEvent<any>>;\n}\n\n", "/*\n *
@license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\ninterface Update {\n
  name: string;\n  value?: string|string[];\n  op: 'a'|'s'|'d';\n}\n\n/**\n * Represents the header configuration options for
an HTTP request.\n *\n * Instances are immutable. Modifying methods return a cloned\n * instance with the change.
The original object is never changed.\n *\n * @publicApi\n */\nexport class HttpHeaders {\n  /**\n   * Internal map
of lowercase header names to values.\n   *\n   * // TODO(issue/24571): remove '!'.\n   private headers!:\n
  Map<string, string[]>;\n\n  /**\n   * Internal map of lowercased header names to the normalized\n   * form of the
name (the form seen first).\n   *\n   private normalizedNames: Map<string, string> = new Map();\n\n  /**\n   *
Complete the lazy initialization of this object (needed before reading).\n   *\n   private lazyInit!:\n
HttpHeaders[Function]|null;\n\n  /**\n   * Queued updates to be materialized the next initialization.\n   *\n   private
lazyUpdate: Update[]|null = null;\n\n  /**\n   * Constructs a new HTTP header object with the given values.*\n\n
  constructor(headers?: string|{[name: string]: string | string[]}) {\n    if (!headers) {\n      this.headers = new
Map<string, string[]>();\n    } else if (typeof headers === 'string') {\n      this.lazyInit = () => {\n        this.headers =
new Map<string, string[]>();\n        headers.split('\\n').forEach(line => {\n          const index = line.indexOf(':');\n
          if (index > 0) {\n            const name = line.slice(0, index);\n
            const key = name.toLowerCase();\n            const value = line.slice(index + 1).trim();\n
            this.maybeSetNormalizedName(name, key);\n          } if (this.headers.has(key)) {\n
            this.headers.get(key)!.push(value);\n          } else {\n            this.headers.set(key, [value]);\n          }\n
        });\n      } else {\n        this.lazyInit = () => {\n          this.headers = new Map<string, string[]>();\n
          Object.keys(headers).forEach(name => {\n            let values: string|string[] = headers[name];\n            const key =
name.toLowerCase();\n            if (typeof values === 'string') {\n              values = [values];\n            }\n            if
(values.length > 0) {\n              this.headers.set(key, values);\n              this.maybeSetNormalizedName(name, key);\n
            }\n          });\n        }\n      }\n    }\n  }\n\n  /**\n   * Checks for existence of a given header.\n   *\n   * @param name The
header name to check for existence.\n
   *\n   * @returns True if the header exists, false otherwise.\n   *\n   has(name: string): boolean {\n    this.init();\n\n
    return this.headers.has(name.toLowerCase());\n  }\n\n  /**\n   * Retrieves the first value of a given header.\n   *\n   *
@param name The header name.\n   *\n   * @returns The value string if the header exists, null otherwise\n   *\n
  get(name: string): string|null {\n    this.init();\n\n    const values = this.headers.get(name.toLowerCase());\n    return
values && values.length > 0 ? values[0] : null;\n  }\n\n  /**\n   * Retrieves the names of the headers.\n   *\n   *
  @returns A list of header names.\n   *\n   keys(): string[] {\n    this.init();\n\n    return
Array.from(this.normalizedNames.values());\n  }\n\n  /**\n   * Retrieves a list of values for a given header.\n   *\n
  * @param name The header name from which to retrieve values.\n   *\n   * @returns A string of values if the header
exists, null otherwise.\n   *\n   getAll(name: string): string[]|null\n
  {\n    this.init();\n\n    return this.headers.get(name.toLowerCase()) || null;\n  }\n\n  /**\n   * Appends a new value to
the existing set of values for a header\n   * and returns them in a clone of the original instance.\n   *\n   * @param
name The header name for which to append the values.\n   * @param value The value to append.\n   *\n   *
  @returns A clone of the HTTP headers object with the value appended to the given header.\n   *\n\n   append(name:
string, value: string|string[]): HttpHeaders {\n    return this.clone({name, value, op: 'a'});\n  }\n\n  /**\n   * Sets or
modifies a value for a given header in a clone of the original instance.\n   * If the header already exists, its value is
replaced with the given value\n   * in the returned object.\n   *\n   * @param name The header name.\n   * @param
value The value or values to set or override for the given header.\n   *\n   * @returns A clone of the HTTP headers
object with the newly set header value.\n   *\n   set(name:

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string, value: string|string[]): HttpHeaders {\n  return this.clone({name, value, op: 's'});\n }\n /**\n  * Deletes
values for a given header in a clone of the original instance.\n  *\n  * @param name The header name.\n  *
@param value The value or values to delete for the given header.\n  *\n  * @returns A clone of the HTTP headers
object with the given value deleted.\n  */\n delete(name: string, value?: string|string[]): HttpHeaders {\n  return
this.clone({name, value, op: 'd'});\n }\n\n private maybeSetNormalizedName(name: string, lcName: string): void
{\n  if (!this.normalizedNames.has(lcName)) {\n    this.normalizedNames.set(lcName, name);\n  }\n }\n\n private
init(): void {\n  if (!!this.lazyInit) {\n    if (this.lazyInit instanceof HttpHeaders) {\n
this.copyFrom(this.lazyInit);\n    } else {\n      this.lazyInit();\n    }\n    this.lazyInit = null;\n    if
(!!this.lazyUpdate) {\n      this.lazyUpdate.forEach(update => this.applyUpdate(update));\n
      this.lazyUpdate = null;\n    }\n  }\n }\n\n private copyFrom(other: HttpHeaders) {\n  other.init();\n
Array.from(other.headers.keys()).forEach(key => {\n  this.headers.set(key, other.headers.get(key)!);\n
this.normalizedNames.set(key, other.normalizedNames.get(key)!);\n });\n }\n\n private clone(update: Update):
HttpHeaders {\n  const clone = new HttpHeaders();\n  clone.lazyInit =\n    (!!this.lazyInit && this.lazyInit
instanceof HttpHeaders) ? this.lazyInit : this;\n  clone.lazyUpdate = (this.lazyUpdate || []).concat([update]);\n
return clone;\n }\n\n private applyUpdate(update: Update): void {\n  const key = update.name.toLowerCase();\n
switch (update.op) {\n    case 'a':\n      case 's':\n        let value = update.value!;\n        if (typeof value === 'string')
{\n          value = [value];\n        }\n        if (value.length === 0) {\n          return;\n        }\n
this.maybeSetNormalizedName(update.name,
key);\n        const base = (update.op === 'a' ? this.headers.get(key) : undefined) || [];\n        base.push(...value);\n
this.headers.set(key, base);\n        break;\n      case 'd':\n        const toDelete = update.value as string | undefined;\n
if (!toDelete) {\n          this.headers.delete(key);\n          this.normalizedNames.delete(key);\n        } else {\n          let
existing = this.headers.get(key);\n          if (!existing) {\n            return;\n          }\n          existing =
existing.filter(value => toDelete.indexOf(value) === -1);\n          if (existing.length === 0) {\n
this.headers.delete(key);\n          this.normalizedNames.delete(key);\n        } else {\n          this.headers.set(key,
existing);\n        }\n        }\n        break;\n      }\n }\n\n /**\n  * @internal\n  */\n forEach(fn: (name: string, values:
string[]) => void) {\n  this.init();\n  Array.from(this.normalizedNames.keys())\n    .forEach(key =>
fn(this.normalizedNames.get(key)!,
this.headers.get(key)!));\n }\n }\n\n", "/*\n  * @license\n  * Copyright Google LLC All Rights Reserved.\n  *\n  * Use
of this source code is governed by an MIT-style license that can be\n  * found in the LICENSE file at
https://angular.io/license\n  */\n\n  * A codec for encoding and decoding parameters in URLs.\n  *\n  * Used by
`HttpParams`\n  *\n  * @publicApi\n  */\n\n  * export interface HttpParameterCodec {\n    encodeKey(key: string):
string;\n    encodeValue(value: string): string;\n\n    decodeKey(key: string): string;\n    decodeValue(value: string):
string;\n  }\n\n  * Provides encoding and decoding of URL parameter and query-string values.\n  *\n  * Serializes
and parses URL parameter keys and values to encode and decode them.\n  * If you pass URL query parameters
without encoding,\n  * the query parameters can be misinterpreted at the receiving end.\n  *\n  * @publicApi\n  */\n\n  * export class HttpUrlEncodingCodec implements HttpParameterCodec {\n    /**\n     * Encodes
a key name for a URL parameter or query-string.\n     * @param key The key name.\n     * @returns The encoded key
name.\n     */\n    encodeKey(key: string): string {\n      return standardEncoding(key);\n    }\n\n    /**\n     * Encodes the
value of a URL parameter or query-string.\n     * @param value The value.\n     * @returns The encoded value.\n     */\n
    encodeValue(value: string): string {\n      return standardEncoding(value);\n    }\n\n    /**\n     * Decodes an encoded
URL parameter or query-string key.\n     * @param key The encoded key name.\n     * @returns The decoded key
name.\n     */\n    decodeKey(key: string): string {\n      return decodeURIComponent(key);\n    }\n\n    /**\n     * Decodes
an encoded URL parameter or query-string value.\n     * @param value The encoded value.\n     * @returns The
decoded value.\n     */\n    decodeValue(value: string) {\n      return decodeURIComponent(value);\n    }\n  }\n\n\nfunction
paramParser(rawParams: string, codec: HttpParameterCodec): Map<string, string[]> {\n  const map = new
Map<string,
string[]>();\n  if (rawParams.length > 0) {\n    // The `window.location.search` can be used while creating an
instance of the `HttpParams` class\n    // (e.g. `new HttpParams({ fromString: window.location.search })`). The

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`window.location.search`\n // may start with the `?` char, so we strip it if it's present.\n const params: string[] =
rawParams.replace(/^\\?/, "").split('&');\n params.forEach((param: string) => {\n const eqIdx =
param.indexOf('=');\n const [key, val]: string[] = eqIdx == -1 ?\n [codec.decodeKey(param), "]:\n [codec.decodeKey(param.slice(0, eqIdx)), codec.decodeValue(param.slice(eqIdx + 1))];\n const list =
map.get(key) || [];\n list.push(val);\n map.set(key, list);\n });\n }\n return map;\n}\n\n/**\n * Encode input
string with standard encodeURIComponent and then un-encode specific characters.\n */\nconst
STANDARD_ENCODING_REGEX = /(\\d[a-f0-9])/gi;\nconst STANDARD_ENCODING_REPLACEMENTS:
{[x: string]:
string} = {\n '40': '@',\n '3A': ':',\n '24': '$',\n '2C': ',',\n '3B': ';',\n '2B': '+',\n '3D': '=',\n '3F': '?',\n '2F':
'/',\n};\n\nfunction standardEncoding(v: string): string {\n return encodeURIComponent(v).replace(\n
STANDARD_ENCODING_REGEX, (s, t) => STANDARD_ENCODING_REPLACEMENTS[t] ??
s);\n}\n\nfunction valueToString(value: string|number|boolean): string {\n return `${value}`;\n}\n\ninterface
Update {\n param: string;\n value?: string|number|boolean;\n op: 'a'|'d'|'s';\n}\n\n/**\n * Options used to construct
an `HttpParams` instance.\n */\n * @publicApi\n */\nexport interface HttpParamsOptions {\n /**\n * String
representation of the HTTP parameters in URL-query-string format.\n * Mutually exclusive with `fromObject`.\n
*/\n fromString?: string;\n /**\n * Object map of the HTTP parameters. Mutually exclusive with `fromString`.\n
*/\n fromObject?: {[param: string]: string|number|boolean|ReadonlyArray<string|number|boolean>};\n\n /**\n * Encoding
codec
used to parse and serialize the parameters.\n */\n encoder?: HttpParameterCodec;\n}\n\n/**\n * An HTTP
request/response body that represents serialized parameters,\n * per the MIME type `application/x-www-form-
urlencoded`.\n */\n * This class is immutable; all mutation operations return a new instance.\n */\n * @publicApi\n
*/\nexport class HttpParams {\n private map: Map<string, string[]>|null;\n private encoder: HttpParameterCodec;\n
private updates: Update[]|null = null;\n private cloneFrom: HttpParams|null = null;\n\n constructor(options:
HttpParamsOptions = {} as HttpParamsOptions) {\n this.encoder = options.encoder || new
HttpUrlEncodingCodec();\n if (!!options.fromString) {\n if (!!options.fromObject) {\n throw new
Error(`Cannot specify both fromString and fromObject.`);\n }\n this.map = paramParser(options.fromString,
this.encoder);\n } else if (!!options.fromObject) {\n this.map = new Map<string, string[]>();\n
Object.keys(options.fromObject).forEach(key
=> {\n const value = (options.fromObject as any)[key];\n this.map!.set(key, Array.isArray(value) ? value :
[value]);\n });\n } else {\n this.map = null;\n }\n }\n\n /**\n * Reports whether the body includes one or
more values for a given parameter.\n * @param param The parameter name.\n * @returns True if the parameter
has one or more values,\n * false if it has no value or is not present.\n */\n has(param: string): boolean {\n
this.init();\n return this.map!.has(param);\n }\n\n /**\n * Retrieves the first value for a parameter.\n * @param
param The parameter name.\n * @returns The first value of the given parameter,\n * or `null` if the parameter is
not present.\n */\n get(param: string): string|null {\n this.init();\n const res = this.map!.get(param);\n return
!!res ? res[0] : null;\n }\n\n /**\n * Retrieves all values for a parameter.\n * @param param The parameter
name.\n * @returns
All values in a string array,\n * or `null` if the parameter not present.\n */\n getAll(param: string): string[]|null
{\n this.init();\n return this.map!.get(param) || null;\n }\n\n /**\n * Retrieves all the parameters for this body.\n
*/\n * @returns The parameter names in a string array.\n */\n keys(): string[] {\n this.init();\n return
Array.from(this.map!.keys());\n }\n\n /**\n * Appends a new value to existing values for a parameter.\n *
*/\n * @param param The parameter name.\n * @param value The new value to add.\n * @return A new body with the
appended value.\n */\n append(param: string, value: string|number|boolean): HttpParams {\n return
this.clone({param, value, op: 'a'});\n }\n\n /**\n * Constructs a new body with appended values for the given
parameter name.\n * @param params parameters and values\n * @return A new body with the new value.\n */\n
appendAll(params: {[param: string]: string|number|boolean|ReadonlyArray<string|number|boolean>});\n\n
HttpParams {\n const updates: Update[] = [];\n Object.keys(params).forEach(param => {\n const value =
params[param];\n if (Array.isArray(value)) {\n value.forEach(_value => {\n updates.push({param,

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value: _value, op: 'a'});\n    });\n    } else {\n        updates.push({param, value: value as (string | number |
boolean), op: 'a'});\n    }\n    }\n    return this.clone(updates);\n }\n\n /**\n  * Replaces the value for a
parameter.\n  * @param param The parameter name.\n  * @param value The new value.\n  * @return A new body
with the new value.\n  */\n  set(param: string, value: string|number|boolean): HttpParams {\n    return
this.clone({param, value, op: 's'});\n }\n\n /**\n  * Removes a given value or all values from a parameter.\n  *
@param param The parameter name.\n  * @param value The value to remove, if provided.\n  * @return A new
body with the given value removed, or with all values\n  * removed if no value
is specified.\n  */\n  delete(param: string, value?: string|number|boolean): HttpParams {\n    return
this.clone({param, value, op: 'd'});\n }\n\n /**\n  * Serializes the body to an encoded string, where key-value pairs
(separated by `=`) are\n  * separated by `&`s.\n  */\n  toString(): string {\n    this.init();\n    return this.keys()\n    .map(key => {\n        const eKey = this.encoder.encodeKey(key);\n        // `a: ['1']` produces `a=1`\n        // `b:
[]` produces ``\n        // `c: ['1', '2']` produces `c=1&c=2`\n        return this.map!.get(key)!.map(value => eKey +
'=' + this.encoder.encodeValue(value))\n        .join('&');\n    })\n    // filter out empty values because `b: []`
produces ``\n    // which results in `a=1&&c=1&c=2` instead of `a=1&c=1&c=2` if we don't\n    .filter(param
=> param !== "")\n    .join('&');\n }\n\n private clone(update: Update|Update[]): HttpParams {\n    const clone =
new HttpParams({encoder:
this.encoder} as HttpParamsOptions);\n    clone.cloneFrom = this.cloneFrom || this;\n    clone.updates =
(this.updates || []).concat(update);\n    return clone;\n }\n\n private init() {\n    if (this.map === null) {\n        this.map
= new Map<string, string[]>();\n    }\n    if (this.cloneFrom !== null) {\n        this.cloneFrom.init();\n
this.cloneFrom.keys().forEach(key => this.map!.set(key, this.cloneFrom!.map!.get(key)!));\n
this.updates!.forEach(update => {\n        switch (update.op) {\n            case 'a':\n                const base =
(update.op === 'a' ? this.map!.get(update.param) : undefined) || [];\n                base.push(valueToString(update.value!));\n
this.map!.set(update.param, base);\n                break;\n            case
'd':\n                if (update.value !== undefined) {\n                    let base = this.map!.get(update.param) || [];\n                    const
idx = base.indexOf(valueToString(update.value));\n                    if (idx !== -1)\n                        {\n                            base.splice(idx, 1);\n                        }\n                    if (base.length > 0) {\n                        this.map!.set(update.param,
base);\n                    } else {\n                        this.map!.delete(update.param);\n                    }\n                } else {\n
this.map!.delete(update.param);\n                break;\n            }\n        });\n        this.cloneFrom = this.updates =
null;\n    }\n }\n\n };\n\n", /**\n  * @license\n  * Copyright Google LLC All Rights Reserved.\n  * Use of this source
code is governed by an MIT-style license that can be\n  * found in the LICENSE file at https://angular.io/license\n
*/\n\n /**\n  * A token used to manipulate and access values stored in `HttpContext`.\n  */\n  * @publicApi\n
*/\n  * @export class HttpContextToken<T> {\n    constructor(public readonly defaultValue: () => T) {}\n }\n\n /**\n  *
HttpContext stores arbitrary user defined values and ensures type safety without\n  * actually knowing the types. It is
backed by a `Map` and guarantees
that keys do not clash.\n  */\n  * This context is mutable and is shared between cloned requests unless explicitly
specified.\n  */\n  * @usageNotes\n  * ### Usage Example\n  * ```typescript\n  * // inside cache.interceptors.ts\n
* export const IS_CACHE_ENABLED = new HttpContextToken<boolean>(() => false);\n  * export class
CacheInterceptor implements HttpInterceptor {\n  *   intercept(req: HttpRequest<any>, delegate: HttpHandler):
Observable<HttpEvent<any>> {\n  *     if (req.context.get(IS_CACHE_ENABLED) === true) {\n  *       return ...;\n
*     }\n  *     return delegate.handle(req);\n  *   }\n }\n\n  * // inside a service\n  *
this.httpClient.get('/api/weather', {\n  *   context: new HttpContext().set(IS_CACHE_ENABLED, true)\n  *
}).subscribe(...);\n  * ```\n  */\n  * @publicApi\n  */\n  * @export class HttpContext {\n    private readonly map = new
Map<HttpContextToken<unknown>, unknown>();\n\n    /**\n     * Store a value in the context. If a value is already
present it will be overwritten.\n     *\n     * @param token The reference to an instance of `HttpContextToken`.\n     * @param value The value to
store.\n     * @returns A reference to itself for easy chaining.\n     */\n    set<T>(token: HttpContextToken<T>,
value: T): HttpContext {\n        this.map.set(token, value);\n        return this;\n    }\n\n    /**\n     * Retrieve the value
associated with the given token.\n     *\n     * @param token The reference to an instance of `HttpContextToken`.\n

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*\n * @returns The stored value or default if one is defined.\n */\n get<T>(token: HttpContextToken<T>): T {\n
if (!this.map.has(token)) {\n   this.map.set(token, token.defaultValue);\n } \n return this.map.get(token) as
T;\n }\n\n /**\n * Delete the value associated with the given token.\n *\n * @param token The reference to an
instance of `HttpContextToken`.\n *\n * @returns A reference to itself for easy chaining.\n */\n delete(token:
HttpContextToken<unknown>): HttpContext {\n   this.map.delete(token);\n
return this;\n }\n\n /**\n * Checks for existence of a given token.\n *\n * @param token The reference to an
instance of `HttpContextToken`.\n *\n * @returns True if the token exists, false otherwise.\n */\n has(token:
HttpContextToken<unknown>): boolean {\n   return this.map.has(token);\n }\n\n /**\n * @returns a list of
tokens currently stored in the context.\n */\n keys(): IterableIterator<HttpContextToken<unknown>> {\n   return
this.map.keys();\n }\n}\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this
source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\nimport {HttpContext} from './context';\nimport {HttpHeaders} from
'./headers';\nimport {HttpParams} from './params';\n\n\n/**\n * Construction interface for `HttpRequest`s.\n *\n *
All values are optional and will override default values if provided.\n */\ninterface HttpRequestInit {\n   headers?:
HttpHeaders;\n   context?: HttpContext;\n   reportProgress?: boolean;\n   params?: HttpParams;\n   responseType?:
'arraybuffer'|'blob'|'json'|'text';\n   withCredentials?: boolean;\n}\n\n\n/**\n * Determine whether the given HTTP
method may include a body.\n */\nfunction mightHaveBody(method: string): boolean {\n   switch (method) {\n
case 'DELETE':\n   case 'GET':\n   case 'HEAD':\n   case 'OPTIONS':\n   case 'JSONP':\n     return false;\n
default:\n     return true;\n   }\n}\n\n\n/**\n * Safely assert whether the given value is an ArrayBuffer.\n *\n * In some
execution environments ArrayBuffer is not defined.\n */\nfunction isArrayBuffer(value: any): value is ArrayBuffer {\n
return typeof ArrayBuffer !== 'undefined' && value instanceof ArrayBuffer;\n}\n\n\n/**\n * Safely assert
whether the given value is a Blob.\n *\n * In some execution environments Blob is not defined.\n */\nfunction
isBlob(value: any): value is Blob {\n   return typeof Blob !== 'undefined' && value instanceof
Blob;\n}\n\n\n/**\n * Safely assert whether the given value is a FormData instance.\n *\n * In some execution
environments FormData is not defined.\n */\nfunction isFormData(value: any): value is FormData {\n   return typeof
FormData !== 'undefined' && value instanceof FormData;\n}\n\n\n/**\n * Safely assert whether the given value is a
URLSearchParams instance.\n *\n * In some execution environments URLSearchParams is not defined.\n */\nfunction
isUrlSearchParams(value: any): value is URLSearchParams {\n   return typeof URLSearchParams !==
'undefined' && value instanceof URLSearchParams;\n}\n\n\n/**\n * An outgoing HTTP request with an optional
typed body.\n *\n * `HttpRequest` represents an outgoing request, including URL, method,\n * headers, body, and
other request configuration options. Instances should be\n * assumed to be immutable. To modify a `HttpRequest`,
the `clone`\n * method should be used.\n *\n * @publicApi\n */\nexport class HttpRequest<T> {\n   /**\n    * The
request body, or `null`\n    * if one isn't set.\n    *\n    * Bodies are not enforced to be immutable, as they can include a reference to any\n    * user-
defined data type. However, interceptors should take care to preserve\n    * idempotence by treating them as such.\n    */\n   readonly body: T|null = null;\n\n   /**\n    * Outgoing headers for this request.\n    */\n   // TODO(issue/24571):
remove '!'.\n   readonly headers!: HttpHeaders;\n\n   /**\n    * Shared and mutable context that can be used by
interceptors\n    */\n   readonly context!: HttpContext;\n\n   /**\n    * Whether this request should be made in a way
that exposes progress events.\n    *\n    * Progress events are expensive (change detection runs on each event) and
so\n    * they should only be requested if the consumer intends to monitor them.\n    */\n   readonly reportProgress:
boolean = false;\n\n   /**\n    * Whether this request should be sent with outgoing credentials (cookies).\n    */\n  
readonly withCredentials: boolean = false;\n\n   /**\n    * The expected
response type of the server.\n    *\n    * This is used to parse the response appropriately before returning it to\n    * the
requestee.\n    */\n   readonly responseType: 'arraybuffer'|'blob'|'json'|'text' = 'json';\n\n   /**\n    * The outgoing HTTP
request method.\n    */\n   readonly method: string;\n\n   /**\n    * Outgoing URL parameters.\n    *\n    * To pass a
string representation of HTTP parameters in the URL-query-string format,\n    * the `HttpParamsOptions`\n    * `fromString` may be used. For example:\n    *\n    * ```\n    * new HttpParams({fromString: 'angular=awesome'})\n    *
```\n    */\n   // TODO(issue/24571): remove '!'.\n   readonly params!: HttpParams;\n\n   /**\n    * The outgoing URL

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with all URL parameters set.\n */\n readonly urlWithParams: string;\n\n constructor(method:
'DELETE'|'GET'|'HEAD'|'JSONP'|'OPTIONS', url: string, init?: {\n headers?: HttpHeaders,\n context?:
HttpContext,\n reportProgress?: boolean,\n params?: HttpParams,\n responseType?:
'arraybuffer'|'blob'|'json'|'text',\n
 withCredentials?: boolean,\n });\n constructor(method: 'POST'|'PUT'|'PATCH', url: string, body: T|null, init?: {\n
 headers?: HttpHeaders,\n context?: HttpContext,\n reportProgress?: boolean,\n params?: HttpParams,\n
 responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n });\n constructor(method: string,
url: string, body: T|null, init?: {\n headers?: HttpHeaders,\n context?: HttpContext,\n reportProgress?:
boolean,\n params?: HttpParams,\n responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?:
boolean,\n });\n constructor(\n method: string, readonly url: string, third?: T{\n headers?: HttpHeaders,\n
 context?: HttpContext,\n reportProgress?: boolean,\n params?: HttpParams,\n responseType?:
'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n }|null,\n fourth?: {\n headers?:
HttpHeaders,\n context?:
HttpContext,\n reportProgress?: boolean,\n params?: HttpParams,\n responseType?:
'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n }) {\n this.method = method.toUpperCase();\n
 // Next, need to figure out which argument holds the HttpRequestInit\n // options, if any.\n let options:
HttpRequestInit|undefined;\n\n // Check whether a body argument is expected. The only valid way to omit\n //
the body argument is to use a known no-body method like GET.\n if (mightHaveBody(this.method) || !!fourth) {\n
 // Body is the third argument, options are the fourth.\n this.body = (third !== undefined) ? third as T : null;\n
 options = fourth;\n } else {\n // No body required, options are the third argument. The body stays null.\n
 options = third as HttpRequestInit;\n }\n\n // If options have been passed, interpret them.\n if (options) {\n //
Normalize reportProgress and withCredentials.\n
 this.reportProgress = !!options.reportProgress;\n this.withCredentials = !!options.withCredentials;\n\n //
Override default response type of 'json' if one is provided.\n if (!!options.responseType) {\n
 this.responseType = options.responseType;\n }\n\n // Override headers if they're provided.\n if
(!!options.headers) {\n this.headers = options.headers;\n }\n\n if (!!options.context) {\n this.context =
options.context;\n }\n\n if (!!options.params) {\n this.params = options.params;\n }\n }\n\n // If no
headers have been passed in, construct a new HttpHeaders instance.\n if (!this.headers) {\n this.headers = new
HttpHeaders();\n }\n\n // If no context have been passed in, construct a new HttpContext instance.\n if
(!this.context) {\n this.context = new HttpContext();\n }\n\n // If no parameters have been passed in, construct
a new HttpUrlEncodedParams instance.\n
 if (!this.params) {\n this.params = new HttpParams();\n this.urlWithParams = url;\n } else {\n // Encode
the parameters to a string in preparation for inclusion in the URL.\n const params = this.params.toString();\n if
(params.length === 0) {\n // No parameters, the visible URL is just the URL given at creation time.\n
 this.urlWithParams = url;\n } else {\n // Does the URL already have query parameters? Look for '?'.\n
 const qIdx = url.indexOf('?');\n // There are 3 cases to handle:\n // 1) No existing parameters -> append '?'
followed by params.\n // 2) '?' exists and is followed by existing query string ->\n // append '&' followed
by params.\n // 3) '?' exists at the end of the url -> append params directly.\n // This basically amounts to
determining the character, if any, with\n // which to join the URL and parameters.\n const sep: string = qIdx
=== -1 ? '?' : (qIdx
< url.length - 1 ? '&' : '');\n this.urlWithParams = url + sep + params;\n }\n }\n\n /**\n * Transform
the free-form body into a serialized format suitable for\n * transmission to the server.\n */\n serializeBody():
ArrayBuffer|Blob|FormData|string|null {\n // If no body is present, no need to serialize it.\n if (this.body ===
null) {\n return null;\n }\n // Check whether the body is already in a serialized form. If so,\n // it can just be
returned directly.\n if (isArrayBuffer(this.body) || isBlob(this.body) || isFormData(this.body) ||\n
isUrlSearchParams(this.body) || typeof this.body === 'string') {\n return this.body;\n }\n // Check whether the
body is an instance of HttpUrlEncodedParams.\n if (this.body instanceof HttpParams) {\n return
this.body.toString();\n }\n // Check whether the body is an object or array, and serialize with JSON if so.\n if

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(typeof this.body === 'object' || typeof this.body
=== 'boolean' ||\n Array.isArray(this.body)) {\n return JSON.stringify(this.body);\n } \n // Fall back on
toString() for everything else.\n return (this.body as any).toString();\n } \n\n /**\n * Examine the body and
attempt to infer an appropriate MIME type\n * for it.\n *\n * If no such type can be inferred, this method will
return `null`.\n *\n * detectContentTypeHeader(): string|null {\n // An empty body has no content type.\n if
(this.body === null) {\n return null;\n } \n // FormData bodies rely on the browser's content type
assignment.\n if (isFormData(this.body)) {\n return null;\n } \n // Blobs usually have their own content type.
If it doesn't, then\n // no type can be inferred.\n if (isBlob(this.body)) {\n return this.body.type || null;\n } \n
// Array buffers have unknown contents and thus no type can be inferred.\n if (isArrayBuffer(this.body)) {\n
return null;\n } \n // Technically,
strings could be a form of JSON data, but it's safe enough\n // to assume they're plain strings.\n if (typeof
this.body === 'string') {\n return 'text/plain';\n } \n // `HttpUrlEncodedParams` has its own content-type.\n if
(this.body instanceof HttpParams) {\n return 'application/x-www-form-urlencoded;charset=UTF-8';\n } \n //
Arrays, objects, boolean and numbers will be encoded as JSON.\n if (typeof this.body === 'object' || typeof
this.body === 'number' ||\n typeof this.body === 'boolean') {\n return 'application/json';\n } \n // No type
could be inferred.\n return null;\n } \n\n clone(): HttpRequest<T>;\n clone(update: {\n headers?:
HttpHeaders,\n context?: HttpContext,\n reportProgress?: boolean,\n params?: HttpParams,\n
responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n body?: T|null,\n method?:
string,\n url?: string,\n setHeaders?: {[name: string]: string|string[]},\n
setParams?: {[param: string]: string},\n }): HttpRequest<T>;\n clone<V>(update: {\n headers?:
HttpHeaders,\n context?: HttpContext,\n reportProgress?: boolean,\n params?: HttpParams,\n
responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n body?: V|null,\n method?:
string,\n url?: string,\n setHeaders?: {[name: string]: string|string[]},\n setParams?: {[param: string]: string},\n
}): HttpRequest<V>;\n clone(update: {\n headers?: HttpHeaders,\n context?: HttpContext,\n reportProgress?:
boolean,\n params?: HttpParams,\n responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?:
boolean,\n body?: any|null,\n method?: string,\n url?: string,\n setHeaders?: {[name: string]:
string|string[]},\n setParams?: {[param: string]: string};\n } = {}): HttpRequest<any> {\n // For method, url, and
responseType, take the current value unless\n // it is overridden in the update hash.\n
const method = update.method || this.method;\n const url = update.url || this.url;\n const responseType =
update.responseType || this.responseType;\n // The body is somewhat special - a `null` value in update.body
means\n // whatever current body is present is being overridden with an empty\n // body, whereas an `undefined`
value in update.body implies no\n // override.\n const body = (update.body !== undefined) ? update.body :
this.body;\n // Carefully handle the boolean options to differentiate between\n // `false` and `undefined` in the
update args.\n const withCredentials =\n (update.withCredentials !== undefined) ? update.withCredentials :
this.withCredentials;\n const reportProgress =\n (update.reportProgress !== undefined) ?
update.reportProgress : this.reportProgress;\n // Headers and params may be appended to if `setHeaders` or\n //
`setParams` are used.\n let headers = update.headers || this.headers;\n
let params = update.params || this.params;\n // Pass on context if needed\n const context = update.context ??
this.context;\n // Check whether the caller has asked to add headers.\n if (update.setHeaders !== undefined) {\n
// Set every requested header.\n headers =\n Object.keys(update.setHeaders)\n .reduce((headers,
name) => headers.set(name, update.setHeaders![name]), headers);\n } \n // Check whether the caller has asked
to set params.\n if (update.setParams) {\n // Set every requested param.\n params =
Object.keys(update.setParams)\n .reduce((params, param) => params.set(param,
update.setParams![param]), params);\n } \n // Finally, construct the new HttpRequest using the pieces from
above.\n return new HttpRequest(method, url, body, {\n params,\n headers,\n context,\n
reportProgress,\n responseType,\n withCredentials,\n });\n } \n\n\n /**\n * @license\n
* Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license
that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {HttpHeaders} from

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'/headers';\n\n/**\n * Type enumeration for the different kinds of `HttpEvent`.\n * \n * @publicApi\n */\nexport
enum HttpEventType {\n /**\n * The request was sent out over the wire.\n */\n Sent,\n\n /**\n * An upload
progress event was received.\n */\n UploadProgress,\n\n /**\n * The response status code and headers were
received.\n */\n ResponseHeader,\n\n /**\n * A download progress event was received.\n */\n
DownloadProgress,\n\n /**\n * The full response including the body was received.\n */\n Response,\n\n /**\n
* A custom event from an interceptor or a backend.\n */\n User,\n}\n\n/**\n * Base interface for progress events.\n
*\n * @publicApi\n */\nexport interface HttpProgressEvent {\n /**\n * Progress event type is either upload
or download.\n */\n type: HttpEventType.DownloadProgress|HttpEventType.UploadProgress;\n\n /**\n *
Number of bytes uploaded or downloaded.\n */\n loaded: number;\n\n /**\n * Total number of bytes to upload or
download. Depending on the request or\n * response, this may not be computable and thus may not be present.\n
*\n * total?: number;\n}\n\n/**\n * A download progress event.\n * \n * @publicApi\n */\nexport interface
HttpDownloadProgressEvent extends HttpProgressEvent {\n type: HttpEventType.DownloadProgress;\n\n /**\n *
The partial response body as downloaded so far.\n */\n * Only present if the responseType was `text`.\n */\n
partialText?: string;\n}\n\n/**\n * An upload progress event.\n * \n * @publicApi\n */\nexport interface
HttpUploadProgressEvent extends HttpProgressEvent {\n type: HttpEventType.UploadProgress;\n}\n\n/**\n * An
event indicating that the request was sent to the server. Useful\n * when a request may be retried multiple times, to
distinguish between\n * retries on the final event stream.\n * \n * @publicApi\n */\nexport interface HttpSentEvent
{\n type: HttpEventType.Sent;\n}\n\n/**\n * A user-defined event.\n * \n * Grouping all custom events under this
type ensures they will be handled\n * and forwarded by all implementations of interceptors.\n * \n * @publicApi\n
*/\nexport interface HttpUserEvent<T> {\n type: HttpEventType.User;\n}\n\n/**\n * An error that represents a
failed attempt to JSON.parse text coming back\n * from the server.\n * \n * It bundles the Error object with the actual
response body that failed to parse.\n * \n * \n */\nexport interface HttpJsonParseError {\n error: Error;\n text:
string;\n}\n\n/**\n * Union type for all possible events on the response stream.\n * \n * Typed according to the
expected type of the response.\n * \n * @publicApi\n */\nexport type HttpEvent<T> =\n
HttpSentEvent|HttpHeaderResponse|HttpResponse<T>|HttpProgressEvent|HttpUserEvent<T>;\n\n/**\n * Base
class for both
`HttpResponse` and `HttpHeaderResponse`.\n * \n * @publicApi\n */\nexport abstract class HttpResponseBase {\n
/**\n * All response headers.\n */\n readonly headers: HttpHeaders;\n\n /**\n * Response status code.\n */\n
readonly status: number;\n\n /**\n * Textual description of response status code, defaults to OK.\n */\n * Do not
depend on this.\n */\n readonly statusText: string;\n\n /**\n * URL of the resource retrieved, or null if not
available.\n */\n readonly url: string|null;\n\n /**\n * Whether the status code falls in the 2xx range.\n */\n
readonly ok: boolean;\n\n /**\n * Type of the response, narrowed to either the full response or the header.\n */\n
// TODO(issue/24571): remove '!'.\n readonly type!: HttpEventType.Response|HttpEventType.ResponseHeader;\n\n
/**\n * Super-constructor for all responses.\n */\n * The single parameter accepted is an initialization hash. Any
properties\n * of the response passed there will override the
default values.\n */\n constructor(\n init: {\n headers?: HttpHeaders,\n status?: number,\n
statusText?: string,\n url?: string,\n },\n defaultStatus: number = HttpStatusCode.Ok, defaultStatusText:
string = 'OK') {\n // If the hash has values passed, use them to initialize the response.\n // Otherwise use the
default values.\n this.headers = init.headers || new HttpHeaders();\n this.status = init.status !== undefined ?
init.status : defaultStatus;\n this.statusText = init.statusText || defaultStatusText;\n this.url = init.url || null;\n
// Cache the ok value to avoid defining a getter.\n this.ok = this.status >= 200 && this.status < 300;\n
}\n}\n\n/**\n * A partial HTTP response which only includes the status and header data,\n * but no response body.\n
*\n * `HttpHeaderResponse` is a `HttpEvent` available on the response\n * event stream, only when progress events
are requested.\n * \n * @publicApi\n */\nexport
class HttpHeaderResponse extends HttpResponseBase {\n /**\n * Create a new `HttpHeaderResponse` with the
given parameters.\n */\n constructor(init: {\n headers?: HttpHeaders,\n status?: number,\n statusText?:
string,\n url?: string,\n } = {}) {\n super(init);\n }\n\n override readonly type: HttpEventType.ResponseHeader
= HttpEventType.ResponseHeader;\n\n /**\n * Copy this `HttpHeaderResponse`, overriding its contents with

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the\n * given parameter hash.\n */\n clone(update: {headers?: HttpHeaders; status?: number; statusText?: string;
url?: string;} = {}):\n HttpHeadersResponse {\n // Perform a straightforward initialization of the new
HttpHeadersResponse,\n // overriding the current parameters with new ones if given.\n return new
HttpHeadersResponse({\n headers: update.headers || this.headers,\n status: update.status !== undefined ?
update.status : this.status,\n statusText: update.statusText || this.statusText,\n url: update.url
|| this.url || undefined,\n });\n }\n}\n\n/**\n * A full HTTP response, including a typed response body (which may
be `null`\n * if one was not returned).\n */\n * `HttpResponse` is a `HttpEvent` available on the response event\n *
stream.\n */\n * @publicApi\n */\nexport class HttpResponse<T> extends HttpResponseBase {\n /**\n * The
response body, or `null` if one was not returned.\n */\n readonly body: T|null;\n\n /**\n * Construct a new
`HttpResponse`\n */\n constructor(init: {\n body?: T|null,\n headers?: HttpHeaders;\n status?: number;\n
statusText?: string;\n url?: string;\n } = {}) {\n super(init);\n this.body = init.body !== undefined ? init.body :
null;\n }\n\n override readonly type: HttpEventType.Response = HttpEventType.Response;\n\n clone():
HttpResponse<T>;\n clone(update: {headers?: HttpHeaders; status?: number; statusText?: string; url?: string;})\n
HttpResponse<T>;\n clone<V>(update: {\n body?: V|null,\n headers?:
HttpHeaders;\n status?: number;\n statusText?: string;\n url?: string;\n }): HttpResponse<V>;\n
clone(update: {\n body?: any|null;\n headers?: HttpHeaders;\n status?: number;\n statusText?: string;\n
url?: string;\n } = {}): HttpResponse<any> {\n return new HttpResponse<any>({\n body: (update.body !==
undefined) ? update.body : this.body,\n headers: update.headers || this.headers,\n status: (update.status !==
undefined) ? update.status : this.status,\n statusText: update.statusText || this.statusText,\n url: update.url ||
this.url || undefined,\n });\n }\n}\n\n/**\n * A response that represents an error or failure, either from a\n * non-
successful HTTP status, an error while executing the request,\n * or some other failure which occurred during the
parsing of the response.\n */\n * Any error returned on the `Observable` response stream will be\n * wrapped in an
`HttpErrorResponse` to provide additional context about\n * the
state of the HTTP layer when the error occurred. The error property\n * will contain either a wrapped Error object
or the error response returned\n * from the server.\n */\n * @publicApi\n */\nexport class HttpErrorResponse
extends HttpResponseBase implements Error {\n readonly name = 'HttpErrorResponse';\n readonly message:
string;\n readonly error: any|null;\n\n /**\n * Errors are never okay, even when the status code is in the 2xx
success range.\n */\n override readonly ok = false;\n\n constructor(init: {\n error?: any;\n headers?:
HttpHeaders;\n status?: number;\n statusText?: string;\n url?: string;\n }) {\n // Initialize with a default status
of 0 / Unknown Error.\n super(init, 0, 'Unknown Error');\n\n // If the response was successful, then this was a
parse error. Otherwise, it was\n // a protocol-level failure of some sort. Either the request failed in transit\n // or
the server returned an unsuccessful status code.\n if (this.status
>= 200 && this.status < 300) {\n this.message = `Http failure during parsing for ${init.url || '(unknown url)'}`;
\n } else {\n this.message = `Http failure response for ${init.url || '(unknown url)'}: ${init.status} ${
init.statusText}`;\n }\n this.error = init.error || null;\n }\n}\n\n/**\n * Http status codes.\n */\n * As per
https://www.iana.org/assignments/http-status-codes/http-status-codes.xhtml\n */\n * @publicApi\n */\nexport const
enum HttpStatusCode {\n Continue = 100,\n SwitchingProtocols = 101,\n Processing = 102,\n EarlyHints =
103,\n\n Ok = 200,\n Created = 201,\n Accepted = 202,\n NonAuthoritativeInformation = 203,\n NoContent =
204,\n ResetContent = 205,\n PartialContent = 206,\n MultiStatus = 207,\n AlreadyReported = 208,\n ImUsed =
226,\n\n MultipleChoices = 300,\n MovedPermanently = 301,\n Found = 302,\n SeeOther = 303,\n NotModified
= 304,\n UseProxy = 305,\n Unused = 306,\n TemporaryRedirect = 307,\n PermanentRedirect =
308,\n\n BadRequest = 400,\n Unauthorized = 401,\n PaymentRequired = 402,\n Forbidden = 403,\n NotFound
= 404,\n MethodNotAllowed = 405,\n NotAcceptable = 406,\n ProxyAuthenticationRequired = 407,\n
RequestTimeout = 408,\n Conflict = 409,\n Gone = 410,\n LengthRequired = 411,\n PreconditionFailed = 412,\n
PayloadTooLarge = 413,\n UriTooLong = 414,\n UnsupportedMediaType = 415,\n RangeNotSatisfiable = 416,\n
ExpectationFailed = 417,\n ImATeapot = 418,\n MisdirectedRequest = 421,\n UnprocessableEntity = 422,\n
Locked = 423,\n FailedDependency = 424,\n TooEarly = 425,\n UpgradeRequired = 426,\n PreconditionRequired
= 428,\n TooManyRequests = 429,\n RequestHeaderFieldsTooLarge = 431,\n UnavailableForLegalReasons =

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451,\n\n InternalServerError = 500,\n NotImplemented = 501,\n BadGateway = 502,\n ServiceUnavailable =
503,\n GatewayTimeout = 504,\n HttpVersionNotSupported = 505,\n VariantAlsoNegotiates = 506,\n
InsufficientStorage = 507,\n LoopDetected =
508,\n NotExtended = 510,\n NetworkAuthenticationRequired = 511\n}\n"/>**\n * @license\n * Copyright
Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n
* found in the LICENSE file at https://angular.io/license\n *\n\nimport {Injectable} from '@angular/core';\nimport
{Observable, of} from 'rxjs';\nimport {concatMap, filter, map} from 'rxjs/operators';\n\nimport {HttpHandler} from
'./backend';\nimport {HttpContext} from './context';\nimport {HttpHeaders} from './headers';\nimport {HttpParams,
HttpParamsOptions} from './params';\nimport {HttpRequest} from './request';\nimport {HttpEvent, HttpResponse}
from './response';\n\n\n/**\n * Constructs an instance of `HttpRequestOptions<T>` from a source
`HttpMethodOptions` and\n * the given `body`. This function clones the object and adds the body.\n *\n * Note that
the `responseType` *options* value is a String that identifies the\n * single data type of the response.\n * A single
overload version of the method handles each response type.\n * The value of `responseType` cannot be a union, as
the combined signature could imply.\n *\n */\nfunction addBody<T>(\n options: {\n headers?:
HttpHeaders|[{header: string]: string | string[]},\n context?: HttpContext,\n observe?:
'body'|'events'|'response',\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?:
'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n },\n body: T|null): any {\n return {\n body,\n headers: options.headers,\n context: options.context,\n observe: options.observe,\n params: options.params,\n reportProgress: options.reportProgress,\n responseType: options.responseType,\n withCredentials:
options.withCredentials,\n };}\n\n\n/**\n * Performs HTTP requests.\n * This service is available as an injectable
class,
 with methods to perform HTTP requests.\n * Each request method has multiple signatures, and the return type
varies based on\n * the signature that is called (mainly the values of `observe` and `responseType`).\n *\n * Note
that the `responseType` *options* value is a String that identifies the\n * single data type of the response.\n * A
single overload version of the method handles each response type.\n * The value of `responseType` cannot be a
union, as the combined signature could imply.\n *\n * @usageNotes\n * Sample HTTP requests for the [Tour of
Heroes](/tutorial/toh-pt0) application.\n *\n * ### HTTP Request Example\n *\n * ```\n * // GET heroes whose
name contains search term\n * searchHeroes(term: string): observable<Hero[]>{\n *\n * const params = new
HttpParams({fromString: 'name=term'});\n * return this.httpClient.request('GET', this.heroesUrl,
{responseType: 'json', params});\n * }\n * ```\n *\n * Alternatively, the parameter string can be used without
invoking HttpParams\n
* by directly joining to the URL.\n * ```\n * this.httpClient.request('GET', this.heroesUrl + '?' + 'name=term',
{responseType: 'json'});\n * ```\n *\n * ### JSONP Example\n *\n * ```\n * requestJsonp(url, callback = 'callback')
{\n * return this.httpClient.jsonp(this.heroesURL, callback);\n * }\n * ```\n *\n * ### PATCH Example\n *\n * ```\n *
PATCH one of the heroes' name\n * patchHero (id: number, heroName: string): Observable<{}> {\n * const url =
`${this.heroesUrl}/${id}`; // PATCH api/heroes/42\n * return this.httpClient.patch(url, {name: heroName},
httpOptions)\n * .pipe(catchError(this.handleError('patchHero')));\n * }\n * ```\n *\n * @see [HTTP
Guide](guide/http)\n * @see [HTTP Request](api/common/http/HttpRequest)\n *\n * @publicApi\n
*\n\n@Injectable()\nexport class HttpClient {\n constructor(private handler: HttpHandler) {}\n\n /**\n * Sends an
`HttpRequest` and returns a stream of `HttpEvent`s.\n *\n * @return An `Observable` of the response, with the
response body as a stream of `HttpEvent`s.\n */\n request<R>(req: HttpRequest<any>):
Observable<HttpEvent<R>>;\n\n /**\n * Constructs a request that interprets the body as an `ArrayBuffer` and
returns the response in\n * an `ArrayBuffer`.\n *\n * @param method The HTTP method.\n * @param url
The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An
`Observable` of the response, with the response body as an `ArrayBuffer`.\n */\n request(method: string, url:
string, options: {\n body?: any,\n headers?: HttpHeaders|[{header: string]: string | string[]},\n context?:
HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean |

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ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<ArrayBuffer>;\n\n /**\n * Constructs a request that interprets the
body as a
blob and returns\n * the response as a blob.\n *\n * @param method The HTTP method.\n * @param url
The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An
`Observable` of the response, with the response body of type `Blob`.\n */\n request(method: string, url: string,
options: {\n body?: any,\n headers?: HttpHeaders|{[header: string]: string | string[]},\n context?:
HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?:
boolean,\n }): Observable<Blob>;\n\n /**\n * Constructs a request that interprets the body as a text string and\n
* returns a string value.\n *\n * @param method The HTTP method.\n * @param url The endpoint URL.\n *
@param options The HTTP options to send with the request.\n *\n * @return An `Observable`
of the response, with the response body of type string.\n */\n request(method: string, url: string, options: {\n
body?: any,\n headers?: HttpHeaders|{[header: string]: string | string[]},\n context?: HttpContext,\n observe?:
'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?:
boolean,\n }): Observable<string>;\n\n /**\n * Constructs a request that interprets the body as an `ArrayBuffer`
and returns the\n * the full event stream.\n *\n * @param method The HTTP method.\n * @param url The
endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An
`Observable` of the response, with the response body as an array of `HttpEvent`s for\n * the request.\n */\n
request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{[header:
string]: string | string[]},\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]:
string | number | boolean | ReadonlyArray<string|number|boolean>},\n observe: 'events',\n reportProgress?:
boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpEvent<ArrayBuffer>>;\n\n /**\n
* Constructs a request that interprets the body as a `Blob` and returns\n * the full event stream.\n *\n *
@param method The HTTP method.\n * @param url The endpoint URL.\n * @param options The HTTP options to
send with the request.\n *\n * @return An `Observable` of all `HttpEvent`s for the request,\n * with the response
body of type `Blob`.\n */\n request(method: string, url: string, options: {\n body?: any,\n headers?:
HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?:
HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?:
boolean, responseType: 'blob',\n withCredentials?: boolean,\n }):
Observable<HttpEvent<Blob>>;\n\n /**\n * Constructs a request which interprets the body as a text string and
returns the full event\n * stream.\n *\n * @param method The HTTP method.\n * @param url The endpoint
URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of all
`HttpEvent`s for the request,\n * with the response body of type string.\n */\n request(method: string, url:
string, options: {\n body?: any,\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe:
'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number |
boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?:
boolean,\n }): Observable<HttpEvent<string>>;\n\n /**\n * Constructs a
request which interprets the body as a JSON object and returns the full event\n * stream.\n *\n * @param
method The HTTP method.\n * @param url The endpoint URL.\n * @param options The HTTP options to
send with the request.\n *\n * @return An `Observable` of all `HttpEvent`s for the request,\n * with the
response body of type `Object`.\n */\n request(method: string, url: string, options: {\n body?: any,\n headers?:
HttpHeaders|{[header: string]: string | string[]},\n context?: HttpContext,\n reportProgress?: boolean, observe:
'events',\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n responseType?: 'json',\n withCredentials?: boolean,\n }):
Observable<HttpEvent<any>>;\n\n /**\n * Constructs a request which interprets the body as a JSON object and
returns the full event\n * stream.\n *\n * @param method The HTTP method.\n * @param url The endpoint

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URL.\n

\* @param options The HTTP options to send with the request.\n \* \n \* @return An `Observable` of all `HttpEvent`s for the request,\n \* with the response body of type `R`.\n \* \n request<R>(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]\n },\n context?: HttpContext,\n reportProgress?: boolean, observe: 'events',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpEvent<R>>;\n\n /\*\*\n \* Constructs a request which interprets the body as an `ArrayBuffer` and returns the full `HttpResponse`.\n \* \n \* @param method The HTTP method.\n \* @param url The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \* \n \* @return An `Observable` of the `HttpResponse`, with the response body as an `ArrayBuffer`.\n \* \n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]\n },\n observe: 'response',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpResponse<ArrayBuffer>>;\n\n /\*\*\n \* Constructs a request which interprets the body as a `Blob` and returns the full `HttpResponse`.\n \* \n \* @param method The HTTP method.\n \* @param url The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \* \n \* @return An `Observable` of the `HttpResponse`, with the response body of type `Blob`.\n \* \n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]\n },\n observe: 'response',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<HttpResponse<Blob>>;\n\n /\*\*\n \* Constructs a request which interprets the body as a text stream and returns the full\n \* `HttpResponse`.\n \* \n \* @param method The HTTP method.\n \* @param url The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \* \n \* @return An `Observable` of the HTTP response, with the response body of type string.\n \* \n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]\n },\n observe: 'response',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n }): Observable<HttpResponse<string>>;\n\n /\*\*\n \* Constructs a request which interprets the body as a JSON object and returns the full\n \* `HttpResponse`.\n \* \n \* @param method The HTTP method.\n \* @param url The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \* \n \* @return An `Observable` of the full `HttpResponse`,\n \* with the response body of type `Object`.\n \* \n request(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]\n },\n context?: HttpContext,\n reportProgress?: boolean, observe: 'response',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<Object>>;\n\n /\*\*\n \* Constructs a request which interprets the body as a JSON object and returns\n \* the full `HttpResponse` with the response body in the requested type.\n \* \n \* @param method The HTTP method.\n \* @param url The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \* \n \* @return An `Observable` of the full `HttpResponse`, with the response body of type `R`.\n \* \n request<R>(method: string, url: string, options: {\n body?: any,\n headers?: HttpHeaders|{\n header: string: string | string[]\n },\n context?: HttpContext,\n reportProgress?: boolean, observe: 'response',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<R>>;\n\n /\*\*\n \* Constructs a request which interprets the body as a JSON object and returns the full\n \* `HttpResponse` as a JSON object.\n \* \n \* @param method The HTTP method.\n \* @param url The endpoint URL.\n \* @param options The HTTP options to send with the request.\n

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 * \n * @return An `Observable` of the `HttpResponse`, with the response body of type `Object`. \n * \n
request(method: string, url: string, options?: { \n body?: any, \n headers?: HttpHeaders{[header: string]: string |
string[]}, \n context?: HttpContext, \n observe?: 'body', \n params?: HttpParams | \n {[param: string]: string |
number | boolean | ReadonlyArray<string|number|boolean>}, \n responseType?: 'json', \n reportProgress?:
boolean, \n withCredentials?: boolean, \n }): Observable<Object>; \n \n /** \n * Constructs a request which
interprets the body as a JSON object \n * with the response body of the requested type. \n * \n * @param method
The HTTP method. \n * @param url The endpoint URL. \n * @param options The HTTP options to send with
the request. \n * \n * @return An `Observable` of the `HttpResponse`, with the response body of type `R`. \n * \n
request<R>(method: string, url: string, options?: { \n body?: any, \n headers?:
HttpHeaders{[header: string]: string | string[]}, \n context?: HttpContext, \n observe?: 'body', \n params?:
HttpParams | \n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}, \n
responseType?: 'json', \n reportProgress?: boolean, \n withCredentials?: boolean, \n }): Observable<R>; \n \n /** \n
* Constructs a request where response type and requested observable are not known statically. \n * \n * @param
method The HTTP method. \n * @param url The endpoint URL. \n * @param options The HTTP options to
send with the request. \n * \n * @return An `Observable` of the requested response, with body of type `any`. \n
* \n * \n request(method: string, url: string, options?: { \n body?: any, \n headers?: HttpHeaders{[header: string]:
string | string[]}, \n context?: HttpContext, \n params?: HttpParams | \n {[param: string]: string | number |
boolean | ReadonlyArray<string|number|boolean>}, \n observe?: 'body'|'events'|'response', \n
reportProgress?: boolean, \n responseType?: 'arraybuffer'|'blob'|'json'|'text', \n withCredentials?: boolean, \n }):
Observable<any>; \n \n /** \n * Constructs an observable for a generic HTTP request that, when subscribed, \n *
fires the request through the chain of registered interceptors and on to the \n * server. \n * \n * You can pass an
`HttpRequest` directly as the only parameter. In this case, \n * the call returns an observable of the raw `HttpEvent`
stream. \n * \n * Alternatively you can pass an HTTP method as the first parameter, \n * a URL string as the
second, and an options hash containing the request body as the third. \n * See `addBody()`. In this case, the
specified `responseType` and `observe` options determine the \n * type of returned observable. \n * * The
`responseType` value determines how a successful response body is parsed. \n * * If `responseType` is the default
`json`, you can pass a type interface for the resulting \n
* object as a type parameter to the call. \n * \n * The `observe` value determines the return type, according to
what you are interested in \n * observing. \n * * An `observe` value of events returns an observable of the raw
`HttpEvent` stream, including \n * progress events by default. \n * * An `observe` value of response returns an
observable of `HttpResponse<T>`, \n * where the `T` parameter depends on the `responseType` and any optionally
provided type \n * parameter. \n * * An `observe` value of body returns an observable of `<T>` with the same `T`
body type. \n * \n * \n request(first: string|HttpRequest<any>, url?: string, options: { \n body?: any, \n headers?:
HttpHeaders{[header: string]: string | string[]}, \n context?: HttpContext, \n observe?: 'body'|'events'|'response', \n
params?: HttpParams | \n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType?:
'arraybuffer'|'blob'|'json'|'text', \n withCredentials?: boolean, \n } = {}): Observable<any> { \n let req:
HttpRequest<any>; \n // First, check whether the primary argument is an instance of `HttpRequest`. \n if (first
instanceof HttpRequest) { \n // It is. The other arguments must be undefined (per the signatures) and can be \n //
ignored. \n req = first; \n } else { \n // It's a string, so it represents a URL. Construct a request based on it, \n
// and incorporate the remaining arguments (assuming `GET` unless a method is \n // provided. \n \n // Figure
out the headers. \n let headers: HttpHeaders | undefined = undefined; \n if (options.headers instanceof
HttpHeaders) { \n headers = options.headers; \n } else { \n headers = new HttpHeaders(options.headers); \n
} \n \n // Sort out parameters. \n let params: HttpParams | undefined = undefined; \n if (!!options.params) { \n
if (options.params instanceof HttpParams) \n { \n params = options.params; \n } else { \n params = new HttpParams({fromObject: options.params}
as HttpParamsOptions); \n } \n } \n \n // Construct the request. \n req = new HttpRequest(first, url!,
(options.body !== undefined ? options.body : null), { \n headers, \n context: options.context, \n params, \n

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 reportProgress: options.reportProgress,\n // By default, JSON is assumed to be returned for all calls.\n
 responseType: options.responseType || 'json',\n withCredentials: options.withCredentials,\n });\n }\n\n //
Start with an Observable.of() the initial request, and run the handler (which\n // includes all interceptors) inside a
concatMap(). This way, the handler runs\n // inside an Observable chain, which causes interceptors to be re-run on
every\n // subscription (this also makes retries re-run the handler, including interceptors).\n const events$:
Observable<HttpEvent<any>>
 =\n of(req).pipe(concatMap((req: HttpRequest<any>) => this.handler.handle(req))); \n\n // If coming via the
API signature which accepts a previously constructed HttpRequest,\n // the only option is to get the event stream.
Otherwise, return the event stream if\n // that is what was requested.\n if (first instance of HttpRequest ||
options.observe === 'events') {\n return events$;\n }\n\n // The requested stream contains either the full
response or the body. In either\n // case, the first step is to filter the event stream to extract a stream of\n //
responses(s).\n const res$: Observable<HttpResponse<any>> =
<Observable<HttpResponse<any>>>events$.pipe(\n filter((event: HttpEvent<any>) => event instanceof
HttpResponse));\n\n // Decide which stream to return.\n switch (options.observe || 'body') {\n case 'body':\n\n // The requested stream is the body. Map the response stream to the response\n // body. This could
be done more simply, but a misbehaving interceptor might\n // transform the response body into a different
format and ignore the requested\n // responseType. Guard against this by validating that the response is of the\n
// requested type.\n switch (req.responseType) {\n case 'arraybuffer':\n return
res$.pipe(map((res: HttpResponse<any>) => {\n // Validate that the body is an ArrayBuffer.\n if
(res.body !== null && !(res.body instanceof ArrayBuffer)) {\n throw new Error('Response is not an
ArrayBuffer.);\n }\n return res.body;\n }));\n case 'blob':\n return
res$.pipe(map((res: HttpResponse<any>) => {\n // Validate that the body is a Blob.\n if (res.body
!== null && !(res.body instanceof Blob)) {\n throw new Error('Response is not a Blob.);\n }\n
 return res.body;\n }));\n case 'text':\n return res$.pipe(map((res: HttpResponse<any>) => {\n // Validate that the
body is a string.\n if (res.body !== null && typeof res.body !== 'string') {\n throw new
Error('Response is not a string.);\n }\n return res.body;\n }));\n case 'json':\n
default:\n // No validation needed for JSON responses, as they can be of any type.\n return
res$.pipe(map((res: HttpResponse<any>) => res.body));\n }\n case 'response':\n // The response stream
was requested directly, so return it.\n return res$;\n default:\n // Guard against new future observe types
being added.\n throw new Error(`Unreachable: unhandled observe type ${options.observe}`);\n }\n }\n\n
/**\n * Constructs a `DELETE` request that interprets the body as an `ArrayBuffer`\n * and returns the response
as an `ArrayBuffer`\n
*\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n
*\n * @return An `Observable` of the response body as an `ArrayBuffer`.\n */\n delete(url: string, options: {\n
headers?: HttpHeaders|{[header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n
params?: HttpParams\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'arraybuffer',\n
withCredentials?: boolean,\n body?: any|null,\n }): Observable<ArrayBuffer>;\n\n\n /**\n * Constructs a
`DELETE` request that interprets the body as a `Blob` and returns\n * the response as a `Blob`.\n *\n * @param
url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An
`Observable` of the response body as a `Blob`.\n */\n delete(url: string, options: {\n headers?:
HttpHeaders|{[header: string]:
string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams\n {[param:
string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,
responseType: 'blob',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<Blob>;\n\n\n /**\n *
Constructs a `DELETE` request that interprets the body as a text string and returns\n * a string.\n *\n * @param
url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An

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`Observable` of the response, with the response body of type string.\n \* /\n delete(url: string, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[]\n },\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<string>;\n\n /\*\*\n \* Constructs a `DELETE` request that interprets the body as an `ArrayBuffer`\n \* and returns the full event stream.\n \*\n \* @param url The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \*\n \* @return An `Observable` of all `HttpEvent`s for the request,\n \* with response body as an `ArrayBuffer`.\n \*/\n delete(url: string, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[]\n },\n observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n body?: any|null\n }): Observable<HttpEvent<ArrayBuffer>>;\n\n /\*\*\n \* Constructs a `DELETE` request that interprets the body as a `Blob`\n \* and returns the full event stream.\n \*\n \* @param url

The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \*\n \* @return An `Observable` of all the `HttpEvent`s for the request, with the response body as a\n \* `Blob`.\n \*/\n delete(url: string, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[]\n },\n observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpEvent<Blob>>;\n\n /\*\*\n \* Constructs a `DELETE` request that interprets the body as a text string\n \* and returns the full event stream.\n \*\n \* @param url The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \*\n \* @return An `Observable` of all `HttpEvent`s for the request, with the response\n \* body of type string.\n \*/\n delete(url: string, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[]\n },\n observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpEvent<string>>;\n\n /\*\*\n \* Constructs a `DELETE` request that interprets the body as a JSON object\n \* and returns the full event stream.\n \*\n \* @param url The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \*\n \* @return An `Observable` of all `HttpEvent`s for the request, with response body of\n \* type `Object`.\n \*/\n delete(url: string, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[]\n },\n observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n

reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpEvent<Object>>;\n\n /\*\*\n \* Constructs a `DELETE` request that interprets the body as a JSON object\n \* and returns the full event stream.\n \*\n \* @param url The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \*\n \* @return An `Observable` of all the `HttpEvent`s for the request, with a response\n \* body in the requested type.\n \*/\n delete<T>(url: string, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[]\n },\n observe: 'events',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | (string | number | boolean)[]\n },\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n body?: any|null,\n }): Observable<HttpEvent<T>>;\n\n /\*\*\n \* Constructs a `DELETE` request that interprets the body as an `ArrayBuffer` and returns\n \* the full `HttpResponse`.\n \*\n \* @param url

The endpoint URL.\n \* @param options The HTTP options to send with the request.\n \*\n \* @return An `Observable` of the full `HttpResponse`, with the response body as an `ArrayBuffer`.\n \*/\n delete(url: string, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[]\n },\n observe: 'response',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>\n },\n reportProgress?: boolean, responseType: 'arraybuffer',\n



withCredentials?: boolean, \n body?: any|null, \n }): Observable<HttpResponse<ArrayBuffer>>;\n\n /\*\*\n \* Constructs a `DELETE` request that interprets the body as a `Blob` and returns the full\n \* `HttpResponse`. \n \* \n \* @param url The endpoint URL. \n \* @param options The HTTP options to send with the request. \n \* \n \* @return An `Observable` of the `HttpResponse`, with the response body of type `Blob`. \n \*/\n delete(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[]], observe: 'response', \n context?: HttpContext, \n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>} , \n reportProgress?: boolean, responseType: 'blob', \n withCredentials?: boolean, \n body?: any|null, \n }): Observable<HttpResponse<Blob>>;\n\n /\*\*\n \* Constructs a `DELETE` request that interprets the body as a text stream and\n \* returns the full `HttpResponse`. \n \* \n \* @param url The endpoint URL. \n \* @param options The HTTP options to send with the request. \n \* \n \* @return An `Observable` of the full `HttpResponse`, with the response body of type string. \n \*/\n delete(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[]], observe: 'response', \n context?: HttpContext, \n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>} , \n reportProgress?: boolean, responseType: 'text', \n withCredentials?: boolean, \n body?: any|null, \n }): Observable<HttpResponse<string>>;\n\n /\*\*\n \* Constructs a `DELETE` request the interprets the body as a JSON object and returns\n \* the full `HttpResponse`. \n \* \n \* @param url The endpoint URL. \n \* @param options The HTTP options to send with the request. \n \* \n \* @return An `Observable` of the `HttpResponse`, with the response body of type `Object`. \n \*/\n delete(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[]], observe: 'response', \n context?: HttpContext, \n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>} , \n reportProgress?: boolean, \n responseType?: 'json', \n withCredentials?: boolean, \n body?: any|null, \n }): Observable<HttpResponse<Object>>;\n\n /\*\*\n \* Constructs a `DELETE` request that interprets the body as a JSON object\n \* and returns the full `HttpResponse`. \n \* \n \* @param url The endpoint URL. \n \* @param options The HTTP options to send with the request. \n \* \n \* @return An `Observable` of the `HttpResponse`, with the response body of the requested type. \n \*/\n delete<T>(url: string, options: {\n headers?: HttpHeaders|[header: string]: string | string[]], observe: 'response', \n context?: HttpContext, \n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>} , \n reportProgress?: boolean, \n responseType?: 'json', \n withCredentials?: boolean, \n body?: any|null, \n }): Observable<HttpResponse<T>>;\n\n /\*\*\n \* Constructs a `DELETE` request that interprets the body as a JSON object and\n \* returns the response body as a JSON object. \n \* \n \* @param url The endpoint URL. \n \* @param options The HTTP options to send with the request. \n \* \n \* @return An `Observable` of the response, with the response body of type `Object`. \n \*/\n delete(url: string, options?: {\n headers?: HttpHeaders|[header: string]: string | string[]], \n context?: HttpContext, \n observe?: 'body', \n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>} , \n reportProgress?: boolean, \n responseType?: 'json', \n withCredentials?: boolean, \n body?: any|null, \n }): Observable<Object>;\n\n /\*\*\n \* Constructs a DELETE request that interprets the body as a JSON object and\n \* returns\n \* the response in a given type. \n \* \n \* @param url The endpoint URL. \n \* @param options The HTTP options to send with the request. \n \* \n \* @return An `Observable` of the `HttpResponse`, with response body in the requested type. \n \*/\n delete<T>(url: string, options?: {\n headers?: HttpHeaders|[header: string]: string | string[]], \n context?: HttpContext, \n observe?: 'body', \n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>} , \n reportProgress?: boolean, \n responseType?: 'json', \n withCredentials?: boolean, \n body?: any|null, \n }): Observable<T>;\n\n /\*\*\n \* Constructs an observable that, when subscribed, causes the configured\n \* `DELETE` request to execute on the server. See the individual overloads for\n \* details on the return type. \n \* \n \* @param url The endpoint URL. \n \* @param options The HTTP options to send with the request. \n \* \n \* \n \*/\n delete(url: string, options: {\n

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headers?: HttpHeaders|{[header: string]: string | string[]},\n context?: HttpContext,\n observe?:
'body'|'events'|'response',\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n
 responseType?: 'arraybuffer'|"blob"|"json"|"text",\n withCredentials?: boolean,\n body?: any|null,\n } = {}):
Observable<any> {\n return this.request<any>('DELETE', url, options as any);\n } \n\n\n /**\n * Constructs a
`GET` request that interprets the body as an `ArrayBuffer` and returns the\n * response in an `ArrayBuffer`.\n *\n
* @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n *
@return An `Observable` of the response, with the response body as an `ArrayBuffer`.\n */\n get(url: string,
options: {\n headers?: HttpHeaders|{[header: string]: string | string[]},\n context?: HttpContext,\n observe?:
'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'arraybuffer',\n
 withCredentials?: boolean,\n }): Observable<ArrayBuffer>;\n\n\n /**\n * Constructs a `GET` request that
interprets the body as a `Blob` and returns the response as a `Blob`.\n *\n * @param url The endpoint
URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the
response, with the response body as a `Blob`.\n */\n get(url: string, options: {\n headers?: HttpHeaders|{[header:
string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param:
string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,
responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<Blob>;\n\n\n /**\n * Constructs a `GET`
request that interprets the body as a text string and returns the response as a string value.\n *\n * @param url
The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An
`Observable` of the response, with the response body of type string.\n
 */\n get(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]},\n context?:
HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?:
boolean,\n }): Observable<string>;\n\n\n /**\n * Constructs a `GET` request that interprets the body as an
`ArrayBuffer` and returns\n * the full event stream.\n *\n * @param url The endpoint URL.\n * @param
options The HTTP options to send with the request.\n *\n * @return An `Observable` of all `HttpEvent`s for the
request, with the response\n * body as an `ArrayBuffer`.\n */\n get(url: string, options: {\n headers?:
HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?:
HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
 reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }):
Observable<HttpEvent<ArrayBuffer>>;\n\n\n /**\n * Constructs a `GET` request that interprets the body as a
`Blob` and\n * returns the full event stream.\n *\n * @param url The endpoint URL.\n * @param options
The HTTP options to send with the request.\n *\n * @return An `Observable` of the response, with the response
body as a `Blob`.\n */\n get(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]},
observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number |
boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n
 withCredentials?: boolean,\n }): Observable<HttpEvent<Blob>>;\n\n\n /**\n * Constructs a `GET` request that
interprets the body as a text string and returns\n * the full event stream.\n *\n
 * @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n *
@return An `Observable` of the response, with the response body of type string.\n */\n get(url: string, options: {\n
 headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n
 params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
 reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n }):
Observable<HttpEvent<string>>;\n\n\n /**\n * Constructs a `GET` request that interprets the body as a JSON
object\n * and returns the full event stream.\n *\n * @param url The endpoint URL.\n * @param options The
HTTP options to send with the request.\n *\n * @return An `Observable` of the response, with the response body
of type `Object`.\n */\n get(url: string, options: {\n headers?: HttpHeaders|{[header: string]:

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string | string[]}, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]:
string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n
responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpEvent<Object>>;\n\n /**\n *
Constructs a `GET` request that interprets the body as a JSON object and returns the full event\n * stream.\n *\n
* @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n *
@return An `Observable` of the response, with a response body in the requested type.\n */\n get<T>(url: string,
options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?:
HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n
withCredentials?:
boolean,\n }): Observable<HttpEvent<T>>;\n\n /**\n * Constructs a `GET` request that interprets the body as an
`ArrayBuffer` and\n * returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param
options The HTTP options to send with the request.\n *\n * @return An `Observable` of the `HttpResponse` for
the request,\n * with the response body as an `ArrayBuffer`.\n */\n get(url: string, options: {\n headers?:
HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?:
HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }):
Observable<HttpResponse<ArrayBuffer>>;\n\n /**\n * Constructs a `GET` request that interprets the body as a
`Blob` and\n * returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n *\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the
`HttpResponse` for the request,\n * with the response body as a `Blob`.\n */\n get(url: string, options: {\n
headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n
params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?:
boolean,\n }): Observable<HttpResponse<Blob>>;\n\n /**\n * Constructs a `GET` request that interprets the body
as a text stream and\n * returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param
options The HTTP options to send with the request.\n *\n * @return An `Observable` of the `HttpResponse` for
the request,\n * with the response body of type string.\n */\n get(url: string, options: {\n headers?:
HttpHeaders|{[header:
string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param:
string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?:
boolean,\n }): Observable<HttpResponse<string>>;\n\n /**\n * Constructs a `GET` request that interprets the body as a JSON object and\n * returns the full `HttpResponse`.\n *\n
* @param url The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n *
@return An `Observable` of the full `HttpResponse`,\n * with the response body of type `Object`.\n */\n
get(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n
context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?:
'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<Object>>;\n\n /**\n * Constructs a `GET`
request that interprets the body as a JSON object and\n * returns the full `HttpResponse`.\n *\n * @param url
The endpoint URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An
`Observable` of the full `HttpResponse` for the request,\n * with a response body in the requested type.\n */\n
get<T>(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n
context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n
withCredentials?: boolean,\n }): Observable<HttpResponse<T>>;\n\n /**\n * Constructs a `GET` request that
interprets the body as a JSON object and\n * returns the response body as a JSON object.\n

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* \n * @param url The endpoint URL. \n * @param options The HTTP options to send with the request. \n * \n
* \n * @return An `Observable` of the response body as a JSON object. \n * \n get(url: string, options?: { \n
headers?: HttpHeaders|{[header: string]: string | string[]}, \n context?: HttpContext, \n observe?: 'body', \n
params?: HttpParams| \n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType?: 'json', \n
withCredentials?: boolean, \n }): Observable<Object>; \n \n /** \n * Constructs a `GET` request that interprets the
body as a JSON object and returns \n * the response body in a given type. \n * \n * @param url The endpoint
URL. \n * @param options The HTTP options to send with the request. \n * \n * @return An `Observable` of the
`HttpResponse`, with a response body in the requested type. \n * \n get<T>(url: string, options?: { \n headers?:
HttpHeaders|{[header:
string]: string | string[]}, \n context?: HttpContext, \n observe?: 'body', \n params?: HttpParams| \n
 {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}, \n reportProgress?:
boolean, \n responseType?: 'json', \n withCredentials?: boolean, \n }): Observable<T>; \n \n /** \n * Constructs an
observable that, when subscribed, causes the configured \n * `GET` request to execute on the server. See the
individual overloads for \n * details on the return type. \n * \n get(url: string, options: { \n headers?:
HttpHeaders|{[header: string]: string | string[]}, \n context?: HttpContext, \n observe?: 'body'|'events'|'response', \n
params?: HttpParams| \n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType?:
'arraybuffer'|'blob'|'json'|'text', \n withCredentials?: boolean, \n } = {}): Observable<any> { \n return
this.request<any>('GET',
url, options as any); \n } \n \n \n /** \n * Constructs a `HEAD` request that interprets the body as an `ArrayBuffer`
and \n * returns the response as an `ArrayBuffer`. \n * \n * @param url The endpoint URL. \n * @param
options The HTTP options to send with the request. \n * \n * @return An `Observable` of the response, with the
response body as an `ArrayBuffer`. \n * \n head(url: string, options: { \n headers?: HttpHeaders|{[header: string]:
string | string[]}, \n context?: HttpContext, \n observe?: 'body', \n params?: HttpParams| \n {[param: string]:
string | number | boolean | ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType:
'arraybuffer', \n withCredentials?: boolean, \n }): Observable<ArrayBuffer>; \n \n /** \n * Constructs a `HEAD`
request that interprets the body as a `Blob` and returns \n * the response as a `Blob`. \n * \n * @param url The
endpoint URL. \n * @param options The HTTP options to send with
the request. \n * \n * @return An `Observable` of the response, with the response body as a `Blob`. \n * \n \n
head(url: string, options: { \n headers?: HttpHeaders|{[header: string]: string | string[]}, \n context?:
HttpContext, \n observe?: 'body', \n params?: HttpParams| \n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType: 'blob', \n withCredentials?:
boolean, \n }): Observable<Blob>; \n \n /** \n * Constructs a `HEAD` request that interprets the body as a text
string and returns the response \n * as a string value. \n * \n * @param url The endpoint URL. \n * @param
options The HTTP options to send with the request. \n * \n * @return An `Observable` of the response, with the
response body of type string. \n * \n head(url: string, options: { \n headers?: HttpHeaders|{[header: string]: string |
string[]}, \n context?: HttpContext, \n observe?: 'body', \n params?:
HttpParams| \n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>}, \n
reportProgress?: boolean, \n responseType: 'text', \n withCredentials?: boolean, \n }): Observable<string>; \n \n
/** \n * Constructs a `HEAD` request that interprets the body as an `ArrayBuffer` \n * and returns the full event
stream. \n * \n * @param url The endpoint URL. \n * @param options The HTTP options to send with the
request. \n * \n * @return An `Observable` of all `HttpEvent`s for the request, \n * with the response body as an
`ArrayBuffer`. \n * \n head(url: string, options: { \n headers?: HttpHeaders|{[header: string]: string | string[]},
observe: 'events', \n context?: HttpContext, \n params?: HttpParams| \n {[param: string]: string | number |
boolean | ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType: 'arraybuffer', \n
withCredentials?: boolean, \n }): Observable<HttpEvent<ArrayBuffer>>; \n \n /** \n

```

```

 * Constructs a `HEAD` request that interprets the body as a `Blob` and
 * returns the full event stream.
 * @param url The endpoint URL.
 * @param options The HTTP options to send with the request.
 * @return An `Observable` of all `HttpEvent`s for the request,
 * with the response body as a `Blob`.
 head(url: string, options: {
 headers?: HttpHeaders | { [header: string]: string | string[] },
 observe: 'events',
 context?: HttpContext,
 params?: HttpParams | { [param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean> },
 reportProgress?: boolean,
 responseType: 'blob',
 withCredentials?: boolean,
 }): Observable<HttpEvent<Blob>>;

 /**
 * Constructs a `HEAD` request that interprets the body
 as a text string
 * and returns the full event stream.
 * @param url The endpoint URL.
 * @param options The HTTP options to send with the request.
 * @return An `Observable`
 of all `HttpEvent`s for the request, with the response body of type
 * string.
 */
 head(url: string, options: {
 headers?: HttpHeaders | { [header: string]: string | string[] },
 observe: 'events',
 context?: HttpContext,
 params?: HttpParams | { [param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean> },
 reportProgress?: boolean,
 responseType: 'text',
 withCredentials?: boolean,
 }): Observable<HttpEvent<string>>;

 /**
 * Constructs a `HEAD` request that interprets the body as a JSON
 object
 * and returns the full HTTP event stream.
 * @param url The endpoint URL.
 * @param options The HTTP options to send with the request.
 * @return An `Observable` of all `HttpEvent`s for the
 request, with a response body of
 * type `Object`.
 */
 head(url: string, options: {
 headers?: HttpHeaders | { [header: string]: string | string[] },
 observe: 'events',
 context?: HttpContext,
 params?: HttpParams | { [param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean> },
 reportProgress?: boolean,
 responseType: 'json',
 withCredentials?: boolean,
 }): Observable<HttpEvent<Object>>;

 /**
 * Constructs a `HEAD` request that interprets the body as a JSON
 object and
 * returns the full event stream.
 * @return An `Observable` of all the `HttpEvent`s for the
 request,
 * with a response body in the requested type.
 * @param url The endpoint URL.
 * @param options The HTTP options to send with the request.
 */
 head<T>(url: string, options: {
 headers?: HttpHeaders | { [header: string]: string | string[] },
 observe: 'events',
 context?: HttpContext,
 params?: HttpParams | { [param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean> },
 reportProgress?: boolean,
 responseType: 'json',
 withCredentials?: boolean,
 }): Observable<HttpEvent<T>>;

 /**
 * Constructs a `HEAD` request that interprets the body as an `ArrayBuffer`
 * and returns the full HTTP
 response.
 * @param url The endpoint URL.
 * @param options The HTTP options to send with the
 request.
 * @return An `Observable` of the `HttpResponse` for the request,
 * with the response body as
 an `ArrayBuffer`.
 */
 head(url: string, options: {
 headers?: HttpHeaders | { [header: string]: string | string[] },
 observe: 'response',
 context?: HttpContext,
 params?: HttpParams | { [param: string]: string | number |
 boolean | ReadonlyArray<string|number|boolean> },
 reportProgress?: boolean,
 responseType: 'arraybuffer',
 withCredentials?: boolean,
 }): Observable<HttpResponse<ArrayBuffer>>;

 /**
 * Constructs a `HEAD`
 request that interprets the body as a `Blob` and returns
 * the full `HttpResponse`.
 * @param url The
 endpoint URL.
 * @param options The HTTP options to send
 with the request.
 * @return An `Observable` of the `HttpResponse` for the request,
 * with the response
 body as a blob.
 */
 head(url: string, options: {
 headers?: HttpHeaders | { [header: string]: string | string[] },
 observe: 'response',
 context?: HttpContext,
 params?: HttpParams | { [param: string]: string | number |
 boolean | ReadonlyArray<string|number|boolean> },
 reportProgress?: boolean,
 responseType: 'blob',
 withCredentials?: boolean,
 }): Observable<HttpResponse<Blob>>;

 /**
 * Constructs a `HEAD` request
 that interprets the body as text stream
 * and returns the full `HttpResponse`.
 * @param url The
 endpoint URL.
 * @param options The HTTP options to send with the request.
 * @return An
 `Observable` of the `HttpResponse` for the request,
 * with the response body of type string.
 */
 head(url:
 string, options: {
 headers?: HttpHeaders | { [header: string]: string | string[] },
 observe:
 'response',
 context?: HttpContext,
 params?: HttpParams | { [param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean> },
 reportProgress?: boolean,
 responseType: 'text',
 withCredentials?:

```

```

boolean, \n }): Observable<HttpResponse<string>>;\n\n /**\n * Constructs a `HEAD` request that interprets the
body as a JSON object and\n * returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n *
@param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the
`HttpResponse` for the request,\n * with the response body of type `Object`.\n */\n head(url: string, options: {\n
headers?: HttpHeaders|{\n header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n
params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n
withCredentials?:
boolean,\n }): Observable<HttpResponse<Object>>;\n\n /**\n * Constructs a `HEAD` request that interprets the
body as a JSON object\n * and returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n *
@param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the
`HttpResponse` for the request,\n * with a response body of the requested type.\n */\n head<T>(url: string,
options: {\n headers?: HttpHeaders|{\n header: string]: string | string[]}, observe: 'response',\n context?:
HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n
withCredentials?: boolean,\n }): Observable<HttpResponse<T>>;\n\n /**\n * Constructs a `HEAD` request that
interprets the body as a JSON object and\n * returns the response body as a JSON object.\n *\n * @param url
The endpoint
URL.\n * @param options The HTTP options to send with the request.\n *\n * @return An `Observable` of the
response, with the response body as a JSON object.\n */\n head(url: string, options?: {\n headers?:
HttpHeaders|{\n header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?:
HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<Object>;\n\n
/**\n * Constructs a `HEAD` request that interprets the body as a JSON object and returns\n * the response in a
given type.\n *\n * @param url The endpoint URL.\n * @param options The HTTP options to send with the
request.\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with a response body of the
given type.\n */\n head<T>(url: string, options?: {\n headers?: HttpHeaders|{\n header:
string]: string | string[]},\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n
 {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?:
boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<T>;\n\n /**\n * Constructs an
observable that, when subscribed, causes the configured\n * `HEAD` request to execute on the server. The `HEAD`
method returns\n * meta information about the resource without transferring the\n * resource itself. See the
individual overloads for\n * details on the return type.\n */\n head(url: string, options: {\n headers?:
HttpHeaders|{\n header: string]: string | string[]},\n context?: HttpContext,\n observe?: 'body'|'events'|'response',\n
params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?:
'arraybuffer'|'blob'|'json'|'text',\n
withCredentials?: boolean,\n } = {}): Observable<any> {\n return this.request<any>('HEAD', url, options as
any);\n }\n\n /**\n * Constructs a `JSONP` request for the given URL and name of the callback parameter.\n *\n
* @param url The resource URL.\n * @param callbackParam The callback function name.\n *\n * @return An
`Observable` of the response object, with response body as an object.\n */\n jsonp(url: string, callbackParam:
string): Observable<Object>;\n\n /**\n * Constructs a `JSONP` request for the given URL and name of the
callback parameter.\n *\n * @param url The resource URL.\n * @param callbackParam The callback function
name.\n *\n * You must install a suitable interceptor, such as one provided by `HttpClientJsonpModule`.\n * If
no such interceptor is reached,\n * then the `JSONP` request can be rejected by the configured backend.\n *\n *
@return An `Observable` of the response object, with response body
in the requested type.\n */\n jsonp<T>(url: string, callbackParam: string): Observable<T>;\n\n /**\n *
Constructs an `Observable` that, when subscribed, causes a request with the special method\n * `JSONP` to be

```

dispatched via the interceptor pipeline.

- \* The [JSONP pattern](https://en.wikipedia.org/wiki/JSONP) works around limitations of certain
- \* API endpoints that don't support newer,
- \* and preferable [CORS](https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS) protocol.
- \* JSONP treats the endpoint API as a JavaScript file and tricks the browser to process the
- \* requests even if the API endpoint is not located on the same domain (origin) as the client-side
- \* application making the request.
- \* The endpoint API must support JSONP callback for JSONP requests to work.
- \* The resource API returns the JSON response wrapped in a callback function.
- \* You can pass the callback function name as one of the query parameters.
- \* Note that JSONP requests

can only be used with `GET` requests.

- \* @param url The resource URL.
- \* @param callbackParam The callback function name.

```

 * ^
 jsonp<T>(url: string, callbackParam: string): Observable<T> {
 return
 this.request<any>('JSONP', url, {
 params: new HttpParams().append(callbackParam, 'JSONP_CALLBACK'),
 observe: 'body',
 responseType: 'json',
 });
 }
 /**
 * Constructs an `OPTIONS` request that interprets the body as an
 * `ArrayBuffer` and returns the response as an `ArrayBuffer`.
 * @param url The endpoint URL.
 * @param options HTTP options.
 * @return An `Observable` of the response, with the response body as an `ArrayBuffer`.
 */
 options(url: string, options: {
 headers?: HttpHeaders | {
 [header: string]: string | string[];
 },
 context?: HttpContext,
 observe?: 'body',
 params?: HttpParams | {
 [param: string]: string | number | boolean | ReadonlyArray<string | number | boolean>;
 },
 reportProgress?: boolean,
 responseType: 'arraybuffer',
 withCredentials?: boolean;
 }): Observable<ArrayBuffer>;

```

```

 /**
 * Constructs an `OPTIONS` request that interprets the body as a `Blob` and returns
 * the response as a `Blob`.
 * @param url The endpoint URL.
 * @param options HTTP options.
 * @return An `Observable` of the response, with the response body as a `Blob`.
 */
 options(url: string, options: {
 headers?: HttpHeaders | {
 [header: string]: string | string[];
 },
 context?: HttpContext,
 observe?: 'body',
 params?: HttpParams | {
 [param: string]: string | number | boolean |
 ReadonlyArray<string | number | boolean>;
 },
 reportProgress?: boolean,
 responseType: 'blob',
 withCredentials?: boolean;
 }): Observable<Blob>;
 /**
 * Constructs an `OPTIONS` request that interprets the body as a text string and
 * returns a string value.
 * @param url The endpoint URL.
 * @param options HTTP options.

```

```

 * @return An `Observable` of the response, with the response body of type string.
 */
 options(url: string, options: {
 headers?: HttpHeaders | {
 [header: string]: string | string[];
 },
 context?: HttpContext,
 observe?: 'body',
 params?: HttpParams | {
 [param: string]: string | number | boolean |
 ReadonlyArray<string | number | boolean>;
 },
 reportProgress?: boolean,
 responseType: 'text',
 withCredentials?: boolean;
 }): Observable<string>;
 /**
 * Constructs an `OPTIONS` request that interprets the body as an
 `ArrayBuffer`
 * and returns the full event stream.
 * @param url The endpoint URL.
 * @param options HTTP options.
 * @return An `Observable` of all `HttpEvent`s for the request,
 * with the response body as an `ArrayBuffer`.
 */
 options(url: string, options: {
 headers?: HttpHeaders | {
 [header: string]: string | string[];
 },
 observe: 'events',
 context?: HttpContext,
 params?: HttpParams | {
 [param: string]: string | number | boolean |
 ReadonlyArray<string | number | boolean>;
 },
 reportProgress?: boolean,
 responseType: 'arraybuffer',
 withCredentials?: boolean;
 }):

```

```

Observable<HttpEvent<ArrayBuffer>>;
 /**
 * Constructs an `OPTIONS` request that interprets the body as a
 `Blob` and
 * returns the full event stream.
 * @param url The endpoint URL.
 * @param options HTTP options.
 * @return An `Observable` of all `HttpEvent`s for the request,
 * with the response body as a `Blob`.
 */
 options(url: string, options: {
 headers?: HttpHeaders | {
 [header: string]: string | string[];
 },
 observe: 'events',
 context?: HttpContext,
 params?: HttpParams | {
 [param: string]: string | number |
 boolean | ReadonlyArray<string | number | boolean>;
 },
 reportProgress?: boolean,
 responseType: 'blob',
 withCredentials?: boolean;
 }): Observable<HttpEvent<Blob>>;
 /**
 * Constructs an `OPTIONS` request that

```

```

 interprets the body as a text string
 * and returns the full event stream.
 * @param url The endpoint URL.
 * @param options HTTP options.
 * @return An `Observable` of all the `HttpEvent`s for the

```

```

request,\n * with the response body of type string.\n */\n options(url: string, options: {\n headers?:
HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?:
HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n }):
Observable<HttpEvent<string>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as a JSON
object\n * and returns the full event stream.\n *\n * @param url The endpoint URL.\n * @param options HTTP
options.\n *\n * @return An `Observable` of all the `HttpEvent`s for the request with the response\n * body of
type `Object`.\n
*/\n options(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe:
'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpEvent<Object>>;\n\n /**\n * Constructs an `OPTIONS` request
that interprets the body as a JSON object and\n * returns the full event stream.\n *\n * @param url The endpoint
URL.\n * @param options HTTP options.\n *\n * @return An `Observable` of all the `HttpEvent`s for the
request,\n * with a response body in the requested type.\n */\n options<T>(url: string, options: {\n headers?:
HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?:
HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }):
Observable<HttpEvent<T>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as an
`ArrayBuffer`\n * and returns the full HTTP response.\n *\n * @param url The endpoint URL.\n * @param
options HTTP options.\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with the
response body as an `ArrayBuffer`.\n */\n options(url: string, options: {\n headers?: HttpHeaders|{[header:
string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param:
string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean,\n responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpResponse<ArrayBuffer>>;\n\n
/**\n * Constructs an `OPTIONS` request that interprets the body as a `Blob`\n * and
returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param options HTTP options.\n
*\n * @return An `Observable` of the `HttpResponse` for the request,\n * with the response body as a `Blob`.\n
*/\n options(url: string, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe:
'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean, responseType: 'blob',\n withCredentials?:
boolean,\n }): Observable<HttpResponse<Blob>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets
the body as text stream\n * and returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n *
@param options HTTP options.\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with
the response body of type string.\n */\n options(url: string, options: {\n
headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n
params?: HttpParams|\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean, responseType: 'text',\n withCredentials?:
boolean,\n }): Observable<HttpResponse<string>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets
the body as a JSON object\n * and returns the full `HttpResponse`.\n *\n * @param url The endpoint URL.\n *
@param options HTTP options.\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with
the response body of type `Object`.\n */\n options(url: string, options: {\n headers?: HttpHeaders|{[header:
string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param:
string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean,\n
responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<Object>>;\n\n /**\n *
Constructs an `OPTIONS` request that interprets the body as a JSON object and\n * returns the full
`HttpResponse`.\n *\n * @param url The endpoint URL.\n * @param options HTTP options.\n *\n * @return
An `Observable` of the `HttpResponse` for the request,\n * with a response body in the requested type.\n */

```



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options<T>(url: string, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[],\n observe: 'response',\n context?: HttpContext,\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<T>>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as a JSON object and returns the\n * response body as a JSON object.\n * @param url The endpoint URL.\n * @param options HTTP options.\n * @return An `Observable` of the response, with the response body as a JSON object.\n */\n options(url: string, options?: {\n headers?: HttpHeaders|{\n [header: string]: string | string[],\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<Object>;\n\n /**\n * Constructs an `OPTIONS` request that interprets the body as a JSON object and returns the\n * response in a given type.\n * @param url The endpoint URL.\n * @param options HTTP options.\n * @return An `Observable` of the `HttpResponse`, with a response body of the given type.\n */\n options<T>(url: string, options?: {\n headers?: HttpHeaders|{\n [header: string]: string | string[],\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<T>;\n\n /**\n * Constructs an `Observable` that, when subscribed, causes the configured\n * `OPTIONS` request to execute on the server. This method allows the client\n * to determine the supported HTTP methods and other capabilities of an endpoint,\n * without implying a resource action. See the individual overloads for\n * details on the return type.\n */\n options(url: string, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[],\n context?: HttpContext,\n observe?: 'body'|'events'|'response',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n reportProgress?: boolean,\n responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n } = {}): Observable<any> {\n return this.request<any>('OPTIONS', url, options as any);\n }\n\n /**\n * Constructs a `PATCH` request that interprets the body as an `ArrayBuffer` and returns\n * the response as an `ArrayBuffer`.\n * @param url The endpoint URL.\n * @param body The resources to edit.\n * @param options HTTP options.\n * @return An `Observable` of the response, with the response body as an `ArrayBuffer`.\n */\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[],\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n reportProgress?: boolean,\n responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<ArrayBuffer>;\n\n /**\n * Constructs a `PATCH` request that interprets the body as a `Blob` and returns the response\n * as a `Blob`.\n * @param url The endpoint URL.\n * @param body The resources to edit.\n * @param options HTTP options.\n * @return An `Observable` of the response, with the response body as a `Blob`.\n */\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[],\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n reportProgress?: boolean,\n responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<Blob>;\n\n /**\n * Constructs a `PATCH` request that interprets the body as a text string and\n * returns the response as a string value.\n * @param url The endpoint URL.\n * @param body The resources to edit.\n * @param options HTTP options.\n * @return An `Observable` of the response, with a response body of type string.\n */\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n [header: string]: string | string[],\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|{\n [param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>,\n reportProgress?: boolean,\n responseType: 'text',\n withCredentials?: boolean,\n }): Observable<string>;\n\n /**\n * Constructs a `PATCH` request that interprets the body as an `ArrayBuffer` and\n * returns the full event stream.\n * @param url The endpoint URL.\n * @param body The resources to edit.\n * @param options HTTP options.\n * @return An `Observable` of all

```

the `HttpEvent`s for the request,\n \* with the response body as an `ArrayBuffer`.\n \*/\n\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpEvent<ArrayBuffer>>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the body as a `Blob`\n \* and returns the full event stream.\n \*\n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \*\n \* @return An `Observable` of all the `HttpEvent`s for the request, with the\n \* response body as `Blob`.\n \*/\n\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<HttpEvent<Blob>>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the body as a text string and\n \* returns the full event stream.\n \*\n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \*\n \* @return An `Observable` of all the `HttpEvent`s for the request, with a\n \* response body of type string.\n \*/\n\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n }): Observable<HttpEvent<string>>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the body as a JSON object\n \* and returns the full event stream.\n \*\n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \*\n \* @return An `Observable` of all the `HttpEvent`s for the request,\n \* with a response body of type `Object`.\n \*/\n\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'json',\n withCredentials?: boolean,\n }): Observable<HttpEvent<Object>>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the body as a JSON object\n \* and returns the full event stream.\n \*\n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \*\n \* @return An `Observable` of all the `HttpEvent`s for the request,\n \* with a response body in the requested type.\n \*/\n\n patch<T>(url: string, body: any|null, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'json',\n withCredentials?: boolean,\n }): Observable<HttpEvent<T>>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the body as an `ArrayBuffer`\n \* and returns the full `HttpResponse`.\n \*\n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \*\n \* @return An `Observable` of the `HttpResponse` for the request,\n \* with the response body as an `ArrayBuffer`.\n \*/\n\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpResponse<ArrayBuffer>>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the body as a `Blob` and returns the full\n \* `HttpResponse`.\n \*\n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \*\n \* @return An `Observable` of the `HttpResponse` for the request,\n \* with the response body as a `Blob`.\n \*/\n\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?: boolean,\n }): Observable<HttpResponse<Blob>>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the

body as a text stream and

returns the\n \* full `HttpResponse`\n \* \n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \* \n \* @return An `Observable` of the `HttpResponse` for the request,\n \* with a response body of type string.\n \*/\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n }, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?: boolean,\n }):

Observable<HttpResponse<string>>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the body as a JSON object\n \* and returns the full `HttpResponse`\n \* \n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \* \n \* @return An `Observable` of the `HttpResponse`

for the request,\n \* with a response body in the requested type.\n \*/\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n }, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<Object>>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the body as a JSON object\n \* and returns the full `HttpResponse`\n \* \n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \* \n \* @return An `Observable` of the `HttpResponse` for the request,\n \* with a response body in the given type.\n \*/\n patch<T>(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n }, observe: 'response',\n

context?: HttpContext,\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<T>>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the body as a JSON object and\n \* returns the response body as a JSON object.\n \* \n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \* \n \* @return An `Observable` of the response, with the response body as a JSON object.\n \*/\n patch(url: string, body: any|null, options?: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n },\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?:

boolean,\n }): Observable<Object>;\n\n /\*\*\n \* Constructs a `PATCH` request that interprets the body as a JSON object\n \* and returns the response in a given type.\n \* \n \* @param url The endpoint URL.\n \* @param body The resources to edit.\n \* @param options HTTP options.\n \* \n \* @return An `Observable` of the `HttpResponse` for the request,\n \* with a response body in the given type.\n \*/\n patch<T>(url: string, body: any|null, options?: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n },\n context?: HttpContext,\n observe?: 'body',\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }): Observable<T>;\n\n /\*\*\n \* Constructs an observable that, when subscribed, causes the configured\n \* `PATCH` request to execute on the server. See the individual overloads for\n

\* details on the return type.\n \*/\n patch(url: string, body: any|null, options: {\n headers?: HttpHeaders|{\n header: string: string | string[]\n },\n context?: HttpContext,\n observe?: 'body'|'events'|'response',\n params?: HttpParams|\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n } = {}): Observable<any> {\n return this.request<any>('PATCH', url, addBody(options, body));\n }\n\n /\*\*\n \* Constructs a `POST` request that interprets the body as an `ArrayBuffer` and returns\n \* an `ArrayBuffer`\n \* \n \* @param url The endpoint URL.\n \* @param body The content to replace with.\n \* @param options HTTP options.\n \* \n \* @return An

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`Observable` of the response, with the response body as an `ArrayBuffer`.
 */
 post(url: string, body: any|null,
 options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 context?: HttpContext,
 observe?: 'body',
 params?: HttpParams|{[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType: 'arraybuffer',
 withCredentials?: boolean,
 }): Observable<ArrayBuffer>;
 */
 /**
 * Constructs a `POST` request that interprets the body as a `Blob` and returns the
 * response as a `Blob`.
 *
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options
 *
 * @return An `Observable` of the response, with the response body as a `Blob`.
 */
 post(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 context?: HttpContext,
 observe?: 'body',
 params?: HttpParams|{[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType: 'blob',
 withCredentials?: boolean,
 }): Observable<Blob>;
 */
 /**
 * Constructs a `POST` request that interprets the body as a text string and
 * returns the response as a string value.
 *
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options
 *
 * @return An `Observable` of the response, with a response body of type string.
 */
 post(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 context?: HttpContext,
 observe?: 'body',
 params?: HttpParams|{[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType: 'text',
 withCredentials?: boolean,
 }): Observable<string>;
 */
 /**
 * Constructs a `POST` request that interprets the body as an
 * `ArrayBuffer` and
 * returns the full event stream.
 *
 * @param url The endpoint URL.
 *
 * @param body The content to replace with.
 * @param options HTTP options
 *
 * @return An `Observable` of all `HttpEvent`s for the request,
 * with the response body as an `ArrayBuffer`.
 */
 post(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 observe: 'events',
 context?: HttpContext,
 params?: HttpParams|{[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType: 'arraybuffer',
 withCredentials?: boolean,
 }): Observable<HttpEvent<ArrayBuffer>>;
 */
 /**
 * Constructs a `POST` request that interprets the body as a `Blob`
 * and returns the response in an observable of the full event stream.
 *
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options
 *
 * @return An `Observable` of all `HttpEvent`s for the request,
 * with the response body as `Blob`.
 */
 post(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 observe: 'events',
 context?: HttpContext,
 params?: HttpParams|{[param: string]: string | number |
 boolean | ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType: 'blob',
 withCredentials?: boolean,
 }): Observable<HttpEvent<Blob>>;
 */
 /**
 * Constructs a `POST` request that interprets the body as a text string and
 * returns the full
 * event stream.
 *
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options
 *
 * @return An `Observable` of all `HttpEvent`s for the request,
 * with a response body of type string.
 */
 post(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 observe: 'events',
 context?: HttpContext,
 params?: HttpParams|{[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType?: 'json',
 withCredentials?: boolean,
 }): Observable<HttpEvent<Object>>;
 */
 /**
 * Constructs

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a POST request that interprets the body as a JSON object and returns the full event

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 * stream.
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options
 * @return An `Observable` of all `HttpEvent`s for the request,
 * with a response body in the requested type.
 */
 post<T>(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 observe: 'events',
 context?: HttpContext,
 params?: HttpParams|{[param: string]: string | number |
 boolean | ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType?: 'json',
 withCredentials?: boolean,
 }): Observable<HttpEvent<T>>;
 }

 /**
 * Constructs a POST request that interprets the body as an `ArrayBuffer`
 * and returns the full `HttpResponse`.
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options
 * @return An `Observable` of the `HttpResponse` for the request, with the response body as
 * an `ArrayBuffer`.
 */
 post(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 observe: 'response',
 context?: HttpContext,
 params?: HttpParams|{[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType: 'arraybuffer',
 withCredentials?: boolean,
 }): Observable<HttpResponse<ArrayBuffer>>;
}

/**
 * Constructs a `POST` request that interprets the body as a `Blob` and returns the full
 * `HttpResponse`.
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options
 * @return An `Observable` of the `HttpResponse` for the request,
 * with the response body as a `Blob`.
 */
post(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 observe: 'response',
 context?: HttpContext,
 params?: HttpParams|{[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType: 'blob',
 withCredentials?: boolean,
}): Observable<HttpResponse<Blob>>;
}

/**
 * Constructs a `POST` request that interprets the body as a text
 * stream and returns
 * the full `HttpResponse`.
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options
 * @return An `Observable` of the
 * `HttpResponse` for the request,
 * with a response body of type string.
 */
post(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 observe: 'response',
 context?: HttpContext,
 params?: HttpParams|{[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType: 'text',
 withCredentials?: boolean,
}): Observable<HttpResponse<string>>;
}

/**
 * Constructs a `POST` request that interprets the body as a JSON
 * object
 * and returns the full `HttpResponse`.
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options
 * @return An `Observable` of the
 * `HttpResponse` for the request, with a response body of type
 * `Object`.
 */
post(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 observe: 'response',
 context?: HttpContext,
 params?: HttpParams|{[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType?: 'json',
 withCredentials?: boolean,
}): Observable<HttpResponse<Object>>;
}

/**
 * Constructs a `POST` request that interprets the body
 * as a JSON object and returns the full
 * `HttpResponse`.
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options
 * @return An `Observable` of the
 * `HttpResponse` for the request, with a response body in the
 * requested type.
 */
post<T>(url: string, body: any|null, options: {
 headers?: HttpHeaders|{[header: string]: string | string[]},
 observe: 'response',
 context?: HttpContext,
 params?: HttpParams|{[param: string]: string | number | boolean |
 ReadonlyArray<string|number|boolean>},
 reportProgress?: boolean,
 responseType?: 'json',
 withCredentials?: boolean,
}): Observable<HttpResponse<T>>;
}

/**
 * Constructs a `POST` request that interprets the body as a
 * JSON object and returns the response body as a JSON object.
 * @param url The endpoint URL.
 * @param body The content to replace with.
 * @param options HTTP options

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* \n * @return An `Observable` of the response, with the response body as a JSON object. \n * \n post(url: string,
body: any|null, options?: { \n headers?: HttpHeaders|{[header: string]: string | string[]}, \n context?:
HttpContext, \n observe?: 'body', \n params?: HttpParams| \n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType?: 'json', \n
withCredentials?: boolean, \n }): Observable<Object>; \n \n /** \n * Constructs a `POST` request that interprets the
body as a JSON object \n * and returns an observable of the response. \n * \n * @param url The endpoint URL. \n
* @param body The content to replace with. \n * @param options HTTP options \n * \n * @return An
`Observable` of the `HttpResponse` for the request, with a response body in the \n * requested type. \n * \n
post<T>(url: string, body: any|null, options?: { \n headers?: HttpHeaders|{[header: string]: string |
string[]}, \n context?: HttpContext, \n observe?: 'body', \n params?: HttpParams| \n {[param: string]: string
| number | boolean | ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType?:
'json', \n withCredentials?: boolean, \n }): Observable<T>; \n \n /** \n * Constructs an observable that, when
subscribed, causes the configured \n * `POST` request to execute on the server. The server responds with the
location of \n * the replaced resource. See the individual overloads for \n * details on the return type. \n * \n
post(url: string, body: any|null, options: { \n headers?: HttpHeaders|{[header: string]: string | string[]}, \n
context?: HttpContext, \n observe?: 'body'|'events'|'response', \n params?: HttpParams| \n {[param: string]:
string | number | boolean | ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n
responseType?: 'arraybuffer'|'blob'|'json'|'text', \n withCredentials?: boolean, \n
} = {}): Observable<any> { \n return this.request<any>('POST', url, addBody(options, body)); \n } \n \n /** \n *
Constructs a `PUT` request that interprets the body as an `ArrayBuffer` and returns the \n * response as an
`ArrayBuffer`. \n * \n * @param url The endpoint URL. \n * @param body The resources to add/update. \n *
@param options HTTP options \n * \n * @return An `Observable` of the response, with the response body as an
`ArrayBuffer`. \n * \n put(url: string, body: any|null, options: { \n headers?: HttpHeaders|{[header: string]: string |
string[]}, \n context?: HttpContext, \n observe?: 'body', \n params?: HttpParams| \n {[param: string]: string |
number | boolean | ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType:
'arraybuffer', \n withCredentials?: boolean, \n }): Observable<ArrayBuffer>; \n \n /** \n * Constructs a `PUT`
request that interprets the body as a `Blob` and returns \n * the response as a `Blob`. \n
* \n * @param url The endpoint URL. \n * @param body The resources to add/update. \n * @param options
HTTP options \n * \n * @return An `Observable` of the response, with the response body as a `Blob`. \n * \n
put(url: string, body: any|null, options: { \n headers?: HttpHeaders|{[header: string]: string | string[]}, \n context?:
HttpContext, \n observe?: 'body', \n params?: HttpParams| \n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType: 'blob', \n withCredentials?:
boolean, \n }): Observable<Blob>; \n \n /** \n * Constructs a `PUT` request that interprets the body as a text string
and \n * returns the response as a string value. \n * \n * @param url The endpoint URL. \n * @param body The
resources to add/update. \n * @param options HTTP options \n * \n * @return An `Observable` of the response,
with a response body of type string. \n * \n put(url: string, body: any|null,
options: { \n headers?: HttpHeaders|{[header: string]: string | string[]}, \n context?: HttpContext, \n observe?:
'body', \n params?: HttpParams| \n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>}, \n reportProgress?: boolean, \n responseType: 'text', \n withCredentials?:
boolean, \n }): Observable<string>; \n \n /** \n * Constructs a `PUT` request that interprets the body as an
`ArrayBuffer` and \n * returns the full event stream. \n * \n * @param url The endpoint URL. \n * @param body
The resources to add/update. \n * @param options HTTP options \n * \n * @return An `Observable` of all
`HttpEvent`s for the request, \n * with the response body as an `ArrayBuffer`. \n * \n put(url: string, body:
any|null, options: { \n headers?: HttpHeaders|{[header: string]: string | string[]}, \n observe: 'events', \n context?:
HttpContext, \n params?: HttpParams| \n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>}, \n
reportProgress?: boolean, \n responseType: 'arraybuffer', \n withCredentials?: boolean, \n }):
Observable<HttpEvent<ArrayBuffer>>; \n \n /** \n * Constructs a `PUT` request that interprets the body as a

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`Blob` and returns the full event\n * stream.\n *\n * @param url The endpoint URL.\n * @param body The
resources to add/update.\n * @param options HTTP options\n *\n * @return An `Observable` of all
`HttpEvent`s for the request,\n * with the response body as a `Blob`.\n */\n put(url: string, body: any|null,
options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?:
HttpContext,\n params?: HttpParams|{\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n withCredentials?:
boolean,\n }): Observable<HttpEvent<Blob>>;\n\n /**\n * Constructs a `PUT` request that interprets the body as
a
text string and returns the full event\n * stream.\n *\n * @param url The endpoint URL.\n * @param body The
resources to add/update.\n * @param options HTTP options\n *\n * @return An `Observable` of all
`HttpEvent`s for the request, with a response body\n * of type string.\n */\n put(url: string, body: any|null,
options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?:
HttpContext,\n params?: HttpParams|{\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'text',\n withCredentials?:
boolean,\n }): Observable<HttpEvent<string>>;\n\n /**\n * Constructs a `PUT` request that interprets the body as
a JSON object and returns the full event\n * stream.\n *\n * @param url The endpoint URL.\n * @param body The
resources to add/update.\n * @param options HTTP options\n *\n * @return An `Observable` of all
`HttpEvent`s
for the request, with a response body of\n * type `Object`.\n */\n put(url: string, body: any|null, options: {\n
headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n context?: HttpContext,\n params?:
HttpParams|{\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n
reportProgress?: boolean,\n responseType?: 'json',\n withCredentials?: boolean,\n }):
Observable<HttpEvent<Object>>;\n\n /**\n * Constructs a `PUT` request that interprets the body as a JSON
object and returns the\n * full event stream.\n *\n * @param url The endpoint URL.\n * @param body The
resources to add/update.\n * @param options HTTP options\n *\n * @return An `Observable` of all
`HttpEvent`s for the request,\n * with a response body in the requested type.\n */\n put<T>(url: string, body:
any|null, options: {\n headers?: HttpHeaders|{[header: string]: string | string[]}, observe: 'events',\n
context?: HttpContext,\n params?: HttpParams|{\n {[param: string]: string | number | boolean |
ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n
withCredentials?: boolean,\n }): Observable<HttpEvent<T>>;\n\n /**\n * Constructs a `PUT` request that
interprets the body as an\n * `ArrayBuffer` and returns an observable of the full HTTP response.\n *\n *
@param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP
options\n *\n * @return An `Observable` of the `HttpResponse` for the request, with the response body as an\n *
`ArrayBuffer`.\n */\n put(url: string, body: any|null, options: {\n headers?: HttpHeaders|{[header: string]: string |
string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|{\n {[param: string]: string |
number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType:
'arraybuffer',\n withCredentials?: boolean,\n }): Observable<HttpResponse<ArrayBuffer>>;\n\n /**\n *
Constructs a `PUT` request that interprets the body as a `Blob` and returns the\n * full HTTP response.\n *\n *
@param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP
options\n *\n * @return An `Observable` of the `HttpResponse` for the request,\n * with the response body as a
`Blob`.\n */\n put(url: string, body: any|null, options: {\n headers?: HttpHeaders|{[header: string]: string |
string[]}, observe: 'response',\n context?: HttpContext,\n params?: HttpParams|{\n {[param: string]: string |
number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType: 'blob',\n
withCredentials?: boolean,\n }): Observable<HttpResponse<Blob>>;\n\n /**\n * Constructs a `PUT` request that
interprets the body as a text stream and returns the\n * full HTTP response.\n *\n *
@param url The endpoint URL.\n * @param body The resources to add/update.\n * @param options
HTTP options\n *\n * @return An `Observable` of the `HttpResponse` for the request, with a response body of
type\n * string.\n */\n put(url: string, body: any|null, options: {\n headers?: HttpHeaders|{[header: string]:

```

```

string | string[], observe: 'response',\n context?: HttpContext,\n params?: HttpParams\n {[param: string]:

string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean, responseType:

'text',\n withCredentials?: boolean,\n }): Observable<HttpResponse<string>>;\n\n /**\n * Constructs a `PUT`

request that interprets the body as a JSON object and returns the full HTTP\n * response.\n * \n * @param url

The endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP options\n * \n *

@return An `Observable` of the `HttpResponse` for the request, with a response body\n

* of type 'Object'.\n */\n put(url: string, body: any|null, options: {\n headers?: HttpHeaders|[header: string]:

string | string[]], observe: 'response',\n context?: HttpContext,\n params?: HttpParams\n {[param: string]:

string | number | boolean |

ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType:

'json',\n withCredentials?: boolean,\n }): Observable<HttpResponse<Object>>;\n\n /**\n *

Constructs a `PUT` request that interprets the body as an instance of the requested type and\n * returns the full

HTTP response.\n * \n * @param url The endpoint URL.\n * @param body The resources to add/update.\n *

@param options HTTP options\n * \n * @return An `Observable` of the `HttpResponse` for the request,\n * with

a response body in the requested type.\n */\n put<T>(url: string, body: any|null, options: {\n headers?:

HttpHeaders|[header: string]: string | string[]], observe: 'response',\n context?: HttpContext,\n

params?: HttpParams\n {[param: string]: string | number | boolean |

ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n

withCredentials?: boolean,\n }): Observable<HttpResponse<T>>;\n\n /**\n * Constructs a `PUT` request that

interprets the body as a JSON object\n * and returns an observable of JSON object.\n * \n * @param url The

endpoint URL.\n * @param body The resources to add/update.\n * @param options HTTP options\n * \n *

@return An `Observable` of the response as a JSON object.\n */\n put(url: string, body: any|null, options?: {\n

headers?: HttpHeaders|[header: string]: string | string[]],\n context?: HttpContext,\n observe?: 'body',\n

params?: HttpParams\n {[param: string]: string | number | boolean |

ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n

withCredentials?: boolean,\n }): Observable<Object>;\n\n /**\n *

Constructs a `PUT` request that interprets the body as an instance of the requested type\n * and returns an

observable of the requested type.\n * \n * @param url The endpoint URL.\n * @param body The resources to

add/update.\n * @param options HTTP options\n * \n * @return An `Observable` of the requested type.\n */\n

put<T>(url: string, body: any|null, options?: {\n headers?: HttpHeaders|[header: string]: string | string[]],\n

context?: HttpContext,\n observe?: 'body',\n params?: HttpParams\n {[param: string]: string | number |

boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?: boolean,\n responseType?: 'json',\n

withCredentials?: boolean,\n }): Observable<T>;\n\n /**\n * Constructs an observable that, when subscribed,

causes the configured\n * `PUT` request to execute on the server. The `PUT` method replaces an existing

resource\n * with a new set of values.\n * See the individual overloads for details

on the return type.\n */\n put(url: string, body: any|null, options: {\n headers?: HttpHeaders|[header: string]:

string | string[]],\n context?: HttpContext,\n observe?: 'body'|'events'|'response',\n params?: HttpParams\n {[param: string]: string | number | boolean | ReadonlyArray<string|number|boolean>},\n reportProgress?:

boolean,\n responseType?: 'arraybuffer'|'blob'|'json'|'text',\n withCredentials?: boolean,\n } = {}):

Observable<any> {\n return this.request<any>('PUT', url, addBody(options, body));\n } }\n\n", /**\n *

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style license that can be\n * found in the LICENSE file at https://angular.io/license\n * \n\n\nimport {Injectable,

InjectionToken} from '@angular/core';\nimport {Observable} from 'rxjs';\nimport {HttpHandler} from

'./backend';\nimport {HttpRequest} from './request';\nimport {HttpEvent} from './response';\n\n/**\n * Intercepts

and handles an `HttpRequest` or `HttpResponse`.\n * \n * Most interceptors transform the outgoing request before

passing it to the\n * next interceptor in the chain, by calling `next.handle(transformedReq)`.\n * An interceptor may

transform the\n * response event stream as well, by applying additional RxJS operators on the stream\n * returned

by `next.handle()`.\n * \n * More rarely, an interceptor may handle the request entirely,\n * and compose a new event

stream instead of invoking `next.handle()`. This is an\n * acceptable behavior, but keep in mind that further

```



interceptors will be skipped entirely.

It is also rare but valid for an interceptor to return multiple responses on the event stream for a single request.

`@publicApi`

`@see [HTTP Guide](guide/http#intercepting-requests-and-responses)`

`@usageNotes`

To use the same instance of `HttpInterceptors` for the entire app, import the `HttpClientModule` only in your `AppModule`, and add the interceptors to the root application injector.

If you import `HttpClientModule` multiple times across different modules (for example, in lazy loading modules), each import creates a new copy of the `HttpClientModule`, which overwrites the interceptors provided in the root module.

`HttpInterceptor` interface

```

 /**
 * Identifies and handles a given HTTP request.
 * @param req The outgoing request object to handle.
 * @param next The next interceptor in the chain, or the backend if no interceptors remain in the chain.
 * @returns An observable of the event stream.
 */
 intercept(req: HttpRequest<any>, next:
 HttpHandler): Observable<HttpEvent<any>>;

```

`HttpHandler` which applies an `HttpInterceptor` to an `HttpRequest`.

`HttpInterceptorHandler` implements `HttpHandler`

```

 constructor(private
 next: HttpHandler, private interceptor: HttpInterceptor) {}

 handle(req: HttpRequest<any>):
 Observable<HttpEvent<any>> {
 return this.interceptor.intercept(req, this.next);
 }

```

A multi-provider token that represents the array of registered `HttpInterceptor` objects.

`@publicApi`

`HTTP_INTERCEPTORS` = new InjectionToken<HttpInterceptor[]>('HTTP\_INTERCEPTORS');

`@Injectable`

`NoopInterceptor` implements `HttpInterceptor`

```

 intercept(req: HttpRequest<any>, next: HttpHandler):
 Observable<HttpEvent<any>> {
 return next.handle(req);
 }

```

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```

import {DOCUMENT} from '@angular/common';
import {Inject, Injectable} from '@angular/core';
import {Observable, Observer} from 'rxjs';
import {HttpBackend,
 HttpHandler} from './backend';
import {HttpRequest} from './request';
import {HttpErrorResponse, HttpEvent,
 HttpEventType,
 HttpResponse,
 HttpStatusCode} from './response';

// Every request made through JSONP needs a callback
// name that's unique across the whole page. Each request is assigned an id and the callback name is constructed
// from that. The next id to be assigned is tracked in a global variable here that is shared among all applications on
// the page.
let nextRequestId: number = 0;

// When a pending <script> is unsubscribed we'll move it to this
// document, so it won't be executed.
let foreignDocument: Document|undefined;

// Error text given when a JSONP script is injected, but doesn't invoke the callback
// passed in its URL.
export const
JSONP_ERR_NO_CALLBACK = 'JSONP injected script did not invoke callback.';

// Error text given when a request is passed to the JsonpClientBackend that doesn't have a request method
JSONP_ERR_WRONG_METHOD = 'JSONP requests must use JSONP request method.';

export const
JSONP_ERR_WRONG_RESPONSE_TYPE = 'JSONP requests must use Json response type.';

// DI token/abstract type representing a map of JSONP
// callbacks.
// In the browser, this should always be the `window` object.
export abstract class
JsonpCallbackContext {
 [key: string]: (data: any) => void;
}

// Processes an `HttpRequest` with the
// JSONP method, by performing JSONP style requests.
// @see `HttpHandler`
// @see `HttpXHRBackend`
// @publicApi
@Injectable()
export class JsonpClientBackend implements HttpBackend {
 /**
 * A resolved promise that can be used to schedule microtasks in the event handlers.
 */
 private readonly
 resolvedPromise = Promise.resolve();

 constructor(private callbackMap: JsonpCallbackContext,
 @Inject(DOCUMENT) private document: any) {}

 /**
 * Get the name of the next callback method, by
 * incrementing the global `nextRequestId`.
 */
 private nextCallback(): string {
 return `ng_jsonp_callback_${nextRequestId++}`;
 }

 /**
 * Processes a JSONP request and returns an event stream of the results.
 * @param req The request object.
 * @returns An observable of the response events.
 */
 handle(req: HttpRequest<never>):
 Observable<HttpEvent<any>> {
 // Firstly, check both the method and response type. If either doesn't match
 // then the request was improperly routed here and cannot be handled.
 if (req.method !== 'JSONP') {
 throw

```

```

new Error(JSONP_ERR_WRONG_METHOD);\n } else if (req.responseType !== 'json') {\n throw new
Error(JSONP_ERR_WRONG_RESPONSE_TYPE);\n }\n\n // Everything else happens inside the Observable
boundary.\n return new Observable<HttpEvent<any>>>((observer: Observer<HttpEvent<any>>>) => {\n // The
first step to make a request is to generate the callback name, and replace the\n // callback placeholder in the URL
with the name. Care has to be taken here to ensure\n // a trailing &, if matched, gets inserted back into
the URL in the correct place.\n const callback = this.nextCallback();\n const url =
req.urlWithParams.replace(/=JSONP_CALLBACK(&|$)/, `=${callback}$1`);\n // Construct the <script> tag
and point it at the URL.\n const node = this.document.createElement('script');\n node.src = url;\n\n // A
JSONP request requires waiting for multiple callbacks. These variables\n // are closed over and track state across
those callbacks.\n // The response object, if one has been received, or null otherwise.\n let body: any|null =
null;\n\n // Whether the response callback has been called.\n let finished: boolean = false;\n\n // Set the
response callback in this.callbackMap (which will be the window\n // object in the browser. The script being
loaded via the <script> tag will\n // eventually call this callback.\n this.callbackMap[callback] = (data?: any)
=> {\n // Data has been received from the JSONP script. Firstly,
delete this callback.\n delete this.callbackMap[callback];\n\n // Set state to indicate data was received.\n body = data;\n finished = true;\n });\n\n // cleanup() is a utility closure that removes the <script> from the
page and\n // the response callback from the window. This logic is used in both the\n // success, error, and
cancellation paths, so it's extracted out for convenience.\n const cleanup = () => {\n // Remove the <script>
tag if it's still on the page.\n if (node.parentNode) {\n node.parentNode.removeChild(node);\n }\n\n // Remove the response callback from the callbackMap (window object in the\n // browser).\n delete
this.callbackMap[callback];\n };\n\n // onLoad() is the success callback which runs after the response
callback\n // if the JSONP script loads successfully. The event itself is unimportant.\n // If something went
wrong, onLoad() may run
without the response callback\n // having been invoked.\n const onLoad = (event: Event) => {\n // We
wrap it in an extra Promise, to ensure the microtask\n // is scheduled after the loaded endpoint has executed any
potential microtask itself,\n // which is not guaranteed in Internet Explorer and EdgeHTML. See issue #39496\n this.resolvedPromise.then(() => {\n // Cleanup the page.\n cleanup();\n\n // Check whether the
response callback has run.\n if (!finished) {\n // It hasn't, something went wrong with the request.
Return an error via\n // the Observable error path. All JSONP errors have status 0.\n observer.error(new HttpResponse({\n url,\n status: 0,\n statusText: 'JSONP Error',\n error: new Error(JSONP_ERR_NO_CALLBACK),\n }));\n return;\n }\n\n // Success.
body either contains the
response body or null if none was\n // returned.\n observer.next(new HttpResponse({\n body,\n status: HttpStatusCode.Ok,\n statusText: 'OK',\n url,\n }));\n\n // Complete the stream,
the response is over.\n observer.complete();\n });\n });\n\n // onError() is the error callback, which
runs if the script returned generates\n // a Javascript error. It emits the error via the Observable error channel as\n
// a HttpResponse.\n const onError: any = (error: Error) => {\n cleanup();\n\n // Wrap the error in
a HttpResponse.\n observer.error(new HttpResponse({\n error,\n status: 0,\n statusText: 'JSONP Error',\n url,\n }));\n });\n\n // Subscribe to both the success (load) and error
events on the <script> tag,\n // and add it to the page.\n node.addEventListener('load', onLoad);\n node.addEventListener('error', onError);\n this.document.body.appendChild(node);\n\n // The request has
now been successfully sent.\n observer.next({type: HttpEventType.Sent});\n\n // Cancellation handler.\n return () => {\n if (!finished) {\n this.removeListeners(node);\n }\n\n // And finally, clean up the
page.\n cleanup();\n };\n });\n\n private removeListeners(script: HTMLScriptElement): void {\n //
Issue #34818\n // Changing <script>'s ownerDocument will prevent it from execution.\n //
https://html.spec.whatwg.org/multipage/scripting.html#execute-the-script-block\n if (!foreignDocument) {\n foreignDocument = (this.document.implementation as DOMImplementation).createHTMLDocument();\n }\n foreignDocument.adoptNode(script);\n }\n}\n\n/**\n * Identifies requests with the method JSONP and\n * shifts

```

```

them to the `JsonpClientBackend`.

`@see` `HttpInterceptor`

`@publicApi`

`@Injectable()`

`export class JsonpInterceptor {

 constructor(private jsonp: JsonpClientBackend) {}

 /**

 * Identifies and handles a given JSONP request.

 * @param req The outgoing request object to handle.

 * @param next The next interceptor in the chain, or the backend

 * if no interceptors remain in the chain.

 * @returns An observable of the event stream.

 */

 intercept(req: HttpRequest<any>, next: HttpHandler):

 Observable<HttpEvent<any>> {

 if (req.method === 'JSONP') {

 return this.jsonp.handle(req as

 HttpRequest<never>);

 }

 // Fall through for normal HTTP requests.

 return next.handle(req);

 }

}

*/

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`import {XhrFactory} from '@angular/common';`

`import {Injectable} from '@angular/core';`

`import {Observable, Observer}`

`from 'rxjs';`

`import {HttpBackend} from './backend';`

`import {HttpHeaders} from './headers';`

`import {HttpRequest} from './request';`

`import {HttpDownloadProgressEvent, HttpResponseError, HttpEvent,`

`HttpEventType, HttpHeadersResponse, HttpStatusCode,`

`HttpUploadProgressEvent} from './response';`

`const XSS_PREFIX = /\\(\\/|'|\"|\\\\)/g;

`/**

 * Determine an appropriate URL for the response, by checking either

 * XMLHttpRequest.responseURL or the X-Request-URL header.

 */

function getResponseUrl(xhr: any): string | null {

 if ('responseURL' in xhr && xhr.responseURL) {

 return xhr.responseURL;

 }

 if (/^X-Request-URL:/m.test(xhr.getAllResponseHeaders())) {

 return

 xhr.getResponseHeader('X-Request-URL');

 }

 return null;

}

`/**

 * Uses `XMLHttpRequest` to send requests to a backend server.

 * @see `HttpHandler`

 * @see `JsonpClientBackend`

 * @publicApi`

`@Injectable()`

`export class HttpXhrBackend implements HttpBackend`

`{

 constructor(private xhrFactory: XhrFactory) {}

 /**

 * Processes a request and returns a stream of response events.

 * @param req The request object.

 * @returns An observable of the response events.

 */

 handle(req: HttpRequest<any>): Observable<HttpEvent<any>> {

 // Quick check to give a better error message when a user attempts to use

 // HttpClient.jsonp() without installing the HttpClientModule

 if (req.method === 'JSONP') {

 throw new Error(`Attempted to construct Jsonp request without

 HttpClientModule installed.`);

 }

 // Everything happens on Observable subscription.

 return new Observable((observer: Observer<HttpEvent<any>>) => {

 // Start by setting up the XHR object with request method,

 // URL, and withCredentials flag.

 const xhr = this.xhrFactory.build();

 xhr.open(req.method, req.urlWithParams);

 if (!req.withCredentials) {

 xhr.withCredentials = true;

 }

 // Add all the requested headers.

 req.headers.forEach((name, values) => xhr.setRequestHeader(name, values.join(',')));

 // Add an Accept header if one isn't present already.

 if (!req.headers.has('Accept')) {

 xhr.setRequestHeader('Accept', 'application/json, text/plain, */*');

 }

 // Auto-detect the Content-Type header if one isn't present already.

 if (!req.headers.has('Content-Type')) {

 const detectedType = req.detectContentTypeHeader();

 // Sometimes Content-Type detection fails.

 if (detectedType !== null) {

 xhr.setRequestHeader('Content-Type', detectedType);

 }

 }

 // Set the responseType if one was requested.

 if (req.responseType) {

 const responseType = req.responseType.toLowerCase();

 // JSON responses need to be processed as text. This is because if the server

 // returns an XSS-prefix JSON response, the browser will fail to

 // parse it, and xhr.responseText cannot be accessed to retrieve the prefixed

 // JSON data in order to strip the prefix. Thus, all JSON is parsed by first requesting text and then applying

 // JSON.parse.

 xhr.responseType = ((responseType !== 'json') ? responseType : 'text') as any;

 }

 // Serialize the request body if one is present. If not, this will be set to null.

 const reqBody = req.serializeBody();

 // If progress events are enabled, response headers will be delivered in two events - the

 // HttpHeadersResponse event and the full HttpResponse event. However, since response headers don't change

 // between these two events, it doesn't make sense to parse them twice. So headerResponse caches the data

 // extracted from the response whenever it's first parsed, to ensure parsing isn't duplicated.

 let headerResponse: HttpHeadersResponse | null = null;


```

```

 // partialFromXhr extracts the HttpHeadersResponse from the current XMLHttpRequest\n // state, and
memoizes it into headerResponse.\n const partialFromXhr = (): HttpHeadersResponse => {\n if
(headerResponse !== null) {\n return headerResponse;\n }\n const statusText = xhr.statusText ||
'OK';\n // Parse headers from XMLHttpRequest - this step is lazy.\n const headers = new
HttpHeaders(xhr.getAllResponseHeaders());\n // Read the response URL from the XMLHttpRequest
instance and fall back on the\n // request URL.\n const url = getUrl(xhr) || req.url;\n //
Construct the HttpHeadersResponse and memoize it.\n headerResponse = new HttpHeadersResponse({headers,
status: xhr.status, statusText, url});\n return headerResponse;\n };\n // Next, a few closures are defined
for the various events which XMLHttpRequest can\n // emit. This allows them to be unregistered as
event listeners later.\n // First up is the load event, which represents a response being fully available.\n
const onLoad = () => {\n // Read response state from the memoized partial data.\n let {headers, status,
statusText, url} = partialFromXhr();\n // The body will be read out if present.\n let body: any|null =
null;\n if (status !== HttpStatusCode.NoContent) {\n // Use XMLHttpRequest.response if set,
responseText otherwise.\n body = (typeof xhr.response === 'undefined') ? xhr.responseText : xhr.response;\n
 }\n // Normalize another potential bug (this one comes from CORS).\n if (status === 0) {\n status
= !!body ? HttpStatusCode.Ok : 0;\n }\n // ok determines whether the response will be transmitted on the
event or\n // error channel. Unsuccessful status codes (not 2xx) will always be errors,\n // but a successful
status code can still result in an error
 if the user\n // asked for JSON data and the body cannot be parsed as such.\n let ok = status >= 200 &&
status < 300;\n // Check whether the body needs to be parsed as JSON (in many cases the browser\n //
will have done that already).\n if (req.responseType === 'json' && typeof body === 'string') {\n // Save
the original body, before attempting XSS prefix stripping.\n const originalBody = body;\n body =
body.replace(XSSI_PREFIX, '');\n try {\n // Attempt the parse. If it fails, a parse error should be
delivered to the user.\n body = body !== '' ? JSON.parse(body) : null;\n } catch (error) {\n //
Since the JSON.parse failed, it's reasonable to assume this might not have been a\n // JSON response. Restore
the original body (including any XSS prefix) to deliver\n // a better error response.\n body =
originalBody;\n }\n // If this
was an error request to begin with, leave it as a string, it probably\n // just isn't JSON. Otherwise, deliver the
parsing error to the user.\n if (ok) {\n // Even though the response status was 2xx, this is still an
error.\n ok = false;\n // The parse error contains the text of the body that failed to parse.\n
body = {error, text: body} as HttpJsonParseError;\n }\n }\n }\n if (ok) {\n // A
successful response is delivered on the event stream.\n observer.next(new HttpResponse({\n body,\n
 headers,\n status,\n statusText,\n url: url || undefined,\n }));\n // The full body has
been received and delivered, no further events\n // are possible. This request is complete.\n observer.complete();\n } else {\n // An unsuccessful request is delivered on the error channel.\n
 observer.error(new HttpResponse({\n // The error in this case is the response body (error from the
server).\n error: body,\n headers,\n status,\n statusText,\n url: url || undefined,\n
 }));\n }\n // The onError callback is called when something goes wrong at the network level.\n
// Connection timeout, DNS error, offline, etc. These are actual errors, and are\n // transmitted on the error
channel.\n const onError = (error: ProgressEvent) => {\n const {url} = partialFromXhr();\n const res =
new HttpResponse({\n error,\n status: xhr.status || 0,\n statusText: xhr.statusText || 'Unknown
Error',\n url: url || undefined,\n });\n observer.error(res);\n };\n // The sentHeaders flag tracks
whether the HttpResponseHeaders event\n // has been sent on the stream. This is necessary
to track if progress\n // is enabled since the event will be sent on only the first download\n // progress event.\n
 let sentHeaders = false;\n // The download progress event handler, which is only registered if\n // progress
events are enabled.\n const onDownloadProgress = (event: ProgressEvent) => {\n // Send the
HttpResponseHeaders event if it hasn't been sent already.\n if (!sentHeaders) {\n observer.next(partialFromXhr());\n sentHeaders = true;\n }\n // Start building the download progress

```

```
// event stream.\n let progressEvent: HttpDownloadProgressEvent = {\n type: EventType.DownloadProgress,\n loaded: event.loaded,\n };\n\n // Set the total number of bytes in the event if it's available.\n if (event.lengthComputable) {\n progressEvent.total = event.total;\n }\n\n // If the request was for text content and a partial response is\n // available on XMLHttpRequest, include it in the progress event\n // to allow for streaming reads.\n if (req.responseType === 'text' && !xhr.responseText) {\n progressEvent.partialText = xhr.responseText;\n }\n\n // Finally, fire the event.\n observer.next(progressEvent);\n };\n\n // The upload progress event handler, which is only registered if\n // progress events are enabled.\n const onUpProgress = (event: ProgressEvent) => {\n // Upload progress events are simpler. Begin building the progress\n // event.\n let progress: HttpUploadProgressEvent = {\n type: EventType.UploadProgress,\n loaded: event.loaded,\n };\n\n // If the total number of bytes being uploaded is available, include\n // it.\n if (event.lengthComputable) {\n progress.total = event.total;\n }\n\n // Send the event.\n observer.next(progress);\n }; \n\n // By default, register for load and error events.\n xhr.addEventListener('load', onLoad);\n xhr.addEventListener('error', onError);\n xhr.addEventListener('timeout', onError);\n xhr.addEventListener('abort', onError);\n\n // Progress events are only enabled if requested.\n if (req.reportProgress) {\n // Download progress is always enabled if requested.\n xhr.addEventListener('progress', onDownProgress);\n\n // Upload progress depends on whether there is a body to upload.\n if (reqBody !== null && xhr.upload) {\n xhr.upload.addEventListener('progress', onUpProgress);\n }\n }\n\n // Fire the request, and notify the event stream that it was fired.\n xhr.send(reqBody!);\n observer.next({type: EventType.Sent});\n\n // This is the return from the Observable function, which is the\n // request cancellation handler.\n return () => {\n // On a cancellation, remove all registered event listeners.\n xhr.removeEventListener('error', onError);\n xhr.removeEventListener('abort', onError);\n xhr.removeEventListener('load', onLoad);\n xhr.removeEventListener('timeout', onError);\n\n if (req.reportProgress) {\n xhr.removeEventListener('progress', onDownProgress);\n if (reqBody !== null && xhr.upload) {\n xhr.upload.removeEventListener('progress', onUpProgress);\n }\n }\n\n // Finally, abort the in-flight request.\n if (xhr.readyState !== xhr.DONE) {\n xhr.abort();\n }\n }; \n}\n\n/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\nimport {DOCUMENT, parseCookieValue as parseCookieValue} from '@angular/common';\nimport {Inject, Injectable, InjectionToken, PLATFORM_ID} from '@angular/core';\nimport {Observable} from 'rxjs';\nimport {HttpHandler} from './backend';\nimport {HttpInterceptor} from './interceptor';\nimport {HttpRequest} from './request';\nimport {HttpEvent} from './response';\n\nexport const XSRF_COOKIE_NAME = new InjectionToken<string>('XSRF_COOKIE_NAME');\nexport const XSRF_HEADER_NAME = new InjectionToken<string>('XSRF_HEADER_NAME');\n\n/**\n * Retrieves the current XSRF token to use with the next outgoing request.\n *\n * @publicApi\n */\nexport abstract class HttpXsrfTokenExtractor {\n /**\n * Get the XSRF token to use with an outgoing request.\n *\n * Will be called for every request, so the token may change between requests.\n *\n * abstract getToken(): string|null;\n */\n}\n\n/**\n * `HttpXsrfTokenExtractor` which retrieves the token from a cookie.\n *\n * @Injectable()\n */\nexport class HttpXsrfCookieExtractor implements HttpXsrfTokenExtractor {\n private lastCookieString: string = '';\n private lastToken: string|null = null;\n\n /**\n * @internal for testing\n */\n parseCount: number = 0;\n\n constructor(\n @Inject(DOCUMENT) private doc: any,\n @Inject(PLATFORM_ID) private platform: string,\n @Inject(XSRF_COOKIE_NAME) private cookieName: string)\n {} \n\n getToken(): string|null {\n if (this.platform === 'server') {\n return null;\n }\n\n const cookieString = this.doc.cookie || '';\n if (cookieString !== this.lastCookieString) {\n this.parseCount++;\n this.lastToken = parseCookieValue(cookieString, this.cookieName);\n this.lastCookieString = cookieString;\n }\n\n return this.lastToken;\n }\n}\n\n/**\n * `HttpInterceptor` which adds an XSRF token to eligible outgoing requests.\n *\n * @Injectable()\n */\nexport class
```

```

HttpXsrfInterceptor implements HttpInterceptor {\n constructor(\n private tokenService:
HttpXsrfTokenExtractor,\n @Inject(XSRF_HEADER_NAME) private headerName: string) {\n\n
intercept(req: HttpRequest<any>,\n next: HttpHandler): Observable<HttpEvent<any>> {\n const lcUrl = req.url.toLowerCase();\n // Skip both non-
mutating requests and absolute URLs.\n // Non-mutating requests don't require a token, and absolute URLs require
special handling\n // anyway as the cookie set\n // on our origin is not the same as the token expected by another
origin.\n if (req.method === 'GET' || req.method === 'HEAD' || lcUrl.startsWith('http://') ||\n lcUrl.startsWith('https://')) {\n return next.handle(req);\n }\n const token = this.tokenService.getToken();\n // Be careful not to overwrite an existing header of the same name.\n if (token !== null &&
!req.headers.has(this.headerName)) {\n req = req.clone({headers: req.headers.set(this.headerName, token)});\n
}\n return next.handle(req);\n }\n}\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n *
Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport {Injectable, Injector, ModuleWithProviders, NgModule}
from '@angular/core';\nimport {Observable} from 'rxjs';\n\nimport {HttpBackend, HttpHandler} from
'./backend';\nimport {HttpClient} from './client';\nimport {HTTP_INTERCEPTORS, HttpInterceptor,
HttpInterceptorHandler, NoopInterceptor} from './interceptor';\nimport {JsonpCallbackContext,
JsonpClientBackend, JsonpInterceptor} from './jsonp';\nimport {HttpRequest} from './request';\nimport {HttpEvent}
from './response';\nimport {HttpXHRBackend} from './xhr';\nimport {HttpXsrfCookieExtractor, HttpXsrfInterceptor,
HttpXsrfTokenExtractor, XSRF_COOKIE_NAME, XSRF_HEADER_NAME} from './xsrf';\n\n/**\n * An
injectable `HttpHandler` that applies multiple interceptors\n * to a request before passing it to the given
`HttpBackend`.\n *\n * The interceptors are loaded lazily from the injector, to allow\n * interceptors to themselves
inject classes depending indirectly\n * on `HttpInterceptingHandler`
itself.\n *\n * @see `HttpInterceptor`\n */\n@injectable()\nexport class HttpInterceptingHandler implements
HttpHandler {\n private chain: HttpHandler|null = null;\n\n constructor(private backend: HttpBackend, private
injector: Injector) {\n\n handle(req: HttpRequest<any>): Observable<HttpEvent<any>> {\n if (this.chain ===
null) {\n const interceptors = this.injector.get(HTTP_INTERCEPTORS, []);\n this.chain =
interceptors.reduceRight(\n (next, interceptor) => new HttpInterceptorHandler(next, interceptor),
this.backend);\n }\n return this.chain.handle(req);\n }\n}\n\n/**\n * Constructs an `HttpHandler` that applies
interceptors\n * to a request before passing it to the given `HttpBackend`.\n *\n * Use as a factory function within
`HttpClientModule`.\n */\nexport function interceptingHandler(\n backend: HttpBackend, interceptors:
HttpInterceptor[]|null = []): HttpHandler {\n if (!interceptors) {\n return backend;\n }\n return
interceptors.reduceRight(\n (next, interceptor) => new HttpInterceptorHandler(next, interceptor), backend);\n}\n\n\n/**\n * Factory function
that determines where to store JSONP callbacks.\n *\n * Ordinarily JSONP callbacks are stored on the `window`
object, but this may not exist\n * in test environments. In that case, callbacks are stored on an anonymous object
instead.\n */\nexport function jsonpCallbackContext(): Object {\n if (typeof window === 'object') {\n
return window;\n }\n return {};\n}\n\n\n/**\n * Configures XSRF protection support for outgoing requests.\n *\n *
For a server that supports a cookie-based XSRF protection system,\n * use directly to configure XSRF protection
with the correct\n * cookie and header names.\n *\n * If no names are supplied, the default cookie name is `XSRF-
TOKEN`\n * and the default header name is `X-XSRF-TOKEN`.\n */\n * @publicApi\n */\n@NgModule({\n providers: [\n HttpXsrfInterceptor,\n {provide: HTTP_INTERCEPTORS, useExisting:
HttpXsrfInterceptor, multi: true},\n {provide: HttpXsrfTokenExtractor, useClass: HttpXsrfCookieExtractor},\n
{provide: XSRF_COOKIE_NAME, useValue: 'XSRF-TOKEN'},\n {provide: XSRF_HEADER_NAME,
useValue: 'X-XSRF-TOKEN'},\n],\n})\nexport class HttpClientXsrfModule {\n /**\n * Disable the default
XSRF protection.\n */\n static disable(): ModuleWithProviders<HttpClientXsrfModule> {\n return {\n
ngModule: HttpClientXsrfModule,\n providers: [\n {provide: HttpXsrfInterceptor, useClass:
NoopInterceptor},\n],\n };\n }\n}\n\n/**\n * Configure XSRF protection.\n * @param options An object that
can specify either or both\n * cookie name or header name.\n * - Cookie name default is `XSRF-TOKEN`.\n * -

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Header name default is `X-XSRF-TOKEN`.
headerName?: string,
HttpClientXsrfModule,
providers: [
 options.cookieName ? {provide: XSRF_COOKIE_NAME, useValue: options.cookieName} : [],
 options.headerName ? {provide: XSRF_HEADER_NAME, useValue: options.headerName} : [],
]
** Configures the [dependency injector](guide/glossary#injector) for `HttpClient` with supporting services for XSRF. Automatically imported by `HttpClientModule`. You can add interceptors to the chain behind `HttpClient` by binding them to the multiprovider for built-in [DI token](guide/glossary#di-token) `HTTP_INTERCEPTORS`.
@publicApi
@NgModule({
 cookieName: 'XSRF-TOKEN',
 headerName: 'X-XSRF-TOKEN',
}),
],
** Configures the [dependency injector](guide/glossary#injector) where it is imported with supporting services for HTTP communications.
providers: [
 HttpClient, {provide: HttpHandler, useClass: HttpInterceptingHandler},
 HttpXHRBackend, {provide: HttpBackend, useExisting: HttpXHRBackend},
])
export class HttpClientModule {
 /** Configures the [dependency injector](guide/glossary#injector) for `HttpClient` with supporting services for JSONP. Without this module, Jsonp requests reach the backend with method JSONP, where they are rejected. You can add interceptors to the chain behind `HttpClient` by binding them to the multiprovider for built-in [DI token](guide/glossary#di-token) `HTTP_INTERCEPTORS`.
 @publicApi
 @NgModule({
 providers: [
 JsonpClientBackend, {provide: JsonpCallbackContext, useFactory: jsonpCallbackContext},
 {provide: HTTP_INTERCEPTORS, useClass: JsonpInterceptor, multi: true},
],
 })
 export class HttpClientJsonpModule {
 /**
 @license Copyright Google LLC All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */
import {XhrFactory as XhrFactory_fromAngularCommon} from '@angular/common';
/** A wrapper around the `XMLHttpRequest` constructor.
 @publicApi
 @see `XhrFactory`
 @deprecated `XhrFactory` has moved, please import `XhrFactory` from `@angular/common` instead.
 */
export type XhrFactory = XhrFactory_fromAngularCommon;
/** A wrapper around the `XMLHttpRequest` constructor.
 @publicApi
 @see `XhrFactory`
 @deprecated `XhrFactory` has moved, please import `XhrFactory` from `@angular/common` instead.
 */
export const XhrFactory = XhrFactory_fromAngularCommon;
export {HttpBackend, HttpHandler} from './src/backend';
export {HttpClient} from './src/client';
export {HttpContext, HttpContextToken} from './src/context';
export {HttpHeaders} from './src/headers';
export {HTTP_INTERCEPTORS, HttpInterceptor} from './src/interceptor';
export {JsonpClientBackend, JsonpInterceptor} from './src/jsonp';
export {HttpClientJsonpModule, HttpClientModule, HttpClientXsrfModule, HttpInterceptingHandler as HttpInterceptingHandler} from './src/module';
export {HttpParameterCodec, HttpParams, HttpParamsOptions, HttpUrlEncodingCodec} from './src/params';
export {HttpRequest} from './src/request';
export {HttpDownloadProgressEvent, HttpResponseBase, HttpStatus, HttpStatusCode, HttpUploadProgressEvent, HttpUserEvent} from './src/response';
export {HttpXHRBackend} from './src/xhr';
export {HttpXsrfTokenExtractor} from './src/xsrf';
*/
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* Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
// This file is not used to build this module. It is only used during editing
by the TypeScript language service and during build for verification. ngc replaces this file with production index.ts when it rewrites private symbol names.
export * from './public_api';
/** Generated bundle index. Do not edit.
*/
export * from './index';
names: ["parseCookieValue", "XhrFactory_fromAngularCommon"], mappings: "AAAA;AAYA;MAYsB,WAAW;CAEhC;AAED;MAUsB,WAAW;;ActCjC;AAAcA;MAOa,WAAW
```

;;IA0BtB,YAAY,OAAoD;;;;;QAdxD,oBAAe,GAAwB,IAAI,GAAG,EAAE,CAAC;;;;;QAUjD,eAAU,GAAkB,IAAI,CAAC;QAKvC,IAAI,CAAC,OAAO,EAAE;YACZ,IAAI,CAAC,OAAO,GAAG,IAAI,GAAG,EAAoB,CAAC;SAC5C;aAAM,IAAI,OAAO,OAAO,KAAK,QAAQ,EAAE;YACtC,IAAI,CAAC,QAAQ,GAAG;gBACd,IAAI,CAAC,OAAO,GAAG,IAAI,GAAG,EAAoB,CAAC;gBAC3C,OAAO,CAAC,KAAK,CAAC,IAAI,CAAC,CAAC,OAAO,CAAC,IAAI;oBAC9B,MAAM,KAAK,GAAG,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,CAAC;oBACbC,IAAI,KAAK,GAAG,CAAC,EAAE;wBACb,MAAM,IAAI,GAAG,IAAI,CAAC,KAAK,CAAC,CAAC,EAAE,KAAK,CAAC,CAAC;wBACiC,MAAM,GAAG,GAAG,IAAI,CAAC,WAaw,EAAE,CAAC;wBAC/B,MAAM,KAAK,GAAg,IAAI,CAAC,KAAK,CAAC,KAAK,GAAG,CAAC,CAAC,CAAC,IAAI,EAAE,CAAC;wBAC3C,IAAI,CAAC,sBAAsB,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;wBACvC,IAAI,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,CAAC,EAAE;4BACzB,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,CAAE,CAAC,IAAI,CAAC,KAAK,CAAC,CAAC;yBACpC;6BAAM;4BACL,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,EAAE,CAAC,KAAK,CAAC,CAAC;yBACbC;qBACf;iBACf,CAAC,CAAC;aACJ,CAAC;SACH;aAAM;YACL,IAAI,CAAC,QAAQ,GAAG;gBACd,IAAI,CAAC,OAAO,GAAG,IAAI,GAAG,EAAoB,CAAC;gBAC3C,MAAM,CAAC,IAAI,CAAC,OAAO,CAAC,CAAC,OAAO,CAAC,IAAI;oBAC/B,IAAI,MAAM,GAAoB,OAAO,CAAC,IAAI,CAAC,CAAC;oBAC5C,MAAM,GAAG,GAAG,IAAI,CAAC,WAaw,EAAE,CAAC;oBAC/B,IAAI,OAAO,MAAM,KAAK,QAAQ,EAAE;wBAC9B,MAAM,GAAG,CAAC,MAAM,CAAC,CAAC;qBACnB;oBACD,IAAI,MAAM,CAAC,MAAM,GAAG,CAAC,EAAE;wBACrB,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,EAAE,MAAM,CAAC,CAAC;wBAC9B,IAAI,CAAC,sBAAsB,CAAC,IAAI,EAAE,GAAG,CAAC,CAAC;qBACxC;iBACf,CAAC,CAAC;aACJ,CAAC;SACH;KACF;;;;;;IASD,GAAG,CAAC,IAAY;QACd,IAAI,CAAC,IAAI,EAAE,CAAC;QAEZ,OA AO,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,IAAI,CAAC,WAaw,EAAE,CAAC,CAAC;KAC7C;;;;;;IASD,GAAG,CAAC,IAAY;QACd,IAAI,CAAC,IAAI,EAAE,CAAC;QAEZ,MAAM,MAAM,GAAG,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,IAAI,CAAC,WAaw,EAAE,CAAC,CAAC;QACpD,OAAO,MAAM,IAAI,MAAM,CAAC,MAAM,GAAG,CAAC,GAAG,MAAM,CAAC,CAAC,CAAC,GAAG,IAAI,CAAC;KACvD;;;;;IAOD,IAAI;QACF,IAAI,CAAC,IAAI,EAAE,CAAC;QAEZ,OAAO,KAAK,CAAC,IAAI,CAAC,IAAI,CAAC,eAAe,CAAC,MAAM,EAAE,CAAC,CAAC;KACID;;;;;;IASD,MAAM,CAAC,IAAY;QACjB,IAAI,CAAC,IAAI,EAAE,CAAC;QAEZ,OAAO,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,IAAI,CAAC,WAaw,EAAE,CAAC,IAAI,IAAI,CAAC;KACrD;; ;;;;;;IAYD,MAAM,CAAC,IAAY,EAAE,KAAkB;QACzC,OAAO,IAAI,CAAC,KAAK,CAAC,EAAC,IAAI,EAAE,KAAK,EAAE,EAAE,EAAE,GAAG,EAAC,CAAC,CAAC;KAC3C;;;;;;IAWD,GAAG,CAAC,IAAY,EAAE,KAAkB;QACtC,OAAO,IAAI,CAAC,KAAK,CAAC,EAAC,IAAI,EAAE,KAAK,EAAE,EAAE,EAAE,GAAG,EAAC,CAAC,CAAC;KAC3C;;;;;;IASD,MAAM,CAAC,IAAY,EAAE,KAAuB;QAC1C,OAAO,IAAI,CAAC,KAAK,CAAC,EAAC,IAAI,EAAE,KAAK,EAAE,EAAE,EAAE,GAAG,EAAC,CAAC,CAAC;KAC3C;IAEO,sBAAsB,CAAC,IAAY,EAAE,MAAc;QACzD,IAAI,CAAC,IAAI,CAAC,eAAe,CAAC,GAAG,CAAC,MAAM,CAAC,EAAE;YACrC,IAAI,CAAC,eAAe,CAAC,GAAG,CAAC,MAAM,EAAE,IAAI,CAAC,CAAC;SACxC;KACF;IAEO,IAAI;QACv,IAAI,CAAC,CAAC,IAAI,CAAC,QAAQ,EAAE;YACnB,IAAI,IAAI,CAAC,QAAQ,YAAY,WAaw,EAAE;gBACxC,IAAI,CAAC,QAAQ,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC;aAC9B;iBAAM;gBACL,IAAI,CAAC,QAAQ,EAAE,CAAC;aACjB;YACD,IAAI,CAAC,QAAQ,GAAG,IAAI,CAAC;YACrB,IAAI,CAAC,CAAC,IAAI,CAAC,UAAU,EAAE;gBACrB,IAAI,CAAC,UAAU,CAAC,OAAO,CAAC,MAAM,IAAI,IAAI,CAAC,WAaw,CAAC,MAAM,CAAC,CAAC,CAAC;gBAC5D,IAAI,CAAC,UAAU,GAAG,IAAI,CAAC;aACxB;SACF;KACF;IAEO,QAAQ,CAAC,KAAkB;QACjC,KAAK,CAAC,IAAI,EAAE,CAAC;QACb,KAAK,CAAC,IAAI,CAAC,KAAK,CAAC,OAAO,CAAC,IAAI,EAAE,CAAC,CAAC,OAAO,CAAC,GAAG;YAC1C,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,EAAE,KAAK,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,CAAE,CAAC,CAAC;YAC/C,IAAI,CAAC,eAAe,CAAC,GAAG,CAAC,GAAG,EAAE,KAAK,CAAC,eAAe,CAAC,GAAG,CAAC,GAAG,CAAE,CAAC,CAAC;SACH,CAAC,CAAC;KACJ;IAEO,KAAK,CAAC,MAAc;QAC1B,MAAM,KAAK,GAAG,IAAI,WAaw,EAAE,CAAC;QACH,CAAC,QAAQ;YACv,CAAC,CAAC,CAAC,IAAI,CAAC,QAAQ,IAAI,IAAI,CAAC,QAAQ,YAAY,WAaw,IAAI,IAAI,CAAC,QAAQ,GAAG,IAAI,CAAC;QACrF,KAAK,CAAC,UAAU,GAAG,CAAC,IAAI,CAAC,UAAU,IAAI,EAAE,EAAE,MAAM,CAAC,CAAC,MAAM,CAAC,CAAC,CAAC;QAC5D,OAAO,KAAK,CAAC;KACd;IAEO,WAaw,CAAC,MAAc;QACH,MAAM,GAAG,GAAG,MAAM,CAAC,IAAI,CAAC,WAaw,EAAE,CAAC;QACtC,QAAQ,MAAM,CAAC,EAAE;YACf,KAAK,GAAG,CAAC;YACT,KAAK,



GAAG;gBACN,IAAI,KAAK,GAAG,MAAM,CAAC,KAAM,CAAC;gBAC1B,IAAI,OAAO,KAAK,KAAK,QAA  
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CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,CAAC,GAAG,SAAS,KAAK,EAAE,CAAC;gBAC3E,IAAI,CAAC,I  
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AI,CAAC,CAAC;gBAC5B,MAAM;YACR,KAAK,GAAG;gBACN,MAAM,QAAQ,GAAG,MAAM,CAAC,KAA2  
B,CAAC;gBACpD,IAAI,CAAC,QAAQ,EAAE;oBACb,IAAI,CAAC,OAAO,CAAC,MAAM,CAAC,GAAG,CAAC  
,CAAC;oBACzB,IAAI,CAAC,eAAe,CAAC,MAAM,CAAC,GAAG,CAAC,CAAC;iBAClC;qBAAM;oBACL,IAA  
I,QAAQ,GAAG,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,CAAC,CAAC;oBACrC,IAAI,CAAC,QAAQ,E  
AAE;wBACb,OAAO;qBACR;oBACD,QAAQ,GAAG,QAAQ,CAAC,MAAM,CAAC,KAAK,IAAI,QAAQ,CAAC,  
OAAO,CAAC,KAAK,CAAC,KAAK,CAAC,CAAC,CAAC,CAAC;oBACpE,IAAI,QAAQ,CAAC,MAAM,KAAK,  
CAAC,EAAE;wBACzB,IAAI,CAAC,OAAO,CAAC,MAAM,CAAC,GAAG,CAAC,CAAC;wBACzB,IAAI,CAAC  
,eAAe,CAAC,MAAM,CAAC,GAAG,CAAC,CAAC;qBAClC;yBAAM;wBACL,IAAI,CAAC,OAAO,CAAC,GAA  
G,CAAC,GAAG,EAAE,QAAQ,CAAC,CAAC;qBACjC;iBACF;gBACD,MAAM;SACT;KACF;,,,IAKD,OAAO,C  
AAC,EAA4C;QACID,IAAI,CAAC,IAAI,EAAE,CAAC;QACZ,KAAK,CAAC,IAAI,CAAC,IAAI,CAAC,eAAe,C  
AAC,IAAI,EAAE,CAAC;aAClC,OAAO,CAAC,GAAG,IAAI,EAAE,CAAC,IAAI,CAAC,eAAe,CAAC,GAAG,C  
AAC,GAAG,CAAE,EAAE,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,CAAE,CAAC,CAAC,CAAC;KACj  
F;,,,AClQH;,,,,,AAuBA;,,,,,MAUa,oBAaOb;,,,,,IAM/B,SAAS,CAAC,GAAW;QACnB,OAAO,gBAAgB,CAA  
C,GAAG,CAAC,CAAC;KAC9B;,,,IAOD,WAAW,CAAC,KAAa;QACvB,OAAO,gBAAgB,CAAC,KAAK,CAA  
C,CAAC;KACbC;,,,IAOD,SAAS,CAAC,GAAW;QACnB,OAAO,kBAaKB,CAAC,GAAG,CAAC,CAAC;KACb  
C;,,,IAOD,WAAW,CAAC,KAAa;QACvB,OAAO,kBAaKB,CAAC,KAAK,CAAC,CAAC;KAClC;CACF;AAGD  
,SAAS,WAAW,CAAC,SAAiB,EAAE,KAAyB;IAC/D,MAAM,GAAG,GAAG,IAAI,GAAG,EAAoB,CAAC;IACx  
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No license file was found, but licenses were detected in source scan.

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{ "version": 3, "file": "upgrade.mjs", "sources": ["../..../..../packages/common/upgrade/src/utls.ts", "../..../..../packages/common/upgrade/src/location_shim.ts", "../..../..../packages/common/upgrade/src/params.ts", "../..../..../packages/common/upgrade/src/location_upgrade_module.ts", "../..../..../packages/common/upgrade/src/index.ts", "../..../..../packages/common/upgrade/public_api.ts", "../..../..../packages/common/upgrade/index.ts", "../..../..../packages/common/upgrade/upgrade.ts"], "sourcesContent": ["/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\n\nexport function stripPrefix(val: string, prefix: string): string {\n return val.startsWith(prefix) ? val.substring(prefix.length) : val;\n}\n\nexport function deepEqual(a: any, b: any): boolean {\n if (a === b) {\n return true;\n } else if (!a || !b) {\n return false;\n } else {\n try {\n if ((a.prototype !== b.prototype) || (Array.isArray(a) && Array.isArray(b))) {\n return false;\n }\n return JSON.stringify(a) === JSON.stringify(b);\n } catch (e) {\n return false;\n }\n }\n}\n\nexport function isAnchor(el: (Node & ParentNode) | Element | null): el is HTMLAnchorElement {\n return (<HTMLAnchorElement>el).href !== undefined;\n}\n\nexport function isPromise<T>(obj: any): obj is
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Promise<T> {\n // allow any Promise/A+ compliant thenable.\n // It's up to the caller to ensure that obj.then
conforms to the spec\n return !!obj && typeof obj.then === 'function';\n}\n\n", "/*\n * @license\n * Copyright
Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n
* found in the LICENSE file at https://angular.io/license\n */\n\nimport {Location, LocationStrategy,
PlatformLocation}

from '@angular/common';\nimport {UpgradeModule} from '@angular/upgrade/static';\nimport {ReplaySubject}
from 'rxjs';\nimport {UrlCodec} from './params';\nimport {deepEqual, isAnchor, isPromise} from './utils';\n\nconst
PATH_MATCH = /^(^?#*)(\?(^#*)?)?(#(.*)?)?$/;\nconst DOUBLE_SLASH_REGEX = /^\\s*[\\W\\w]{2,}/;\nconst
IGNORE_URI_REGEXP = /^\\s*(javascript|mailto):/i;\nconst DEFAULT_PORTS: {[key: string]: number} = {\n
'http:': 80,\n 'https:': 443,\n 'ftp:': 21\n};\n\n/**\n * Location service that provides a drop-in replacement for the
$location service\n * provided in AngularJS.\n * @see [Using the Angular Unified Location
Service](guide/upgrade#using-the-unified-angular-location-service)\n * @publicApi\n */\nexport class
$locationShim {\n private initializing = true;\n private updateBrowser = false;\n private $$absUrl: string = "";\n
private $$url: string = "";\n private $$protocol: string;\n private $$host: string = "";\n private $$port: number|null;\n
private $$replace: boolean = false;\n private $$path: string = "";\n private $$search: any = "";\n private $$hash:
string = "";\n private $$state: unknown;\n private $$changeListeners: [\n ((url: string, state: unknown, oldUrl:
string, oldState: unknown, err?: (e: Error) => void) => void),\n (e: Error) => void\n][] = [];\n\n private
cachedState: unknown = null;\n\n private urlChanges = new ReplaySubject<{newUrl: string, newState:
unknown}>(1);\n\n constructor(\n $injector: any, private location: Location, private platformLocation:
PlatformLocation,\n private urlCodec: UrlCodec, private locationStrategy: LocationStrategy) {\n const
initialUrl = this.browserUrl();\n\n let parsedUrl = this.urlCodec.parse(initialUrl);\n\n if (typeof parsedUrl ===
'string') {\n throw 'Invalid URL';\n }\n\n this.$$protocol = parsedUrl.protocol;\n this.$$host =
parsedUrl.hostname;\n this.$$port = parseInt(parsedUrl.port) || DEFAULT_PORTS[parsedUrl.protocol]
|| null;\n\n this.$$parseLinkUrl(initialUrl, initialUrl);\n this.cacheState();\n this.$$state =
this.browserState();\n\n this.location.onUrlChange((newUrl, newState) => {\n this.urlChanges.next({newUrl,
newState});\n });\n\n if (isPromise($injector)) {\n $injector.then($i => this.initialize($i));\n } else {\n
this.initialize($injector);\n }\n\n private initialize($injector: any) {\n const $rootScope =
$injector.get('$rootScope');\n const $rootElement = $injector.get('$rootElement');\n\n $rootElement.on('click',
(event: any) => {\n if (event.ctrlKey || event.metaKey || event.shiftKey || event.which === 2 ||\n
event.button === 2) {\n return;\n }\n\n let elm: (Node&ParentNode)|null = event.target;\n\n // traverse
the DOM up to find first A tag\n while (elm && elm.nodeName.toLowerCase() !== 'a') {\n // ignore
rewriting if no A tag (reached root element, or no parent - removed
from document)\n if (elm === $rootElement[0] || !(elm = elm.parentNode)) {\n return;\n }\n }\n\n if (!isAnchor(elm)) {\n return;\n }\n\n const absHref = elm.href;\n const relHref =
elm.getAttribute('href');\n\n // Ignore when url is started with javascript: or mailto:\n if
(IGNORE_URI_REGEXP.test(absHref)) {\n return;\n }\n\n if (absHref && !elm.getAttribute('target')
&& !event.isDefaultPrevented()) {\n if (this.$$parseLinkUrl(absHref, relHref)) {\n // We do a
preventDefault for all urls that are part of the AngularJS application,\n // in html5mode and also without, so
that we are able to abort navigation without\n // getting double entries in the location history.\n
event.preventDefault();\n // update location manually\n if (this.absUrl() !== this.browserUrl()) {\n
$rootScope.$apply();\n }\n }\n }\n }\n });\n\n this.urlChanges.subscribe(({newUrl, newState}) => {\n const oldUrl = this.absUrl();\n const oldState =
this.$$state;\n this.$$parse(newUrl);\n newUrl = this.absUrl();\n this.$$state = newState;\n const
defaultPrevented =\n $rootScope.$broadcast('$locationChangeStart', newUrl, oldUrl, newState, oldState)\n
.defaultPrevented;\n\n // if the location was changed by a `$locationChangeStart` handler then stop\n //
processing this location change\n if (this.absUrl() !== newUrl) return;\n\n // If default was prevented, set back
to old state. This is the state that was locally\n // cached in the $location service.\n if (defaultPrevented) {\n
this.$$parse(oldUrl);\n this.state(oldState);\n this.setBrowserUrlWithFallback(oldUrl, false, oldState);\n

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this.$$notifyChangeListeners(this.url(), this.$$state, oldUrl, oldState);\n } else {\n this.initializing = false;\n $rootScope.$broadcast('$locationChangeSuccess',\n newUrl, oldUrl, newState, oldState);\n this.resetBrowserUpdate();\n }\n if (!$rootScope.$$phase) {\n $rootScope.$digest();\n }\n // update browser\n $rootScope.$watch(() => {\n if (this.initializing ||\n this.updateBrowser) {\n this.updateBrowser = false;\n\n const oldUrl = this.browserUrl();\n const\n newUrl = this.absUrl();\n const oldState = this.browserState();\n let currentReplace = this.$$replace;\n\n const urlOrStateChanged =\n !this.urlCodec.areEqual(oldUrl, newUrl) || oldState !== this.$$state;\n\n // Fire location changes one time to on initialization. This must be done on the\n // next tick (thus inside\n $evalAsync()) in order for listeners to be registered\n // before the event fires. Mimicing behavior from\n $locationWatch:\n // https://github.com/angular/angular.js/blob/master/src/ng/location.js#L983\n if (this.initializing || urlOrStateChanged) {\n this.initializing = false;\n $rootScope.$evalAsync() =>\n {\n // Get the new URL again since it could have changed due to async update\n const newUrl =\n this.absUrl();\n const defaultPrevented =\n $rootScope\n .broadcast('$locationChangeStart', newUrl, oldUrl, this.$$state, oldState)\n .defaultPrevented;\n\n // if the location was changed by a `locationChangeStart` handler then stop\n // processing this location\n change\n if (this.absUrl() !== newUrl) return;\n if (defaultPrevented) {\n this.$$parse(oldUrl);\n this.$$state = oldState;\n } else {\n // This block doesn't run when\n initializing because it's going to perform the update to\n // the URL which shouldn't be needed when\n initializing.\n if (urlOrStateChanged) {\n this.setBrowserUrlWithFallback(\n newUrl, currentReplace, oldState === this.$$state ? null :\n this.$$state);\n this.$$replace = false;\n }\n $rootScope.$broadcast(\n '$locationChangeSuccess', newUrl, oldUrl, this.$$state, oldState);\n if (urlOrStateChanged) {\n this.$$notifyChangeListeners(this.url(), this.$$state, oldUrl, oldState);\n }\n }\n }\n this.$$replace = false;\n });\n }\n\n private resetBrowserUpdate() {\n this.$$replace = false;\n this.$$state = this.browserState();\n this.updateBrowser = false;\n this.lastBrowserUrl = this.browserUrl();\n }\n\n private lastHistoryState: unknown;\n private lastBrowserUrl: string = '';\n private browserUrl(): string;\n private browserUrl(url: string, replace?: boolean, state?: unknown): this;\n private browserUrl(url?: string, replace?:\n boolean,\n state?: unknown) {\n // In modern browsers `history.state` is `null` by default; treating it separately\n // from\n `undefined` would cause `$browser.url('/foo')` to change `history.state` to\n `undefined` via `pushState`. Instead,\n let's change `undefined` to `null` here.\n if (typeof state === 'undefined') {\n state = null;\n }\n // setter\n if (url) {\n let sameState = this.lastHistoryState === state;\n // Normalize the inputted URL\n url =\n this.urlCodec.parse(url).href;\n // Don't change anything if previous and current URLs and states match.\n if\n (this.lastBrowserUrl === url && sameState) {\n return this;\n }\n this.lastBrowserUrl = url;\n this.lastHistoryState = state;\n // Remove server base from URL as the Angular APIs for updating URL\n require\n // it to be the path+.\n url = this.stripBaseUrl(this.getServerBase(), url) || url;\n // Set the URL\n if (replace) {\n this.locationStrategy.replaceState(state, '', url);\n } else {\n this.locationStrategy.pushState(state, '', url,\n '');\n }\n this.cacheState();\n return this;\n }\n // getter\n if (this.platformLocation.href) {\n // This variable should be used *only* inside the cacheState function.\n private lastCachedState: unknown = null;\n private cacheState() {\n // This should be the only place in $browser\n where `history.state` is read.\n this.cachedState = this.platformLocation.getState();\n if (typeof this.cachedState\n === 'undefined') {\n this.cachedState = null;\n }\n // Prevent callbacks fo fire twice if both hashchange &\n popstate were fired.\n if (deepEqual(this.cachedState, this.lastCachedState)) {\n this.cachedState =\n this.lastCachedState;\n }\n this.lastCachedState = this.cachedState;\n this.lastHistoryState =\n this.cachedState;\n }\n /**\n * This function emulates the $browser.state()\n function from AngularJS. It will cause\n * history.state to be cached unless changed with deep equality check.\n */\n private browserState(): unknown {\n return this.cachedState;\n }\n private stripBaseUrl(base: string, url:

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string) {\n if (url.startsWith(base)) {\n return url.substr(base.length);\n }\n return undefined;\n}\n\nprivate getServerBase() {\n const {protocol, hostname, port} = this.platformLocation;\n const baseHref =\n this.locationStrategy.getBaseHref();\n let url = `${protocol}/${hostname}${port ? ':' + port : ''}${baseHref ||\n  '/'}`;\n return url.endsWith('/') ? url : url + '/';\n}\n\nprivate parseAppUrl(url: string) {\n if\n (DOUBLE_SLASH_REGEX.test(url)) {\n throw new Error(`Bad Path - URL cannot start with double slashes:\n  ${url}`);\n }\n let prefixed = (url.charAt(0) !== '/');\n if (prefixed) {\n url = '/' + url;\n }\n let match =\n this.urlCodec.parse(url, this.getServerBase());\n\n if (typeof match === 'string') {\n throw new Error(`Bad URL - Cannot parse URL: ${url}`);\n }\n let path\n =\n prefixed && match.pathname.charAt(0) === '/' ? match.pathname.substring(1) : match.pathname;\n this.$$path = this.urlCodec.decodePath(path);\n this.$$search = this.urlCodec.decodeSearch(match.search);\n this.$$hash = this.urlCodec.decodeHash(match.hash);\n // make sure path starts with '/'\n if (this.$$path &&\n this.$$path.charAt(0) !== '/') {\n this.$$path = '/' + this.$$path;\n }\n}\n\n/**\n * Registers listeners for\n URL changes. This API is used to catch updates performed by the\n * AngularJS framework. These changes are a\n subset of the `$locationChangeStart` and\n * `$locationChangeSuccess` events which fire when AngularJS updates\n its internally-referenced\n * version of the browser URL.\n *\n * It's possible for `$locationChange` events to\n happen, but for the browser URL\n * (window.location) to remain unchanged.\n\n This `onChange` callback will fire only when AngularJS\n * actually updates the browser URL\n (window.location).\n *\n * @param fn The callback function that is triggered for the listener when the URL\n changes.\n *\n * @param err The callback function that is triggered when an error occurs.\n */\n onChange(fn:\n (url: string, state: unknown, oldUrl: string, oldState: unknown) => void,\n err: (e: Error) => void = (e: Error) =>\n {})\n {\n this.$$changeListeners.push([fn, err]);\n }\n\n /** @internal */\n $notifyChangeListeners(url:\n string = "", state: unknown, oldUrl: string = "", oldState: unknown)\n {\n this.$$changeListeners.forEach([(fn, err)] =>\n {\n try {\n fn(url, state, oldUrl, oldState);\n } catch (e) {\n err(e as Error);\n }\n });\n }\n\n /**\n * Parses the provided URL, and sets the current URL to the parsed result.\n *\n * @param url The URL\n string.\n */\n $parse(url: string)\n {\n let pathUrl: string|undefined;\n\n if (url.startsWith('/')) {\n pathUrl = url;\n } else {\n // Remove protocol & hostname if URL starts with\n it\n pathUrl = this.stripBaseUrl(this.getServerBase(), url);\n }\n\n if (typeof pathUrl === 'undefined') {\n throw new Error(`Invalid url "${url}", missing path prefix "${this.getServerBase()}".`);\n }\n\n this.parseAppUrl(pathUrl);\n\n if (!this.$$path) {\n this.$$path = '/';\n }\n\n this.composeUrls();\n }\n\n /**\n * Parses the provided URL and its relative URL.\n *\n * @param url The full URL string.\n *\n * @param\n relHref A URL string relative to the full URL string.\n */\n $parseLinkUrl(url: string, relHref?: string|null):\n boolean\n {\n // When relHref is passed, it should be a hash and is handled separately\n if (relHref && relHref[0]\n === '#') {\n this.hash(relHref.slice(1));\n return true;\n }\n\n let rewrittenUrl;\n let appUrl =\n this.stripBaseUrl(this.getServerBase(), url);\n\n if (typeof appUrl !== 'undefined') {\n rewrittenUrl = this.getServerBase() + appUrl;\n } else if\n (this.getServerBase() === url + '/') {\n rewrittenUrl = this.getServerBase();\n }\n\n // Set the URL\n if\n (rewrittenUrl) {\n this.$parse(rewrittenUrl);\n }\n\n return !!rewrittenUrl;\n }\n\n private\n setBrowserUrlWithFallback(url: string, replace: boolean, state: unknown)\n {\n const oldUrl = this.url();\n const\n oldState = this.$$state;\n try {\n this.browserUrl(url, replace, state);\n }\n\n // Make sure $location.state()\n returns referentially identical (not just deeply equal)\n // state object; this makes possible quick checking if the\n state changed in the digest\n // loop. Checking deep equality would be too expensive.\n this.$$state =\n this.browserState();\n } catch (e) {\n // Restore old values if pushState fails\n this.url(oldUrl);\n this.$$state = oldState;\n }\n\n throw e;\n}\n}\n\nprivate composeUrls()\n {\n this.$$url = this.urlCodec.normalize(this.$$path, this.$$search, this.$$hash);\n this.$$absUrl =\n this.getServerBase() + this.$$url.substr(1); // remove '/' from front of URL\n this.updateBrowser = true;\n }\n\n /**\n * Retrieves the full URL representation with all segments encoded according to\n * rules specified in\n * [RFC 3986](https://tools.ietf.org/html/rfc3986).\n *\n * * `js` * // given URL\n http://example.com/#/some/path?foo=bar&baz=xoxo\n * let absUrl = $location.absUrl();\n * // =>

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"http://example.com/#/some/path?foo=bar&baz=xoxo"
this.$absUrl();
}

/**
 * Retrieves the current URL, or sets a new URL. When setting a URL,
 * changes the path, search, and hash, and returns a reference to its own instance.
 *
 * @param {string} url given URL
 *
 * @return {this}
 */
http://example.com/#/some/path?foo=bar&baz=xoxo
let url = $location.url();
// =>
"/some/path?foo=bar&baz=xoxo"

/**
 * url(): string;
 * url(url: string): this;
 * url(url?: string): string;
 *
 * if (typeof url === 'string') {
 * if (!url.length) {
 * url = '/';
 * }
 * const match = PATH_MATCH.exec(url);
 * if (!match) return this;
 * if (match[1] || url === "") this.path(this.urlCodec.decodePath(match[1]));
 * if (match[2] || match[1] || url === "") this.search(match[3] || "");
 * this.hash(match[5] || "");
 * // Chainable method
 * return this;
 * }
 * return this.$url();
}

/**
 * Retrieves the protocol of the current URL.
 *
 * @param {string} url given URL
 *
 * @return {string}
 */
http://example.com/#/some/path?foo=bar&baz=xoxo
let protocol = $location.protocol();
// => "http"

/**
 * protocol(): string;
 *
 * return this.$protocol();
}

/**
 * Retrieves the protocol of the current URL.
 *
 * In contrast to the non-AngularJS version `location.host` which returns `hostname:port`, this
 * returns the `hostname` portion only.
 *
 * @param {string} url given URL
 *
 * @return {string}
 */
http://example.com/#/some/path?foo=bar&baz=xoxo
let host = $location.host();
// => "example.com"

/**
 * given URL http://user:password@example.com:8080/#/some/path?foo=bar&baz=xoxo
 * host = $location.host();
 * // => "example.com"
 * host = location.host;
 * // => "example.com:8080"
}

/**
 * host(): string;
 *
 * return this.$host();
}

/**
 * Retrieves the port of the current URL.
 *
 * @param {string} url given URL
 *
 * @return {number}
 */
http://example.com/#/some/path?foo=bar&baz=xoxo
let port = $location.port();
// => 80

/**
 * port(): number;
 *
 * return this.$port();
}

/**
 * Retrieves the path of the current URL, or changes the path and returns a reference to its own instance.
 * Paths should always begin with forward slash (/). This method adds the forward slash if it is missing.
 *
 * @param {string} url given URL
 *
 * @return {this}
 */
http://example.com/#/some/path?foo=bar&baz=xoxo
let path = $location.path();
// => "/some/path"

/**
 * path(): string;
 * path(path: string|number|null): this;
 * path(path?: string|number|null): string;
 *
 * if (typeof path === 'undefined') {
 * return this.$path();
 * }
 * // null path converts to empty string. Prepend with "/" if needed.
 * path = path !== null ? path.toString() : "";
 * path = path.charAt(0) === '/' ? path : '/' + path;
 * this.$path = path;
 * this.composeUrls();
 * return this;
}

/**
 * Retrieves a map of the search parameters of the current URL, or changes a search part and returns a reference to its own instance.
 *
 * @param {string} url given URL
 *
 * @return {Object}
 */
http://example.com/#/some/path?foo=bar&baz=xoxo
let searchObject = $location.search();
// => {foo: 'bar', baz: 'xoxo'}

/**
 * set foo to 'yipee'
 * $location.search('foo', 'yipee');
 * // $location.search()
 * => {foo: 'yipee', baz: 'xoxo'}
}

/**
 * @param {string|Object.<string>|Object.<Array.<string>>}} search
 * New search params - string or hash object.
 *
 * When called with a single argument the method acts as a setter, setting the `search` component of `$location` to the specified value.
 *
 * If the argument is a hash object containing an array of values, these values will be encoded as duplicate search parameters in the URL.
 *
 * @param {(string|Number|Array.<string>|boolean)=} paramValue If `search` is a string or number,
 * then `paramValue` will override only a single search property.
 *
 * If `paramValue` is an array, it will override the property of the `search` component of `$location` specified via the first argument.
 *
 * If `paramValue` is `null`, the property specified via the first argument will be deleted.
 *
 * If `paramValue` is `true`, the property specified via the first argument will be added with no value nor trailing equal sign.
 *
 * @return {Object} The parsed `search` object of the current URL, or the changed `search` object.
 */
search(): {[key: string]: unknown};
search(search: string|number|{[key: string]: unknown}): this;
search(search: string|number|{[key: string]: unknown}, paramValue: null|undefined|string|number|boolean|string[]): this;
search(search?: string|number|{[key: string]: unknown}, paramValue?: null|undefined|string|number|boolean|string[]): {[key: string]: unknown};

switch (arguments.length) {
 case 0:
 return this.$search;
 case 1:
 if (typeof search === 'string' || typeof search === 'number') {
 this.$search = this.urlCodec.decodeSearch(search.toString());
 }
 }
}

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} else if (typeof search === 'object' && search !== null) {\n // Copy the object so it's never mutated\nsearch = {...search};\n // remove object\n undefined or null properties\n for (const key in search) {\n if (search[key] == null) delete\nsearch[key];\n }\n this.$$search = search;\n } else {\n throw new Error(\n'LocationProvider.search(): First argument must be a string or an object.);\n }\n break;\n default:\nif (typeof search === 'string') {\n const currentSearch = this.search();\n if (typeof paramValue ===\n'undefined' || paramValue === null) {\n delete currentSearch[search];\n return\nthis.search(currentSearch);\n } else {\n currentSearch[search] = paramValue;\n return\nthis.search(currentSearch);\n }\n }\n }\n this.composeUrls();\n return this;\n}\n\n/**\n * Retrieves the current hash fragment, or changes the hash fragment and returns a reference to\n * its own instance.\n *\n * ``js\n * // given URL http://example.com/#/some/path?foo=bar&baz=xoxo#hashValue\n * let hash = $location.hash();\n * // => \"hashValue\"\n */\n * hash(): string;\n * hash(hash:\nstring|number|null): this;\n * hash(hash?: string|number|null): string|this {\n * if (typeof hash === 'undefined') {\nreturn this.$$hash;\n * }\n * this.$$hash = hash !== null ? hash.toString() : '';\n * this.composeUrls();\n * return\nthis;\n * }\n\n /**\n * Changes to `location` during the current `$digest` will replace the current\n * history record, instead of adding a new one.\n *\n * replace(): this {\n * this.$$replace = true;\n * return this;\n * }\n\n /**\n * Retrieves the history state object when called without any parameter.\n *\n * Change the history state object when called with one parameter and return `location`.\n *\n * The state object is later passed to `pushState` or `replaceState`.\n *\n * This method is supported only in HTML5 mode and only in browsers supporting\n * the HTML5 History\n\nAPI methods such as `pushState` and `replaceState`. If you need to support\n * older browsers (like Android < 4.0), don't use this method.\n *\n */\n * state(): unknown;\n * state(state: unknown): this;\n * state(state?: unknown): unknown|this {\n * if (typeof state === 'undefined') {\nreturn this.$$state;\n * }\n * this.$$state = state;\n * return this;\n * }\n\n /**\n * The factory function used to create an instance of the `LocationShim` in Angular,\n * and provides an API-compatible `LocationProvider` for AngularJS.\n *\n * @publicApi\n */\nexport class\n$locationShimProvider {\n constructor(\n private ngUpgrade: UpgradeModule, private location: Location,\n private platformLocation: PlatformLocation, private urlCodec: UrlCodec,\n private locationStrategy:\nLocationStrategy) {\n }\n\n /**\n * Factory method that returns an instance of the $locationShim\n */\n $get() {\nreturn new $locationShim(\n this.ngUpgrade.$injector, this.location,\n this.platformLocation, this.urlCodec,\n this.locationStrategy);\n }\n\n /**\n * Stub method used to keep API compatible with AngularJS. This setting is configured through\n * the LocationUpgradeModule's `config` method in your Angular app.\n */\n hashPrefix(prefix?: string) {\n throw new Error('Configure LocationUpgrade through\nLocationUpgradeModule.config method.);\n }\n\n /**\n * Stub method used to keep API compatible with AngularJS. This setting is configured through\n * the LocationUpgradeModule's `config` method in your Angular app.\n */\n html5Mode(mode?: any) {\n throw new Error('Configure LocationUpgrade through\nLocationUpgradeModule.config method.);\n }\n}\n\n /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n /**\n * A codec for encoding and decoding URL parts.\n *\n * @publicApi\n */\nexport abstract class UrlCodec {\n /**\n * Encodes the path from the provided string\n *\n * @param path\nThe path string\n */\n abstract encodePath(path: string): string;\n\n /**\n * Decodes the path from the provided string\n *\n * @param path\nThe path string\n */\n abstract decodePath(path: string): string;\n\n /**\n * Encodes the search string from the provided string or object\n *\n * @param path\nThe path string or object\n */\n abstract encodeSearch(search: string|{[k: string]: unknown}): string;\n\n /**\n * Decodes the search objects from the provided string\n *\n * @param path\nThe path string\n */\n abstract decodeSearch(search: string): {[k: string]: unknown};\n\n /**\n * Encodes the hash from the provided string\n *\n * @param path\nThe hash string\n */\n abstract encodeHash(hash: string): string;\n\n /**\n * Decodes the hash from the provided string\n *\n * @param path\nThe hash string\n */\n abstract decodeHash(hash:

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string): string;\n\n /**\n * Normalizes the URL from the provided string\n *\n * @param path The URL
string\n */\n abstract normalize(href: string): string;\n\n /**\n * Normalizes the URL from the provided string,
search, hash, and base URL parameters\n *\n * @param path The URL path\n * @param search The search
object\n * @param hash The has string\n * @param baseUrl The base URL for the URL\n */\n abstract
normalize(path: string, search: {[k: string]: unknown}, hash: string, baseUrl?: string): string;\n\n /**\n *
Checks whether the two strings are equal\n *\n * @param valA First string for comparison\n * @param valB Second
string for comparison\n */\n abstract areEqual(valA: string, valB: string): boolean;\n\n /**\n * Parses the URL
string based on the base URL\n *\n * @param url The full URL string\n * @param base The base for the URL\n
*/\n abstract parse(url: string, base?: string): {\n href: string,\n protocol: string,\n
host: string,\n search: string,\n hash: string,\n hostname: string,\n port: string,\n pathname: string\n
};\n}\n\n/**\n * A `UrlCodec` that uses logic from AngularJS to serialize and parse URLs\n * and URL
parameters.\n *\n * @publicApi\n */\nexport class AngularJSUrlCodec implements UrlCodec {\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L15\n encodePath(path: string): string {\n
const segments = path.split('/');\n let i = segments.length;\n\n while (i--) {\n // decode forward slashes to
prevent them from being double encoded\n segments[i] = encodeUriSegment(segments[i].replace(/%2F/g, ''));\n
}\n\n path = segments.join('/');\n return _stripIndexHtml((path && path[0] !== '/' && '/' || '') + path);\n }\n\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L42\n encodeSearch(search: string|{[k:
string]: unknown}): string {\n if (typeof search === 'string') {\n search =
parseKeyValue(search);\n }\n\n search = toKeyValue(search);\n return search ? '?' + search : '';\n }\n\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L44\n encodeHash(hash: string) {\n hash =
encodeUriSegment(hash);\n return hash ? '#' + hash : '';\n }\n\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L27\n decodePath(path: string, html5Mode =
true): string {\n const segments = path.split('/');\n let i = segments.length;\n\n while (i--) {\n segments[i] =
decodeURIComponent(segments[i]);\n if (html5Mode) {\n // encode forward slashes to prevent them from
being mistaken for path separators\n segments[i] = segments[i].replace(/\\/g, '%2F');\n }\n }\n\n return
segments.join('/');\n }\n\n // https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L72\n
decodeSearch(search: string) {\n return parseKeyValue(search);\n }\n\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L73\n
decodeHash(hash: string) {\n hash = decodeURIComponent(hash);\n return hash[0] === '#' ? hash.substring(1)
: hash;\n }\n\n // https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L149\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L42\n normalize(href: string): string;\n
normalize(path: string, search: {[k: string]: unknown}, hash: string, baseUrl?: string): string;\n
normalize(pathOrHref: string, search?: {[k: string]: unknown}, hash?: string, baseUrl?: string):\n string {\n if
(arguments.length === 1) {\n const parsed = this.parse(pathOrHref, baseUrl);\n\n if (typeof parsed ===
'string') {\n return parsed;\n }\n\n const serverUrl =\n
`$${parsed.protocol}://${parsed.hostname}$${parsed.port ? ':' + parsed.port : ''}`;\n\n return this.normalize(\n
this.decodePath(parsed.pathname), this.decodeSearch(parsed.search),\n
this.decodeHash(parsed.hash), serverUrl);\n } else {\n const encPath = this.encodePath(pathOrHref);\n
const encSearch = search && this.encodeSearch(search) || '';\n const encHash = hash && this.encodeHash(hash)
|| '';\n\n let joinedPath = (baseUrl || '') + encPath;\n\n if (!joinedPath.length || joinedPath[0] !== '/') {\n
joinedPath = '/' + joinedPath;\n }\n\n return joinedPath + encSearch + encHash;\n }\n }\n\n areEqual(valA:
string, valB: string) {\n return this.normalize(valA) === this.normalize(valB);\n }\n\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/urlUtils.js#L60\n parse(url: string, base?: string) {\n try
{\n // Safari 12 throws an error when the URL constructor is called with an undefined base.\n const parsed =
!base ? new URL(url) : new URL(url, base);\n return {\n href: parsed.href,\n protocol: parsed.protocol ?
parsed.protocol.replace(/:$/, '') : '',\n host: parsed.host,\n
search: parsed.search ? parsed.search.replace(/^\\?/, '') : '',\n hash: parsed.hash ? parsed.hash.replace(/^\\#/, '')
: '',\n hostname: parsed.hostname,\n port: parsed.port,\n pathname: (parsed.pathname.charAt(0) === '/')

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? parsed.pathname : '/' + parsed.pathname\n }\n } catch (e) {\n throw new Error(`Invalid URL (${url}) with
base (${base}))`);\n }\n}\n\nfunction _stripIndexHtml(url: string): string {\n return
url.replace(/\\/index.html$/, '');\n}\n\n/**\n * Tries to decode the URI component without throwing an exception.\n
*\n * @param str value potential URI component to check.\n * @returns the decoded URI if it can be decoded or
else `undefined`.\n */\nfunction tryDecodeURIComponent(value: string): string|undefined {\n try {\n return
decodeURIComponent(value);\n } catch (e) {\n // Ignore any invalid uri component.\n return undefined;\n
}\n}\n\n/**\n * Parses an escaped url query string into key-value pairs.
\n\nLogic taken from\n * https://github.com/angular/angular.js/blob/864c7f0/src/Angular.js#L1382\n */\nfunction
parseKeyValue(keyValue: string): {[k: string]: unknown} {\n const obj: {[k: string]: unknown} = {};\n (keyValue
|| '').split('&').forEach((keyValue) => {\n let splitPoint, key, val;\n if (keyValue) {\n key =
keyValue.replace(/\\+/g, '%20');\n splitPoint = keyValue.indexOf('=');\n if (splitPoint !== -1) {\n key =
keyValue.substring(0, splitPoint);\n val = keyValue.substring(splitPoint + 1);\n }\n key =
tryDecodeURIComponent(key);\n if (typeof key !== 'undefined') {\n val = typeof val !== 'undefined' ?
tryDecodeURIComponent(val) : true;\n if (!obj.hasOwnProperty(key)) {\n obj[key] = val;\n }
else if (Array.isArray(obj[key])) {\n (obj[key] as unknown[]).push(val);\n } else {\n obj[key] =
[obj[key], val];\n }\n }\n }\n });\n return obj;\n}\n\n/**\n * Serializes into key-value pairs. Logic taken from\n
*\n\nhttps://github.com/angular/angular.js/blob/864c7f0/src/Angular.js#L1409\n */\nfunction toKeyValue(obj: {[k:
string]: unknown}) {\n const parts: unknown[] = [];\n for (const key in obj) {\n let value = obj[key];\n if
(Array.isArray(value)) {\n value.forEach((arrayValue) => {\n parts.push(\n encodeUriQuery(key,
true) +\n (arrayValue === true ? " : '=' + encodeUriQuery(arrayValue, true));\n });\n }
else {\n parts.push(\n encodeUriQuery(key, true) +\n (value === true ? " : '=' +
encodeUriQuery(value as any, true));\n);\n }\n }\n }\n return parts.length ? parts.join('&') :
'';\n}\n\n/**\n * We need our custom method because encodeURIComponent is too aggressive and doesn't follow\n *
https://tools.ietf.org/html/rfc3986 with regards to the character set (pchar) allowed in path\n * segments:\n *
segment = *pchar\n * pchar = unreserved / pct-encoded\n * sub-delims / \":\" / \"@\" \n * pct-encoded = \"%\" HEXDIG HEXDIG\n * unreserved = ALPHA / DIGIT /
\"-\" / \"_\" / \".\" / \"~\" \n * sub-delims = \"!\" / \"$\" / \"%\" / \"&\" / \"'\" / \"(\" / \")\" / \"^\" / \"`\" / \"|\" \n *
Logic from https://github.com/angular/angular.js/blob/864c7f0/src/Angular.js#L1437\n */\nfunction encodeUriSegment(val: string) {\n return encodeUriQuery(val, true).replace(/%26/g,
'&').replace(/%3D/gi, '=').replace(/%2B/gi, '+');\n}\n\n/**\n * This method is intended for encoding *key* or
value parts of query component. We need a custom\n * method because encodeURIComponent is too aggressive
and encodes stuff that doesn't have to be\n * encoded per https://tools.ietf.org/html/rfc3986:\n *
query = *(\n * pchar / \"^\" / \"?\" \n * pchar = unreserved / pct-encoded / sub-delims / \":\" / \"@\" \n * unreserved =
ALPHA / DIGIT / \"-\" / \"_\" / \".\" / \"~\" \n * pct-encoded = \"%\" HEXDIG HEXDIG\n * sub-delims = \"!\" / \"$\" / \"%\" / \"&\" / \"'\" / \"(\" / \")\" / \"^\" / \"`\" / \"|\" \n *
Logic from\n\nhttps://github.com/angular/angular.js/blob/864c7f0/src/Angular.js#L1456\n */\nfunction encodeUriQuery(val:
string, pctEncodeSpaces: boolean = false) {\n return encodeURIComponent(val)\n .replace(/%40/g, '@')\n .replace(/%3A/gi, ':')\n .replace(/%24/g, '$')\n .replace(/%2C/gi, ',')\n .replace(/%3B/gi, ';')\n .replace(/%20/g, (pctEncodeSpaces ? '%20' : '+'));\n}\n\n/**\n * @license\n * Copyright Google LLC All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport {APP_BASE_HREF, CommonModule, HashLocationStrategy, Location, LocationStrategy, PathLocationStrategy, PlatformLocation} from
'@angular/common';\nimport {Inject, InjectionToken, ModuleWithProviders, NgModule, Optional} from '@angular/core';\nimport {UpgradeModule} from '@angular/upgrade/static';\nimport
{$locationShim, $locationShimProvider} from './location_shim';\nimport {AngularJSUrlCodec, UrlCodec} from './params';\n\n/**\n * Configuration options for LocationUpgrade.\n *\n * @publicApi\n */\nexport interface

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LocationUpgradeConfig {\n /**\n * Configures whether the location upgrade module should use the
`HashLocationStrategy`\n * or the `PathLocationStrategy`\n */\n useHash?: boolean;\n /**\n * Configures the
hash prefix used in the URL when using the `HashLocationStrategy`\n */\n hashPrefix?: string;\n /**\n *
Configures the URL codec for encoding and decoding URLs. Default is the `AngularJSCodec`\n */\n urlCodec?:
typeof UrlCodec;\n /**\n * Configures the base href when used in server-side rendered applications\n */\n
serverBaseHref?: string;\n /**\n * Configures the base href when used in client-side rendered applications\n */\n
appBaseHref?: string;\n}\n\n/**\n
* A provider token used to configure the location upgrade module.\n */\n * @publicApi\n */\nexport const
LOCATION_UPGRADE_CONFIGURATION =\n new
InjectionToken<LocationUpgradeConfig>('LOCATION_UPGRADE_CONFIGURATION');\n\nconst
APP_BASE_HREF_RESOLVED = new InjectionToken<string>('APP_BASE_HREF_RESOLVED');\n\n/**\n *
`NgModule` used for providing and configuring Angular's Unified Location Service for upgrading.\n */\n * @see
[Using the Unified Angular Location Service](guide/upgrade#using-the-unified-angular-location-service)\n */\n *
@publicApi\n */\n@NgModule({imports: [CommonModule]})\nexport class LocationUpgradeModule {\n static
config(config?: LocationUpgradeConfig): ModuleWithProviders<LocationUpgradeModule> {\n return {\n
ngModule: LocationUpgradeModule,\n providers: [\n Location,\n {\n provide: $locationShim,\n
useFactory: provide$location,\n deps: [UpgradeModule, Location, PlatformLocation, UrlCodec,
LocationStrategy]\n },\n {\n provide: LOCATION_UPGRADE_CONFIGURATION, useValue: config ? config : {}},\n
{\n provide: UrlCodec, useFactory: provideUrlCodec, deps: [LOCATION_UPGRADE_CONFIGURATION]},\n
{\n provide: APP_BASE_HREF_RESOLVED,\n useFactory: provideAppBaseHref,\n deps:
[LOCATION_UPGRADE_CONFIGURATION, [new Inject(APP_BASE_HREF), new Optional()]]\n },\n
{\n provide: LocationStrategy,\n useFactory: provideLocationStrategy,\n deps: [\n
PlatformLocation,\n APP_BASE_HREF_RESOLVED,\n
LOCATION_UPGRADE_CONFIGURATION,\n]\n },\n],\n },\n];\n }\n}\n\nexport function
provideAppBaseHref(config: LocationUpgradeConfig, appBaseHref?: string) {\n if (config &&
config.appBaseHref != null) {\n return config.appBaseHref;\n } else if (appBaseHref != null) {\n return
appBaseHref;\n }\n return ";\n}\n\nexport function provideUrlCodec(config: LocationUpgradeConfig)
{\n const codec = config && config.urlCodec || AngularJSUrlCodec;\n return new (codec as any)();\n}\n\nexport
function provideLocationStrategy(\n platformLocation: PlatformLocation, baseHref: string, options:
LocationUpgradeConfig = {}) {\n return options.useHash ? new HashLocationStrategy(platformLocation,
baseHref) :\n new PathLocationStrategy(platformLocation, baseHref);\n}\n\nexport function
provide$location(\n ngUpgrade: UpgradeModule, location: Location, platformLocation: PlatformLocation,\n
urlCodec: UrlCodec, locationStrategy: LocationStrategy) {\n const $locationProvider =\n new
$locationShimProvider(ngUpgrade, location, platformLocation, urlCodec, locationStrategy);\n\n return
$locationProvider.$get();\n}\n\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n */\n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\nexport
{$locationShim, $locationShimProvider} from './location_shim';\n\nexport
{LOCATION_UPGRADE_CONFIGURATION, LocationUpgradeConfig, LocationUpgradeModule} from
'./location_upgrade_module';\n\nexport {AngularJSUrlCodec, UrlCodec} from './params';\n\n", "/*\n * @license\n *
Copyright Google LLC All Rights Reserved.\n */\n * Use of this source code is governed by an MIT-style license
that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n/*\n * @module\n * @description\n
* Entry point for all public APIs of this package.\n */\n\nexport * from './src/index';\n\n// This file only reexports
content of the `src` folder. Keep it that way.\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n
*/\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\n// This file is not used to build this module. It is only used during editing\n// by the
TypeScript language service and during

```

build for verification. `ngc`\\n// replaces this file with production index.ts when it rewrites private symbol\\n//  
names.\\n\\nexport \* from './public\_api';\\n"/\*\*\\n \* Generated bundle index. Do not edit.\\n \*/\\n\\nexport \* from  
 './index';\\n"], "names": [], "mappings": ";;;;;;;;;;AAAA;;;;;;;;;SAQgB,WAaw,CAAC,GAaw,EAAE,MAAc;IACrD,O  
AAO,GAAG,CAAC,UAAU,CAAC,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,CAAC,MAAM,CAAC,MAAM,  
CAAC,GAAG,GAAG,CAAC;AACrE,CAAC;SAEe,SAAS,CAAC,CAAM,EAAE,CAAM;IACtC,IAAI,CAAC,KA  
AK,CAAC,EAAE;QACX,OAAO,IAAI,CAAC;KACb;SAAM,IAAI,CAAC,CAAC,IAAI,CAAC,CAAC,EAAE;QA  
CnB,OAAO,KAAK,CAAC;KACd;SAAM;QACL,IAAI;YACF,IAAI,CAAC,CAAC,CAAC,SAAS,KAAK,CAAC,  
CAAC,SAAS,MAAM,KAAK,CAAC,OAAO,CAAC,CAAC,CAAC,IAAI,KAAK,CAAC,OAAO,CAAC,CAAC,C  
AAC,CAAC,EAAE;gBAC3E,OAAO,KAAK,CAAC;aACd;YACD,OAAO,IAAI,CAAC,SAAS,CAAC,CAAC,CAA  
C,KAAK,IAAI,CAAC,SAAS,CAAC,CAAC,CAAC,CAAC;SACbD;QAAC,OAAO,CAAC,EAAE;YACV,OAAO,  
KAAK,CAAC;SACd;KACF;AACH,CAAC;SAEe,QAAQ,CAAC,EAAkC;IACzD,OAA2B,EAAG,CAAC,IAAI,K  
AAK,SAAS,CAAC;AACpD,CAAC;SAEe,SAAS,CAAU,GAAG;IAGzC,OAAO,CAAC,CAAC,GAAG,IAAI,OA  
AO,GAAG,CAAC,IAAI,KAAK,UAAU,CAAC;AACjD;ACrCA;;;;;;;;;AAeA,MAAM,UAAU,GAAG,gCAAgC,CA  
AC;AACpD,MAAM,kBAaKb,GAAG,eAAe,CAAC;AAC3C,MAAM,iBAaIB,GAAG,2BAa2B,CAAC;AACtD,M  
AAM,aAAa,GAA4B;IAC7C,OAAO,EAAE,EAAE;IACX,QAAQ,EAAE,GAAG;IACb,MAAM,EAAE,EAAE;CAC  
X,CAAC;AAEF;;;;;;;;;MAQa,aAAa;IAuBxB,YACI,SAAc,EAAU,QAAkC,EAAU,gBAaKc,EAC9E,QAAkC,EAA  
U,gBAaKc;QAD9C,aAAQ,GAAR,QAAQ,CAAU;QAAU,qBAAGb,GAAhB,gBAAGb,CAAKb;QAC9E,aAAQ,G  
AAR,QAAQ,CAAU;QAAU,qBAAGb,GAAhB,gBAAGb,CAAKb;QAxBlE,gBAAW,GAAG,IAAI,CAAC;QACnB,  
kBAaA,GAAG,KAAK,CAAC;QACtB,aAAQ,GAAG,EAAE,CAAC;QACtB,UAAK,GAAG,EAAE,CAAC;QAEh  
B,WAAM,GAAG,EAAE,CAAC;QAEpB,cAAS,GAAY,KAAK,CAAC;QAC3B,WAAM,GAAG,EAAE,CAAC;Q  
ACpB,aAAQ,GAAG,EAAE,CAAC;QACnB,WAAM,GAAG,EAAE,CAAC;QAEpB,sBAaIB,GAInB,EAAE,CAA  
C;QAEH,gBAAW,GAAY,IAAI,CAAC;QAE5B,eAAU,GAAG,IAAI,aAAa,CAAsC,CAAC,CAAC,CAAC;QA6Kv  
E,mBAAC,GAAG,EAAE,CAAC;;QA8C5B,oBAaE,GAAY,IAAI,CAAC;QAtNtC,MAAM,UAAU,GAAG,IAAI,C  
AAC,UAAU,EAAE,CAAC;QAErC,IAAI,SAAS,GAAG,IAAI,CAAC,QAAQ,CAAC,KAAK,CAAC,UAAU,CAAC  
,CAAC;QAEhD,IAAI,OAAO,SAAS,KAAK,QAAQ,EAAE;YACjC,MAAM,aAAa,CAAC;SACrB;QAEH,IAAI,CA  
AC,UAAU,GAAG,SAAS,CAAC,QAAQ,CAAC;QACrC,IAAI,CAAC,MAAM,GAAG,SAAS,CAAC,QAAQ,CAA  
C;QACjC,IAAI,CAAC,MAAM,GAAG,QAAQ,CAAC,SAAS,CAAC,IAAI,CAAC,IAAI,aAAa,CAAC,SAAS,CAA  
C,QAAQ,CAAC,IAAI,IAAI,CAAC;QAEpF,IAAI,CAAC,cAAc,CAAC,UAAU,EAAE,UAAU,CAAC,CAAC;QAC  
5C,IAAI,CAAC,UAAU,EAAE,CAAC;QACIB,IAAI,CAAC,OAAO,GAAG,IAAI,CAAC,YAAY,EAAE,CAAC;Q  
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,CAAC,SAAS,CAAC,EAAE;YACxB,SAAS,CAAC,IAAI,CAAC,EAAE,IAAI,IAAI,CAAC,UAAU,CAAC,EAAE,  
CAAC,CAAC,CAAC;SAC3C;aAAM;YACL,IAAI,CAAC,UAAU,CAAC,SAAS,CAAC,CAAC;SAC5B;KACF;IA  
EO,UAAU,CAAC,SAAC;QAC/B,MAAM,UAAU,GAAG,SAAS,CAAC,GAAG,CAAC,YAAY,CAAC,CAAC;QA  
C/C,MAAM,YAAY,GAAG,SAAS,CAAC,GAAG,CAAC,cAAc,CAAC,CAAC;QAEhD,YAAY,CAAC,EAAE,CA  
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AAC,QAAQ,IAAI,KAAK,CAAC,KAAK,KAAK,CAAC;gBACrE,KAAK,CAAC,MAAM,KAAK,CAAC,EAAE;g  
BACtB,OAAO;aACR;YAED,IAAI,GAAG,GAA2B,KAAK,CAAC,MAAM,CAAC;;YAG/C,OAAO,GAAG,IAAI,  
GAAG,CAAC,QAAQ,CAAC,WAAG,EAAE,KAAK,GAAG,EAAE;;gBAEhD,IAAI,GAAG,KAAK,YAAY,CAA  
C,CAAC,CAAC,IAAI,EAAE,GAAG,GAAG,GAAG,CAAC,UAAU,CAAC,EAAE;oBACtD,OAAO;iBACR;aACF;  
YAED,IAAI,CAAC,QAAQ,CAAC,GAAG,CAAC,EAAE;gBACIB,OAAO;aACR;YAED,MAAM,OAAO,GAAG,  
GAAG,CAAC,IAAI,CAAC;YACzB,MAAM,OAAO,GAAG,GAAG,CAAC,YAAY,CAAC,MAAM,CAAC,CAAC;  
;YAGzC,IAAI,iBAaIB,CAAC,IAAI,CAAC,OAAO,CAAC,EAAE;gBACnC,OAAO;aACR;YAED,IAAI,OAAO,IA  
AI,CAAC,GAAG,CAAC,YAAY,CAAC,QAAQ,CAAC,IAAI,CAAC,KAAK,CAAC,kBAaKb,EAAE,EAAE;gBA  
CzE,IAAI,IAAI,CAAC,cAAc,CAAC,OAAO,EAAE,OAAO,CAAC,EAAE;;oBAIzC,KAAK,CAAC,cAAc,EAAE,  
CAAC;;oBAEvB,IAAI,IAAI,CAAC,MAAM,EAAE,KAAK,IAAI,CAAC,UAAU,EAAE,EAAE;wBACvC,UAAU,  
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EAAE,CAAC;YAC7B,MAAM,QAAQ,GAAG,IAAI,CAAC,OAAO,CAAC;YAC9B,IAAI,CAAC,OAAO,CAAC,  
 MAAM,CAAC,CAAC;YACrB,MAAM,GAAG,IAAI,CAAC,MAAM,EAAE,CAAC;YACvB,IAAI,CAAC,OAAO,  
 GAAG,QAAQ,CAAC;YACxB,MAAM,gBAAGB,GACIB,UAAU,CAAC,UAAU,CAAC,sBAAsB,EAAE,MAAM,  
 EAAE,MAAM,EAAE,QAAQ,EAAE,QAAQ,CAAC;iBAC5E,gBAAGB,CAAC;;;YAI1B,IAAI,IAAI,CAAC,MAA  
 M,EAAE,KAAK,MAAM;gBAAE,OAAO;;;YAIrC,IAAI,gBAAGB,EAAE;gBACpB,IAAI,CAAC,OAAO,CAAC,M  
 AAM,CAAC,CAAC;gBACrB,IAAI,CAAC,KAAK,CAAC,QAAQ,CAAC,CAAC;gBACrB,IAAI,CAAC,yBAAYB,  
 CAAC,MAAM,EAAE,KAAK,EAAE,QAAQ,CAAC,CAAC;gBACxD,IAAI,CAAC,uBAABuB,CAAC,IAAI,CAAC,  
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Found  
in path(s):  
\* /common-13-2-7-tgz/package/fesm2015/upgrade.mjs.map  
No license file was found, but licenses were detected in source scan.

```
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`PlatformLocation` encapsulates all calls to DOM APIs, which allows the Router to be a platform-agnostic. This means that we can have different implementation of `PlatformLocation` for the different platforms that Angular supports. For example, `@angular/platform-browser` provides an implementation specific to the browser environment, while `@angular/platform-server` provides one suitable for use with server-side rendering.

The `PlatformLocation` class is used directly by all implementations of {@link LocationStrategy} when they need to interact with the DOM APIs like pushState, popState, etc. {@link LocationStrategy} in turn is used by the {@link Location} service which is used directly by the {@link Router} in order to navigate between routes. Since all interactions between {@link Router} / {@link Location} / {@link LocationStrategy} and DOM APIs flow through the `PlatformLocation` class, they are all platform-agnostic.

```

@publicApi
@Injectable({
 providedIn: 'platform',
 // See #23917
 useFactory: useBrowserPlatformLocation
})
export abstract class PlatformLocation {
 abstract
 getBaseHrefFromDOM():
 string;
 abstract getState(): unknown;
 /**
 * Returns a function that, when executed, removes the `popstate`
 * event handler.
 */
 abstract onPopState(fn: LocationChangeListener): VoidFunction;
 /**
 * Returns a
 * function that, when executed, removes the `hashchange` event handler.
 */
 abstract onHashChange(fn:
 LocationChangeListener): VoidFunction;
 abstract get href(): string;
 abstract get protocol(): string;
 abstract
 get hostname(): string;
 abstract get port(): string;
 abstract get pathname(): string;
 abstract get search():
 string;
 abstract get hash(): string;
 abstract replaceState(state: any, title: string, url: string): void;
 abstract
 pushState(state: any, title: string, url: string): void;
 abstract forward(): void;
 abstract back(): void;
 abstract
 historyGo?(relativePosition: number): void {
 throw new Error('Not implemented');
 }
}

export function
useBrowserPlatformLocation() {
 return inject(BrowserPlatformLocation);
}

/**
 * @description
 * Indicates when a location is initialized.
 */
@publicApi
export const
LOCATION_INITIALIZED = new InjectionToken<Promise<any>>>('Location Initialized');

/**
 * @description
 * A serializable version of the event from `onPopState` or `onHashChange`
 */
@publicApi
export interface LocationChangeEvent {
 type: string;
 state: any;
}

/**
 * @description
 * A serializable version of the event from `onPopState` or `onHashChange`
 */
@publicApi
export interface LocationChangeListener {
 (event: LocationChangeEvent): any;
}

/**
 * `PlatformLocation`
 * encapsulates all of the direct calls to platform APIs.
 * This class should not be used directly by an application
 * developer. Instead, use {@link Location}.
 */
@Injectable({
 providedIn: 'platform',
 // See #23917
 useFactory: createBrowserPlatformLocation,
})
export class BrowserPlatformLocation extends PlatformLocation {
 public readonly location!: Location;
 private _history!: History;

 constructor(@Inject(DOCUMENT)
 private _doc: any) {
 super();
 this._init();
 }

 // This is moved to its own method so that
 // `MockPlatformLocationStrategy` can overwrite it
 @internal
 _init() {
 (this as {location:
 Location}).location = window.location;
 this._history = window.history;
 }

 override
 getBaseHrefFromDOM(): string {
 return getDOM().getBaseHref(this._doc!);
 }

 override onPopState(fn:
 LocationChangeListener): VoidFunction {
 const window = getDOM().getGlobalEventTarget(this._doc,
 'window');
 window.addEventListener('popstate', fn, false);
 return () =>
 window.removeEventListener('popstate', fn);
 }

 override onHashChange(fn: LocationChangeListener):
 VoidFunction {
 const window = getDOM().getGlobalEventTarget(this._doc, 'window');
 window.addEventListener('hashchange', fn, false);
 return () => window.removeEventListener('hashchange',
 fn);
 }

 override get href(): string {
 return this.location.href;
 }

 override
 get protocol(): string {
 return this.location.protocol;
 }

 override get hostname(): string {
 return
 this.location.hostname;
 }

 override get port(): string {
 return this.location.port;
 }

 override get
 pathname(): string {
 return this.location.pathname;
 }

 override get search(): string {
 return
 this.location.search;
 }

 override get hash(): string {
 return this.location.hash;
 }

 override set
 pathname(newPath: string) {
 this.location.pathname = newPath;
 }

 override pushState(state: any, title:
 string, url: string): void {
 if (supportsState()) {
 this._history.pushState(state, title, url);
 } else {
 this.location.hash = url;
 }
 }

 override replaceState(state: any, title: string, url: string): void {
 if
 (supportsState()) {
 this._history.replaceState(state, title, url);
 } else {
 this.location.hash = url;
 }
 }
}

```

```

}\n\n override forward(): void {\n this._history.forward();\n}\n\n override back(): void {\n this._history.back();\n}\n\n override historyGo(relativePosition: number = 0): void {\n this._history.go(relativePosition);\n}\n\n override getState(): unknown {\n return this._history.state;\n}\n}\n\n\nexport function supportsState(): boolean {\n return !!window.history.pushState;\n}\n\nexport function createBrowserPlatformLocation() {\n return new BrowserPlatformLocation(inject(DOCUMENT));\n}\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nexport {DomAdapter as DomAdapter, getDOM as getDOM, setRootDomAdapter as setRootDomAdapter} from './dom_adapter';\nexport {BrowserPlatformLocation as BrowserPlatformLocation} from './location/platform_location';\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n\n * Joins two parts of a URL with a slash if needed.\n * \n * @param start URL string\n * @param end URL string\n * \n * @returns The joined URL string.\n */\nexport function joinWithSlash(start: string, end: string): string {\n if (start.length == 0) {\n return end;\n }\n if (end.length == 0) {\n return start;\n }\n let slashes = 0;\n if (start.endsWith('/')) {\n slashes++;\n }\n if (end.startsWith('/')) {\n slashes++;\n }\n if (slashes == 2) {\n return start + end.substring(1);\n }\n if (slashes == 1) {\n return start + end;\n }\n return start + '/' + end;\n}\n\n\n * Removes a trailing slash from a URL string if needed.\n * \n * Looks for the first occurrence of either `#`, `?`, or the end of the\n * line as `\\` characters and removes the trailing slash if one exists.\n * \n * @param url URL string.\n * \n * @returns The URL string, modified if needed.\n */\nexport function stripTrailingSlash(url: string): string {\n const match = url.match(/#|\\?|$/);\n const pathEndIdx = match && match.index || url.length;\n const droppedSlashIdx = pathEndIdx - (url[pathEndIdx - 1] === '/' ? 1 : 0);\n return url.slice(0, droppedSlashIdx) + url.slice(pathEndIdx);\n}\n\n\n * Normalizes URL parameters by prepending with `?` if needed.\n * \n * @param params String of URL parameters.\n * \n * @returns The normalized URL parameters string.\n */\nexport function normalizeQueryParams(params: string): string {\n return params && params[0] !== '?' ? '?' + params : params;\n}\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n\nimport {Inject, Injectable, InjectionToken, OnDestroy, Optional, inject} from '@angular/core';\nimport {DOCUMENT} from './dom_tokens';\n\nimport {LocationChangeListener, PlatformLocation} from './platform_location';\nimport {joinWithSlash, normalizeQueryParams} from './util';\n\n\n * Enables the `Location` service to read route state from the browser's URL.\n * \n * Angular provides two strategies:\n * \n * `HashLocationStrategy` and `PathLocationStrategy`.\n * \n * \n * Applications should use the `Router` or `Location` services to\n * interact with application route state.\n * \n * \n * For instance, `HashLocationStrategy` produces URLs like\n * \n * <code class="no-auto-link">http://example.com#/foo</code>,\n * \n * and `PathLocationStrategy` produces\n * \n * <code class="no-auto-link">http://example.com/foo</code> as an equivalent URL.\n * \n * \n * See these two classes for more.\n * \n * \n * \n * @publicApi\n */\n@Injectable({providedIn: 'root', useFactory: provideLocationStrategy})\nexport abstract class LocationStrategy {\n abstract path(includeHash?: boolean): string;\n abstract prepareExternalUrl(internal: string): string;\n abstract pushState(state: any, title: string, url: string, queryParams: string): void;\n abstract replaceState(state: any, title: string, url: string, queryParams: string): void;\n abstract forward(): void;\n abstract back(): void;\n historyGo?(relativePosition: number): void {\n throw new Error('Not implemented');\n }\n abstract onPopState(fn: LocationChangeListener): void;\n abstract getBaseHref(): string;\n}\n\n\nexport function provideLocationStrategy(platformLocation: PlatformLocation) {\n // See #23917\n const location = inject(DOCUMENT).location;\n return new PathLocationStrategy(\n inject(PlatformLocation as any), location && location.origin || ");\n}\n\n\n\n * A predefined [DI token](guide/glossary#di-token) for the base href\n * to be used with the `PathLocationStrategy`.\n * \n * The base href is the URL prefix that should be preserved when generating\n * and recognizing URLs.\n * \n * \n * @usageNotes\n * \n * The following example shows how to use this token to configure the root app injector\n
```

\* with a base href value, so that the DI framework can supply the dependency anywhere in the app.\n \*`

```

`typescript\n * import {Component, NgModule} from '@angular/core';\n * import {APP_BASE_HREF} from
'@angular/common';\n * \n * @NgModule({\n * providers: [{provide: APP_BASE_HREF, useValue: '/my/app'}]}\n
* })\n * class AppModule {\n * `*\n * @publicApi\n * /\n * export const APP_BASE_HREF = new
InjectionToken<string>('appBaseHref');\n * /\n * @description\n * A {@link LocationStrategy} used to configure
the {@link Location} service to\n * represent its state in the\n *
[path](https://en.wikipedia.org/wiki/Uniform_Resource_Locator#Syntax) of the\n * browser's URL.\n * \n * If you're
using `PathLocationStrategy`, you must provide a {@link APP_BASE_HREF}\n * or add a `` element
to the document.\n * \n * For instance, if you provide an `APP_BASE_HREF` of `/my/app/` and call\n *
`location.go('/foo')`, the browser's URL will become\n * `example.com/my/app/foo`. To ensure
all relative URIs resolve correctly,\n * the `` and/or `APP_BASE_HREF` should end with a `/`.\n * \n *
Similarly, if you add `` will be preserved, as outlined\n * by the
[RFC](https://tools.ietf.org/html/rfc3986#section-5.2.2).\n * \n * @usageNotes\n * \n * ### Example\n * \n *
{@example common/location/ts/path_location_component.ts region='LocationComponent'}\n * \n * @publicApi\n * /\n * @Injectable()\n * /\n * export class PathLocationStrategy extends LocationStrategy implements OnDestroy {\n * private
_baseHref: string;\n * private _removeListenerFns: (() => void)[] = [];\n * /\n * constructor(\n * private
_platformLocation: PlatformLocation,\n * @Optional() @Inject(APP_BASE_HREF) href?: string) {\n *
super();\n * if (href == null) {\n *
href = this._platformLocation.getBaseHrefFromDOM();\n * }\n * if (href == null) {\n * throw new Error(\n *
`No base href set. Please provide a value for the APP_BASE_HREF token or add a base element to the
document.`);\n * }\n * this._baseHref = href;\n * }\n * /\n * /** @nodoc */\n * ngOnDestroy(): void {\n * while
(this._removeListenerFns.length) {\n * this._removeListenerFns.pop()!();\n * }\n * }\n * /\n * override onPopState(fn:
LocationChangeListener): void {\n * this._removeListenerFns.push(\n * this._platformLocation.onPopState(fn),
this._platformLocation.onHashChange(fn));\n * }\n * /\n * override getBaseHref(): string {\n * return this._baseHref;\n *
}\n * /\n * override prepareExternalUrl(internal: string): string {\n * return joinWithSlash(this._baseHref, internal);\n *
}\n * /\n * override path(includeHash: boolean = false): string {\n * const pathname =\n *
this._platformLocation.pathname + normalizeQueryParams(this._platformLocation.search);\n * const hash =
this._platformLocation.hash;\n *
return hash && includeHash ? `${pathname}${hash}` : pathname;\n * }\n * /\n * override pushState(state: any, title:
string, url: string, queryParams: string) {\n * const externalUrl = this.prepareExternalUrl(url +
normalizeQueryParams(queryParams));\n * this._platformLocation.pushState(state, title, externalUrl);\n * }\n * /\n *
override replaceState(state: any, title: string, url: string, queryParams: string) {\n * const externalUrl =
this.prepareExternalUrl(url + normalizeQueryParams(queryParams));\n * this._platformLocation.replaceState(state,
title, externalUrl);\n * }\n * /\n * override forward(): void {\n * this._platformLocation.forward();\n * }\n * /\n *
override back(): void {\n * this._platformLocation.back();\n * }\n * /\n * override historyGo(relativePosition: number = 0): void
{\n * this._platformLocation.historyGo?.(relativePosition);\n * }\n * }\n * }\n * /\n * /**\n * \n * @license\n * Copyright Google LLC
All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style
license that can be\n * found in the LICENSE file at https://angular.io/license\n * \n * /\n * import {Inject, Injectable,
OnDestroy, Optional} from '@angular/core';\n * /\n * import {APP_BASE_HREF, LocationStrategy} from
'./location_strategy';\n * /\n * import {LocationChangeListener, PlatformLocation} from './platform_location';\n * /\n * import
{joinWithSlash, normalizeQueryParams} from './util';\n * /\n * /\n * @description\n * A {@link LocationStrategy}
used to configure the {@link Location} service to\n * represent its state in the\n * [hash
fragment](https://en.wikipedia.org/wiki/Uniform_Resource_Locator#Syntax)\n * of the browser's URL.\n * \n * For
instance, if you call `location.go('/foo')`, the browser's URL will become\n * `example.com/#/foo`. \n * \n *
@usageNotes\n * \n * ### Example\n * \n * {@example common/location/ts/hash_location_component.ts
region='LocationComponent'}\n * \n * @publicApi\n * /\n * @Injectable()\n * /\n * export class HashLocationStrategy extends

```

```

LocationStrategy implements OnDestroy {\n private
 _baseHref: string = ""; \n private _removeListenerFns: (() => void)[] = []; \n\n constructor(\n private
 _platformLocation: PlatformLocation, \n @Optional() @Inject(APP_BASE_HREF) _baseHref?: string) {\n
 super(); \n if (_baseHref != null) {\n this._baseHref = _baseHref; \n } \n } \n\n /** @nodoc * \n
 ngOnDestroy(): void {\n while (this._removeListenerFns.length) {\n this._removeListenerFns.pop()!(); \n } \n
 } \n\n override onPopState(fn: LocationChangeListener): void {\n this._removeListenerFns.push(\n
 this._platformLocation.onPopState(fn), this._platformLocation.onHashChange(fn)); \n } \n\n override
 getBaseHref(): string {\n return this._baseHref; \n } \n\n override path(includeHash: boolean = false): string {\n
 // the hash value is always prefixed with a `#` \n // and if it is empty then it will stay empty \n let path =
 this._platformLocation.hash; \n if (path == null) path = '#'; \n return path.length > 0 ? path.substring(1)
 : path; \n } \n\n override prepareExternalUrl(internal: string): string {\n const url = joinWithSlash(this._baseHref,
 internal); \n return url.length > 0 ? ('#' + url) : url; \n } \n\n override pushState(state: any, title: string, path: string,
 queryParams: string) {\n let url: string | null = this.prepareExternalUrl(path +
 normalizeQueryParams(queryParams)); \n if (url.length == 0) {\n url = this._platformLocation.pathname; \n
 } \n this._platformLocation.pushState(state, title, url); \n } \n\n override replaceState(state: any, title: string, path:
 string, queryParams: string) {\n let url = this.prepareExternalUrl(path + normalizeQueryParams(queryParams)); \n
 if (url.length == 0) {\n url = this._platformLocation.pathname; \n } \n this._platformLocation.replaceState(state, title, url); \n } \n\n override forward(): void {\n
 this._platformLocation.forward(); \n } \n\n override back(): void {\n this._platformLocation.back(); \n } \n\n
 override historyGo(relativePosition:
 number = 0): void {\n this._platformLocation.historyGo?.(relativePosition); \n } \n } \n\n", /** \n * @license \n *
 Copyright Google LLC All Rights Reserved. \n * \n * Use of this source code is governed by an MIT-style license
 that can be \n * found in the LICENSE file at https://angular.io/license \n * \n\n import { EventEmitter, Injectable,
 inject } from '@angular/core'; \n import { SubscriptionLike } from 'rxjs'; \n import { LocationStrategy } from
 './location_strategy'; \n import { PlatformLocation } from './platform_location'; \n import { joinWithSlash,
 normalizeQueryParams, stripTrailingSlash } from './util'; \n\n /** @publicApi * \n\n export interface PopStateEvent {\n
 pop?: boolean; \n state?: any; \n type?: string; \n url?: string; \n } \n\n /** \n * @description \n * \n * A service that
 applications can use to interact with a browser's URL. \n * \n * Depending on the `LocationStrategy` used, `Location`
 persists \n * to the URL's path or the URL's hash segment. \n * \n * @usageNotes \n * \n * It's
 better to use the `Router.navigate()` service to trigger route changes. Use \n * `Location` only if you need to interact
 with or create normalized URLs outside of \n * routing. \n * \n * `Location` is responsible for normalizing the URL
 against the application's base href. \n * \n * A normalized URL is absolute from the URL host, includes the application's
 base href, and has no \n * trailing slash: \n * - `/my/app/user/123` is normalized \n * - `/my/app/user/123` **is not**
 normalized \n * - `/my/app/user/123/` **is not** normalized \n * \n * ### Example \n * \n * <code-example
 path='common/location/ts/path_location_component.ts' \n * region='LocationComponent'></code-example> \n * \n *
 @publicApi \n * \n * @Injectable({ \n providedIn: 'root', \n // See #23917 \n useFactory: createLocation, \n }) \n export
 class Location {\n /** @internal * \n _subject: EventEmitter<any> = new EventEmitter(); \n /** @internal * \n
 _baseHref: string; \n /** @internal * \n _platformStrategy: LocationStrategy; \n /** @internal * \n
 _platformLocation: PlatformLocation; \n /** @internal * \n _urlChangeListeners: ((url: string, state: unknown) =>
 void)[] = []; \n /** @internal * \n _urlChangeSubscription?: SubscriptionLike; \n\n constructor(platformStrategy:
 LocationStrategy, platformLocation: PlatformLocation) {\n this._platformStrategy = platformStrategy; \n const
 browserBaseHref = this._platformStrategy.getBaseHref(); \n this._platformLocation = platformLocation; \n
 this._baseHref = stripTrailingSlash(_stripIndexHtml(browserBaseHref)); \n this._platformStrategy.onPopState((ev)
 => {\n this._subject.emit({ \n 'url': this.path(true), \n 'pop': true, \n 'state': ev.state, \n
 'type': \n ev.type, \n }); \n }); \n } \n\n /** \n * Normalizes the URL path for this location. \n * \n * @param
 includeHash True to include an anchor fragment in the path. \n * \n * @returns The normalized URL path. \n * \n
 // TODO: vsavkin. Remove the boolean flag and always include hash once

```

```

the deprecated router is\n // removed.\n path(includeHash: boolean = false): string {\n return
this.normalize(this._platformStrategy.path(includeHash));\n }\n\n /**\n * Reports the current state of the location
history.\n * @returns The current value of the `history.state` object.\n */\n getState(): unknown {\n return
this._platformLocation.getState();\n }\n\n /**\n * Normalizes the given path and compares to the current
normalized path.\n * @param path The given URL path.\n * @param query Query parameters.\n * @returns True if the given URL path is equal to the current normalized path, false\n * otherwise.\n */\n
isCurrentPathEqualTo(path: string, query: string = ""): boolean {\n return this.path() == this.normalize(path +
normalizeQueryParams(query));\n }\n\n /**\n * Normalizes a URL path by stripping any trailing slashes.\n */\n
* @param url String representing a URL.\n * @returns The normalized URL string.\n */\n normalize(url:
string): string {\n return Location.stripTrailingSlash(_stripBaseHref(this._baseHref, _stripIndexHtml(url)));
}\n\n /**\n * Normalizes an external URL path.\n * If the given URL doesn't begin with a leading slash ('/'),
adds one\n * before normalizing. Adds a hash if `HashLocationStrategy` is\n * in use, or the `APP_BASE_HREF`
if the `PathLocationStrategy` is in use.\n * @param url String representing a URL.\n * @returns A
normalized platform-specific URL.\n */\n prepareExternalUrl(url: string): string {\n if (url && url[0] !== '/') {\n
 url = '/' + url;\n }\n return this._platformStrategy.prepareExternalUrl(url);\n }\n\n // TODO: rename this
method to pushState\n /**\n * Changes the browser's URL to a normalized version of a given URL, and pushes a\n
* new item onto the platform's history.\n * @param path URL path to normalize.\n * @param query Query
parameters.\n * @param state Location history state.\n
*\n */\n go(path: string, query: string = "", state: any = null): void {\n this._platformStrategy.pushState(state, "",
path, query);\n this._notifyUrlChangeListeners(\n this.prepareExternalUrl(path +
normalizeQueryParams(query)), state);\n }\n\n /**\n * Changes the browser's URL to a normalized version of the
given URL, and replaces\n * the top item on the platform's history stack.\n * @param path URL path to
normalize.\n * @param query Query parameters.\n * @param state Location history state.\n */\n
replaceState(path: string, query: string = "", state: any = null): void {\n this._platformStrategy.replaceState(state, "",
path, query);\n this._notifyUrlChangeListeners(\n this.prepareExternalUrl(path +
normalizeQueryParams(query)), state);\n }\n\n /**\n * Navigates forward in the platform's history.\n */\n
forward(): void {\n this._platformStrategy.forward();\n }\n\n /**\n * Navigates back in the platform's history.\n
*/\n back(): void {\n this._platformStrategy.back();\n }\n\n /**\n * Navigate to a specific page from session
history, identified by its relative position to the\n * current page.\n * @param relativePosition Position of
the target page in the history relative to the current\n * page.\n * A negative value moves backwards, a positive
value moves forwards, e.g. `location.historyGo(2)`\n * moves forward two pages and `location.historyGo(-2)`
moves back two pages. When we try to go\n * beyond what's stored in the history session, we stay in the current
page. Same behaviour occurs\n * when `relativePosition` equals 0.\n * @see https://developer.mozilla.org/en-US/docs/Web/API/History_API#Moving_to_a_specific_point_in_history\n */\n historyGo(relativePosition:
number = 0): void {\n this._platformStrategy.historyGo?.(relativePosition);\n }\n\n /**\n * Registers a URL
change listener. Use to catch updates performed by the Angular\n * framework that
are not detectable through `popstate` or `hashchange` events.\n * @param fn The change handler function,
which take a URL and a location history state.\n */\n onUrlChange(fn: (url: string, state: unknown) => void) {\n
this._urlChangeListeners.push(fn);\n\n if (!this._urlChangeSubscription) {\n this._urlChangeSubscription =
this.subscribe(v => {\n this._notifyUrlChangeListeners(v.url, v.state);\n });\n }\n }\n\n /** @internal */\n
_notifyUrlChangeListeners(url: string = "", state: unknown) {\n this._urlChangeListeners.forEach(fn => fn(url,
state));\n }\n\n /**\n * Subscribes to the platform's `popState` events.\n * Note: `Location.go()` does not
trigger the `popState` event in the browser. Use\n * `Location.onUrlChange()` to subscribe to URL changes
instead.\n * @param value Event that is triggered when the state history changes.\n * @param exception The
exception to throw.\n * @see [onpopstate](https://developer.mozilla.org/en-US/docs/Web/API/WindowEventHandlers/onpopstate)\n
*\n * @returns Subscribed events.\n */\n subscribe(\n onNext: (value: PopStateEvent) => void, onThrow?:
((exception: any) => void)|null,\n onReturn?: (() => void)|null): SubscriptionLike {\n return

```

```
this._subject.subscribe({next: onNext, error: onThrow, complete: onReturn});\n }\n\n /**\n * Normalizes URL parameters by prepending with `?` if needed.\n *\n * @param params String of URL parameters.\n *\n * @returns The normalized URL parameters string.\n */\n public static normalizeQueryParams: (params: string) => string = normalizeQueryParams;\n\n /**\n * Joins two parts of a URL with a slash if needed.\n *\n * @param start URL string\n * @param end URL string\n *\n * @returns The joined URL string.\n */\n public static joinWithSlash: (start: string, end: string) => string = joinWithSlash;\n\n /**\n * Removes a trailing slash from a URL string if needed.\n */
```

```
{Location, PopStateEvent} from './location';\nexport {APP_BASE_HREF, LocationStrategy, PathLocationStrategy} from './location_strategy';\nexport {LOCATION_INITIALIZED, LocationChangeEvent, LocationChangeListener, PlatformLocation} from './platform_location';\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\n\n// THIS CODE IS GENERATED - DO NOT MODIFY.\nexport type CurrenciesSymbols = [string] | [string | undefined, string];\n\n/** @internal */\nexport const CURRENCIES_EN: {[code: string]: CurrenciesSymbols | [string | undefined, string | undefined, number]} = {\n \"ADP\": [undefined, undefined, 0], \"AFN\": [undefined, \"\", 0], \"ALL\": [undefined, undefined, 0], \"AMD\": [undefined, \"\", 2], \"AOA\": [undefined, \"Kz\"], \"ARS\": [undefined, \"$\"], \"AUD\": [\"A$\", \"$\"], \"AZN\": [undefined, \"\"], \"BAM\": [undefined, \"KM\"], \"BBD\": [undefined, \"$\"], \"BDT\": [undefined, \"\"], \"BHD\": [undefined, undefined, 3], \"BIF\": [undefined, undefined, 0], \"BMD\": [undefined, \"$\"], \"BND\": [undefined, \"$\"], \"BOB\": [undefined, \"Bs\"], \"BRL\": [\"R$\", \"\"], \"BSD\": [undefined, \"$\"], \"BWP\": [undefined, \"P\"], \"BYN\": [undefined, \".\", 2], \"BYR\": [undefined, undefined, 0], \"BZD\": [undefined, \"$\"], \"CAD\": [\"CA$\", \"$\", 2], \"CHF\": [undefined, undefined, 2], \"CLF\": [undefined, undefined, 4], \"CLP\": [undefined, \"$\", 0], \"CNY\": [\"CN¥\", \"¥\"], \"COP\": [undefined, \"$\", 2], \"CRC\": [undefined, \"\", 2], \"CUC\": [undefined, \"$\"], \"CUP\": [undefined, \"$\"], \"CZK\": [undefined, \"K\", 2], \"DJF\": [undefined, undefined, 0], \"DKK\": [undefined, \"kr\", 2], \"DOP\": [undefined, \"$\"], \"EGP\": [undefined, \"E£\"], \"ESP\": [undefined, \"\", 0], \"EUR\": [\"€\", \"\"], \"FJD\": [undefined, \"$\"], \"FKP\": [undefined, \"£\"], \"GBP\": [\"£\", \"\"], \"GEL\": [undefined, \"\"], \"GHS\": [undefined, \"GH\"], \"GIP\": [undefined, \"£\", \"\"], \"GNF\": [undefined, \"FG\", 0], \"GTQ\": [undefined, \"Q\", \"\"], \"GYD\": [undefined, \"$\", 2], \"HKD\": [\"HK$\", \"$\"], \"HNL\": [undefined, \"L\", \"\"], \"HRK\": [undefined, \"kn\", \"\"], \"HUF\": [undefined, \"Ft\", 2], \"IDR\": [undefined, \"Rp\", 2], \"ILS\": [\"\", \"\"], \"INR\": [\"\", \"\"], \"IQD\": [undefined, undefined, 0], \"IRR\": [undefined, undefined, 0], \"ISK\": [undefined, \"kr\", 0], \"ITL\": [undefined, undefined, 0], \"JMD\": [undefined, \"$\", \"\"], \"JOD\": [undefined, undefined, 3], \"JPY\": [\"¥\", undefined, 0], \"KHR\": [undefined, \"\", \"\"], \"KMF\": [undefined, \"CF\", 0], \"KPW\": [undefined, \"\", 0], \"KRW\": [\"\", undefined, 0], \"KWD\": [undefined, undefined, 3], \"KYD\": [undefined, \"$\", \"\"], \"KZT\": [undefined, \"\", \"\"], \"LAK\": [undefined, \"\", 0], \"LBP\": [undefined, \"L£\", 0], \"LKR\": [undefined, \"Rs\", \"\"], \"LRD\": [undefined, \"$\", \"\"], \"LTL\": [undefined, \"Lt\", \"\"], \"LUF\": [undefined, undefined, 0], \"LVL\": [undefined, \"Ls\", \"\"], \"LYD\": [undefined, undefined, 3], \"MGA\": [undefined, \"Ar\", 0], \"MGF\": [undefined, undefined, 0], \"MMK\": [undefined, \"K\", 0], \"MNT\": [undefined, \"\", 2], \"MRO\": [undefined, undefined, 0], \"MUR\": [undefined, \"Rs\", 2], \"MXN\": [\"MX$\", \"$\", \"\"], \"MYR\": [undefined, \"RM\", \"\"], \"NAD\": [undefined, \"$\", \"\"], \"NGN\": [undefined, \"\", \"\"], \"NIO\": [undefined, \"C$, \"\"], \"NOK\": [undefined, \"kr\", 2], \"NPR\": [undefined, \"Rs\", \"\"], \"NZD\": [\"NZ$\", \"$\", \"\"], \"OMR\": [undefined, undefined, 3], \"PHP\": [\"\", \"\"], \"PKR\": [undefined, \"Rs\", 2], \"PLN\": [undefined, \"z\", \"\"], \"PYG\": [undefined, \"\", 0], \"RON\": [undefined, \"lei\", \"\"], \"RSD\": [undefined, undefined, 0], \"RUB\": [undefined, \"\", \"\"], \"RUR\": [undefined, \"\", \"\"], \"RWF\": [undefined, \"\", \"\"], \"SAR\": [undefined, \"R\", 2], \"SBD\": [undefined, \"\", 2], \"SHP\": [undefined, \"\", 2], \"SLL\": [undefined, \"\", 2], \"SOL\": [undefined, \"\", 2], \"SRD\": [undefined, \"\", 2], \"STD\": [undefined, \"\", 2], \"SVC\": [undefined, \"C\", 2], \"SZL\": [undefined, \"\", 2], \"TWD\": [\"NT$\", \"$\", \"\"], \"TZS\": [undefined, \"\", 2], \"UGX\": [undefined, \"\", 2], \"USD\": [\"$\", \"$\", \"\"], \"UYU\": [undefined, \"N$, \"\"], \"UZS\": [undefined, \"\", 2], \"VND\": [\"VN$\", \"$\", \"\"], \"VUV\": [undefined, \"\", 2], \"WST\": [undefined, \"\", 2], \"XAF\": [undefined, \"CFA\", 0], \"XCD\": [undefined, \"$\", 2], \"XDR\": [undefined, \"\", 2], \"XOF\": [undefined, \"CFA\", 0], \"XPF\": [undefined, \"CFA\", 0], \"YER\": [undefined, \"R\", 2], \"ZAR\": [undefined, \"R\", 2], \"ZMW\": [undefined, \"Z$, \"\"], \"ZWL\": [undefined, \"Z$, \"\"]\n};
```

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ed,\"RF\",0,\"SBD\":[undefined,\"$\"],\"SEK\":[undefined,\"kr\",2],\"SGD\":[undefined,\"$\"],\"SHP\":[undefined,\"£\"],\"SLL\":[undefined,undefined,0],\"SOS\":[undefined,undefined,0],\"SRD\":[undefined,\"$\"],\"SSP\":[undefined,\"£\"],\"STD\":[undefined,undefined,0],\"STN\":[undefined,\"Db\"],\"SYP\":[undefined,\"£\",0],\"THB\":[undefined,\"\"],\"TMM\":[undefined,undefined,0],\"TND\":[undefined,undefined,3],\"TOP\":[undefined,\"T$\"],\"TRL\":[undefined,undefined,0],\"TRY\":[undefined,\"\"],\"TTD\":[undefined,\"$\"],\"TWD\":[\"NT$\", \"$\",2],\"TZS\":[undefined,undefined,2],\"UAH\":[undefined,\"\"],\"UGX\":[undefined,undefined,0],\"USD\":[\"$\", \"UYI\":[undefined,undefined,0],\"UYU\":[undefined,\"$\"],\"UYW\":[undefined,undefined,4],\"UZS\":[undefined,undefined,2],\"VEF\":[undefined,\"Bs\",2],\"VND\":[\"\",undefined,0],\"VUV\":[undefined,undefined,0],\"XAF\":[\"FCFA\",undefined,0],\"XCD\":[\"EC$\", \"$\"],\"XOF\":[\"F
CFA\",undefined,0],\"XPF\":[\"CFPF\",undefined,0],\"XXX\":[\"\", \"YER\":[undefined,undefined,0],\"ZAR\":[undefined,\"R\"],\"ZMK\":[undefined,undefined,0],\"ZMW\":[undefined,\"ZK\"],\"ZWD\":[undefined,undefined,0]}};
\", \"**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nimport
{CurrencyIndex, ExtraLocaleDataIndex, findLocaleData, getLocaleCurrencyCode, getLocalePluralCase,
LocaleDataIndex} from '@angular/core';\n\nimport {CURRENCIES_EN,
CurrenciesSymbols} from './currencies';\n\n\n**\n * Format styles that can be used to represent numbers.\n * @see
`getLocaleNumberFormat()`. \n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n
*\n * @publicApi\n *\n\nexport enum NumberFormatStyle {\n Decimal,\n Percent,\n Currency,\n Scientific\n}\n\n\n**\n * Plurality cases used for translating plurals to different languages.\n * \n * @see `NgPlural`\n
* @see `NgPluralCase`\n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n *\n *
@publicApi\n *\n\nexport enum Plural {\n Zero = 0,\n One = 1,\n Two = 2,\n Few = 3,\n Many = 4,\n Other =
5,\n}\n\n\n**\n * Context-dependant translation forms for strings.\n * Typically the standalone version is for the
nominative form of the word,\n * and the format version is used for the genitive case.\n * @see [CLDR
website](http://cldr.unicode.org/translation/date-time-1/date-time#TOC-Standalone-vs.-Format-Styles)\n * @see
[Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n *\n * @publicApi\n *\n\nexport enum
FormStyle {\n Format,\n Standalone\n}\n\n\n**\n * String widths available for translations.\n * The specific
character widths are locale-specific.\n * Examples are given for the word `Sunday` in English.\n *\n *
@publicApi\n *\n\nexport enum TranslationWidth {\n /** 1 character for `en-US`. For example: `S` *\n Narrow,\n
 /** 3 characters for `en-US`. For example: `Sun` *\n Abbreviated,\n /** Full length for `en-US`. For example:
`Sunday` *\n Wide,\n /** 2 characters for `en-US`, For example: `Su` *\n Short\n}\n\n\n**\n * String widths
available for date-time formats.\n * The specific character widths are locale-specific.\n * Examples are given for
`en-US`. \n *\n * @see `getLocaleDateFormat()`. \n * @see `getLocaleTimeFormat()`. \n * @see
`getLocaleDateTimeFormat()`. \n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-
overview)\n *\n * @publicApi\n
*\n\nexport enum FormatWidth {\n /**\n * For `en-US`, `M/d/yy, h:mm a`\n * (Example: `6/15/15, 9:03 AM`)\n
 Short,\n /**\n * For `en-US`, `MMM d, y, h:mm:ss a`\n * (Example: `Jun 15, 2015, 9:03:01 AM`)\n *\n
 Medium,\n /**\n * For `en-US`, `MMMM d, y, h:mm:ss a z`\n * (Example: `June 15, 2015 at 9:03:01 AM
GMT+1`)\n   *\n  Long,\n  /**\n   * For `en-US`, `EEEE, MMMM d, y, h:mm:ss a zzzz`\n   * (Example: `Monday,
June 15, 2015 at 9:03:01 AM GMT+01:00`)\n *\n Full\n}\n\n\n**\n * Symbols that can be used to replace
placeholders in number patterns.\n * Examples are based on `en-US` values.\n *\n * @see
`getLocaleNumberSymbol()`. \n * @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n
*\n * @publicApi\n *\n\nexport enum NumberSymbol {\n /**\n * Decimal separator.\n * For `en-US`, the dot
character.\n * Example: 2,345.`67`\n *\n Decimal,\n /**\n * Grouping separator, typically for thousands.\n
 For `en-US`,
the comma character.\n * Example: 2`,`345.67`\n *\n Group,\n /**\n * List-item separator.\n * Example:
`one, two, and three`\n *\n List,\n /**\n * Sign for percentage (out of 100).\n * Example: 23.4%\n *\n
 PercentSign,\n /**\n * Sign for positive numbers.\n * Example: +23`\n *\n PlusSign,\n /**\n * Sign for
negative numbers.\n * Example: -23`\n *\n MinusSign,\n /**\n * Computer notation for exponential value (n

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times a power of 10).\n \* Example: 1.2E3\n \* /\n Exponential,\n /\*\*\n \* Human-readable format of exponential.\n \* Example: 1.2x103\n \* /\n SuperscriptingExponent,\n /\*\*\n \* Sign for permille (out of 1000).\n \* Example: 23.4%\n \* /\n PerMille,\n /\*\*\n \* Infinity, can be used with plus and minus.\n \* Example: , +, -\n \* /\n Infinity,\n /\*\*\n \* Not a number.\n \* Example: NaN\n \* /\n NaN,\n /\*\*\n \* Symbol used between time units.\n \* Example: 10:52\n \* /\n TimeSeparator,\n /\*\*\n \* Decimal separator for currency values (fallback to `Decimal`).\n \* Example: \$2,345.67\n \* /\n CurrencyDecimal,\n /\*\*\n \* Group separator for currency values (fallback to `Group`).\n \* Example: \$2,345.67\n \* /\n CurrencyGroup\n}\n\n/\*\*\n \* The value for each day of the week, based on the `en-US` locale\n \* @publicApi\n \*/\nexport enum WeekDay {\n Sunday = 0,\n Monday,\n Tuesday,\n Wednesday,\n Thursday,\n Friday,\n Saturday\n}\n\n/\*\*\n \* Retrieves the locale ID from the currently loaded locale.\n \* The loaded locale could be, for example, a global one rather than a regional one.\n \* @param locale A locale code, such as `fr-FR`.\n \* @returns The locale code. For example, `fr`.\n \* @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n \*/\n \* @publicApi\n \*/\nexport function getLocaleId(locale: string): string {\n return findLocaleData(locale)[LocaleDataIndex.LocaleId];\n}\n\n/\*\*\n \* Retrieves day period strings for the given locale.\n \* @param locale A locale code for the locale format rules to use.\n \* @param formStyle The required grammatical form.\n \* @param width The required character width.\n \* @returns An array of localized period strings. For example, `[AM, PM]` for `en-US`.\n \* @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n \*/\n \* @publicApi\n \*/\nexport function getLocaleDayPeriods(\n locale: string, formStyle: FormStyle, width: TranslationWidth): Readonly<[string, string]> {\n const data = findLocaleData(locale);\n const amPmData = <[string, string][][]>[data[LocaleDataIndex.DayPeriodsFormat], data[LocaleDataIndex.DayPeriodsStandalone]\n ];\n const amPm = getLastDefinedValue(amPmData, formStyle);\n return getLastDefinedValue(amPm, width);\n}\n\n/\*\*\n \* Retrieves days of the week for the given locale, using the Gregorian calendar.\n \* @param locale A locale code for the locale format rules to use.\n \* @param formStyle The required grammatical form.\n \* @param width The required character width.\n \* @returns An array of localized name strings.\n \* For example, `[Sunday, Monday, ... Saturday]` for `en-US`.\n \* @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n \*/\n \* @publicApi\n \*/\nexport function getLocaleDayNames(\n locale: string, formStyle: FormStyle, width: TranslationWidth): ReadonlyArray<string> {\n const data = findLocaleData(locale);\n const daysData = <string[][]>[data[LocaleDataIndex.DaysFormat], data[LocaleDataIndex.DaysStandalone]];\n const days = getLastDefinedValue(daysData, formStyle);\n return getLastDefinedValue(days, width);\n}\n\n/\*\*\n \* Retrieves months of the year for the given locale, using the Gregorian calendar.\n \* @param locale A locale code for the locale format rules to use.\n \* @param formStyle The required grammatical form.\n \* @param width The required character width.\n \* @returns An array of localized name strings.\n \* For example, `[January, February, ...]` for `en-US`.\n \* @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n \*/\n \* @publicApi\n \*/\nexport function getLocaleMonthNames(\n locale: string, formStyle: FormStyle, width: TranslationWidth): ReadonlyArray<string> {\n const data = findLocaleData(locale);\n const monthsData = <string[][]>[data[LocaleDataIndex.MonthsFormat], data[LocaleDataIndex.MonthsStandalone]];\n const months = getLastDefinedValue(monthsData, formStyle);\n return getLastDefinedValue(months, width);\n}\n\n/\*\*\n \* Retrieves Gregorian-calendar eras for the given locale.\n \* @param locale A locale code for the locale format rules to use.\n \* @param width The required character width.\n \* @returns An array of localized era strings.\n \* For example, `[AD, BC]` for `en-US`.\n \* @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n \*/\n \* @publicApi\n \*/\nexport function getLocaleEraNames(\n locale: string, width: TranslationWidth): Readonly<[string, string]> {\n const data = findLocaleData(locale);\n const erasData = <[string, string][][]>data[LocaleDataIndex.Eras];\n return getLastDefinedValue(erasData, width);\n}\n\n/\*\*\n \* Retrieves the first day of the week for the given locale.\n \* @param locale A locale code for the locale format rules to use.\n \* @returns A day index number, using the 0-based week-day index for `en-US` (Sunday = 0, Monday = 1, ...).\n \*/



For example, for `fr-FR`, returns 1 to indicate that the first day is Monday.

@see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)

\* @publicApi

\* ^\nexport function  
getLocaleFirstDayOfWeek(locale: string): WeekDay {\n const data = findLocaleData(locale);\n return  
data[LocaleDataIndex.FirstDayOfWeek];\n}\n\n/\*\*\n \* Range of week days that are considered the week-end for  
the given locale.\n \*\n \* @param locale A locale code for the locale format rules to use.\n \*\n \* @returns The range of  
day values, `[startDay,  
endDay]`.\n \*\n \* @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n \*\n \* @publicApi\n \*/\n^\nexport function getLocaleWeekEndRange(locale: string): [WeekDay, WeekDay] {\n const data =  
findLocaleData(locale);\n return data[LocaleDataIndex.WeekendRange];\n}\n\n/\*\*\n \* Retrieves a localized date-  
value forming string.\n \*\n \* @param locale A locale code for the locale format rules to use.\n \*\n \* @param width  
The format type.\n \*\n \* @returns The localized forming string.\n \*\n \* @see `FormatWidth`\n \*\n \* @see  
[Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)\n \*\n \* @publicApi\n \*/\n^\nexport  
function getLocaleDateFormat(locale: string, width: FormatWidth): string {\n const data =  
findLocaleData(locale);\n return getLastDefinedValue(data[LocaleDataIndex.DateFormat], width);\n}\n\n/\*\*\n \* Retrieves a localized time-value formatting string.\n \*\n \* @param locale A locale code for the locale format rules  
to use.\n \*\n \* @param width The format type.\n \*\n \* @returns The localized formatting string.\n \*\n \* @see `FormatWidth`\n \*\n \* @see [Internationalization (i18n)  
Guide](https://angular.io/guide/i18n-overview)\n \*\n \* @publicApi\n \*/\n^\nexport function  
getLocaleTimeFormat(locale: string, width: FormatWidth): string {\n const data = findLocaleData(locale);\n return  
getLastDefinedValue(data[LocaleDataIndex.TimeFormat], width);\n}\n\n/\*\*\n \* Retrieves a localized date-time  
formatting string.\n \*\n \* @param locale A locale code for the locale format rules to use.\n \*\n \* @param width The  
format type.\n \*\n \* @returns The localized formatting string.\n \*\n \* @see `FormatWidth`\n \*\n \* @see [Internationalization  
(i18n) Guide](https://angular.io/guide/i18n-overview)\n \*\n \* @publicApi\n \*/\n^\nexport function  
getLocaleDateTimeFormat(locale: string, width: FormatWidth): string {\n const data = findLocaleData(locale);\n  
const dateTimeFormatData = <string[]>data[LocaleDataIndex.DateTimeFormat];\n return  
getLastDefinedValue(dateTimeFormatData, width);\n}\n\n/\*\*\n \* Retrieves a localized number symbol that can be used to replace placeholders in number formats.\n \*\n \* @param  
locale The locale code.\n \*\n \* @param symbol The symbol to localize.\n \*\n \* @returns The character for the localized  
symbol.\n \*\n \* @see `NumberSymbol`\n \*\n \* @see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-  
overview)\n \*\n \* @publicApi\n \*/\n^\nexport function getLocaleNumberSymbol(locale: string, symbol:  
NumberSymbol): string {\n const data = findLocaleData(locale);\n const res =  
data[LocaleDataIndex.NumberSymbols][symbol];\n if (typeof res === 'undefined') {\n if (symbol ===  
NumberSymbol.CurrencyDecimal) {\n return  
data[LocaleDataIndex.NumberSymbols][NumberSymbol.Decimal];\n } else if (symbol ===  
NumberSymbol.CurrencyGroup) {\n return data[LocaleDataIndex.NumberSymbols][NumberSymbol.Group];\n }\n }\n return res;\n}\n\n/\*\*\n \* Retrieves a number format for a given locale.\n \*\n \* Numbers are formatted using  
patterns, like `#,###.00`. For example,  
  
the pattern `#,###.00` when used to format the number 12345.678 could result in `"12'345,678"`. That would  
happen if the grouping separator for your language is an apostrophe, and the decimal separator is a comma.  
  
Important: The characters ```,``,`0`,`#` (and others below) are special placeholders that stand for the  
decimal separator, and so on, and are NOT real characters. You must NOT "translate" the placeholders. For  
example, don't change ```,`` to ```,``,`` even though in your language the decimal point is written with a comma. The  
symbols should be replaced by the local equivalents, using the appropriate `NumberSymbol` for your  
language.  
  
Here are the special characters used in number patterns:

| Symbol | Meaning                                                             |
|--------|---------------------------------------------------------------------|
|        | Replaced automatically by the character used for the decimal point. |
| ,      | Replaced by the "grouping" (thousands) separator.                   |
| 0      | Replaced by a digit (or zero if there aren't enough digits).        |
| #      | Replaced by a digit (or nothing if there aren't enough).            |
| ¤      | Replaced by a currency symbol, such as \$ or USD.                   |
| %      | Marks a percent format. The % symbol may change position, but       |

must be retained. `|E|` Marks a scientific format. The E symbol may change position, but must be retained.

`'|'` Special characters used as literal characters are quoted with ASCII single quotes.

`@param locale A locale code for the locale format rules to use.`

`@param type The type of numeric value to be formatted (such as 'Decimal' or 'Currency').`

`@returns The localized format string.`

`@see `NumberFormatStyle``

`@see [CLDR website](http://cldr.unicode.org/translation/number-patterns)`

`@see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)`

`@publicApi`

`^/nexport function getLocaleNumberFormat(locale: string, type: NumberFormatStyle): string {`

`const data = findLocaleData(locale);`

`return`

`data[LocaleDataIndex.NumberFormats][type];`

`^/n^/n^/n^/n^/n^/n^/n^/n^/`

`^/n^/n^/n^/` Retrieves the symbol used to represent the currency for the main country corresponding to a given locale. For example, '\$' for 'en-US'.

`@param locale A locale code for the locale format rules to use.`

`@returns The localized symbol character,`

`^/n^/n^/n^/` or 'null' if the main country cannot be determined.

`@see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)`

`@publicApi`

`^/nexport function getLocaleCurrencySymbol(locale: string): string|null {`

`const data = findLocaleData(locale);`

`return data[LocaleDataIndex.CurrencySymbol] || null;`

`^/n^/n^/n^/`

`^/n^/n^/n^/` Retrieves the name of the currency for the main country corresponding to a given locale. For example, 'US Dollar' for 'en-US'.

`@param locale A locale code for the locale format rules to use.`

`@returns The currency name,`

`^/n^/n^/n^/` or 'null' if the main country cannot be determined.

`@see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)`

`@publicApi`

`^/nexport function getLocaleCurrencyName(locale: string): string|null {`

`const data = findLocaleData(locale);`

`return data[LocaleDataIndex.CurrencyName] || null;`

`^/n^/n^/n^/`

`^/n^/n^/n^/` Retrieves the default currency code for the given locale.

`^/n^/n^/n^/` The default is defined as the first currency which is still in use.

`@param locale The code of the locale whose currency code we want.`

`@returns The code of the default currency for the given locale.`

`@publicApi`

`^/nexport function getLocaleCurrencyCode(locale: string): string|null {`

`return getLocaleCurrencyCode(locale);`

`^/n^/n^/n^/`

`^/n^/n^/n^/` Retrieves the currency values for a given locale.

`@param locale A locale code for the locale format rules to use.`

`@returns The currency values.`

`@see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)`

`^/nfunction getLocaleCurrencies(locale: string): {[code: string]: CurrenciesSymbols} {`

`const data = findLocaleData(locale);`

`return data[LocaleDataIndex.Currencies];`

`^/n^/n^/n^/`

`@alias core/getLocalePluralCase`

`@publicApi`

`^/nexport const getLocalePluralCase: (locale: string) => ((value: number) => Plural) => {`

`const getLocalePluralCase = (locale: string) => {`

`if (!data[LocaleDataIndex.ExtraData]) {`

`throw new Error('Missing extra locale data for the locale \'' + locale + '\');`

`^/n^/n^/n^/`

`const {LocaleId} = data[LocaleDataIndex.ExtraData];`

`^/n^/n^/n^/` Use 'registerLocaleData' to load new data. See the 'I18n guide' on angular.io to know more.

`^/n^/n^/n^/` Retrieves locale-specific rules used to determine which day period to use when more than one period is defined for a locale.

`^/n^/n^/n^/` There is a rule for each defined day period. The first rule is applied to the first day period and so on.

`^/n^/n^/n^/` Fall back to AM/PM when no rules are available.

`^/n^/n^/n^/` A rule can specify a period as time range, or as a single time value.

`^/n^/n^/n^/` This functionality is only available when you have loaded the full locale data.

`^/n^/n^/n^/` See the 'I18n guide' (guide/i18n-common-format-data-locale).

`@param locale A locale code for the locale format rules to use.`

`@returns The rules for the locale, a single time value or array of 'from-time, to-time',`

`^/n^/n^/n^/` or null if no periods are available.

`@see `getLocaleExtraDayPeriods``

`@see [Internationalization (i18n) Guide](https://angular.io/guide/i18n-overview)`

`@publicApi`

`^/nexport function getLocaleExtraDayPeriodRules(locale: string): (Time|[Time, Time])[] {`

`const data = findLocaleData(locale);`

`checkFullData(data);`

`const rules = data[LocaleDataIndex.ExtraData][ExtraLocaleDataIndex.ExtraDayPeriodsRules] || [];`

`return rules.map((rule: string|[string, string]) => {`

`if (typeof rule === 'string') {`

`return extractTime(rule);`

`^/n^/n^/n^/` return [extractTime(rule[0]), extractTime(rule[1])];

`^/n^/n^/n^/` Retrieves locale-specific day periods, which indicate roughly how a day is broken up in different languages.

`^/n^/n^/n^/` For example, for 'en-US', periods are morning, noon, afternoon, evening, and midnight.

`^/n^/n^/n^/` This functionality is only available when you have loaded the full

locale data.\n \* See the ["i18n guide"](<https://angular.io/guide/i18n-common-format-data-locale>).\n \* @param locale A locale code for the locale format rules to use.\n \* @param formStyle The required grammatical form.\n \* @param width The required character width.\n \* @returns The translated day-period strings.\n \* @see `getLocaleExtraDayPeriodRules`\n \* @see [Internationalization (i18n) Guide](<https://angular.io/guide/i18n-overview>)\n \* @publicApi\n \* @export function getLocaleExtraDayPeriods(locale: string, formStyle: FormStyle, width: TranslationWidth): string[] {\n const data = findLocaleData(locale);\n checkFullData(data);\n const dayPeriodsData = <string[][]>[\n data[LocaleDataIndex.ExtraData][ExtraLocaleDataIndex.ExtraDayPeriodFormats],\n data[LocaleDataIndex.ExtraData][ExtraLocaleDataIndex.ExtraDayPeriodStandalone]\n ];\n const dayPeriods = getLastDefinedValue(dayPeriodsData, formStyle) || [];\n return getLastDefinedValue(dayPeriods, width) || [];\n }\n\n /\*\*\n \* Retrieves the writing direction of a specified locale\n \* @param locale A locale code for the locale format rules to use.\n \* @publicApi\n \* @returns 'rtl' or 'ltr'\n \* @see [Internationalization (i18n) Guide](<https://angular.io/guide/i18n-overview>)\n \* @export function getLocaleDirection(locale: string): 'ltr'|'rtl' {\n const data = findLocaleData(locale);\n return data[LocaleDataIndex.Directionality];\n }\n\n /\*\*\n \* Retrieves the first value that is defined in an array, going backwards from an index position.\n \* @param index A 0-based index into the array to start from.\n \* @returns The value immediately before the given index position.\n \* @see [Internationalization (i18n) Guide](<https://angular.io/guide/i18n-overview>)\n \* @publicApi\n \* @function getLastDefinedValue<T>(data: T[], index: number): T {\n for (let i = index; i > -1; i--)\n if (typeof data[i] !== 'undefined')\n return data[i];\n }\n throw new Error('Locale data API: locale data undefined');\n }\n\n /\*\*\n \* Represents a time value with hours and minutes.\n \* @publicApi\n \* @export type Time = {\n hours: number,\n minutes: number;\n }\n\n /\*\*\n \* Extracts the hours and minutes from a string like '15:45'\n \* @function extractTime(time: string): Time {\n const [h, m] = time.split(':');\n return {hours: +h, minutes: +m};\n }\n\n /\*\*\n \* Retrieves the currency symbol for a given currency code.\n \* @param code The currency code.\n \* @param format The format, 'wide' or 'narrow'.  
The symbol, or the currency code if no symbol is available.\n \* @see [Internationalization (i18n) Guide](<https://angular.io/guide/i18n-overview>)\n \* @publicApi\n \* @export function getCurrencySymbol(code: string, format: 'wide'|'narrow', locale = 'en'): string {\n const currency = getLocaleCurrencies(locale)[code] || CURRENCIES\_EN[code] || [];\n const symbolNarrow = currency[CurrencyIndex.SymbolNarrow];\n if (format === 'narrow' && typeof symbolNarrow === 'string')\n return symbolNarrow;\n }\n\n return currency[CurrencyIndex.Symbol] || code;\n }\n\n // Most currencies have cents, that's why the default is 2\n const DEFAULT\_NB\_OF\_CURRENCY\_DIGITS = 2;\n\n /\*\*\n \* Reports the number of decimal digits for a given currency.\n \* The value depends upon the presence of cents in that particular currency.\n \* @param code The currency code.\n \* @returns The number of decimal digits, typically 0 or 2.\n \* @see [Internationalization (i18n) Guide](<https://angular.io/guide/i18n-overview>)\n \* @publicApi\n \* @export function getNumberOfCurrencyDigits(code: string): number {\n let digits;\n const currency = CURRENCIES\_EN[code];\n if (currency) {\n digits = currency[CurrencyIndex.NbOfDigits];\n }\n\n return typeof digits === 'number' ? digits : DEFAULT\_NB\_OF\_CURRENCY\_DIGITS;\n }\n\n", "/\*\*\n \* Copyright Google LLC All Rights Reserved.\n \* Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at <https://angular.io/license>\n \*/\n\nimport {FormatWidth, FormStyle, getLocaleDateFormat, getLocaleDateTimeFormat, getLocaleDayNames, getLocaleDayPeriods, getLocaleEraNames, getLocaleExtraDayPeriodRules, getLocaleExtraDayPeriods, getLocaleId, getLocaleMonthNames, getLocaleNumberSymbol, getLocaleTimeFormat,

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NumberSymbol, Time, TranslationWidth} from './locale_data_api';\n\nexport const ISO8601_DATE_REGEX =\n/^(\\d{4})-?(\\d\\d)-?(\\d\\d)(?:T(\\d\\d)(?::(\\d\\d)(?:\\.(\\d+)))?)?(Z|([+-])(\\d\\d):?(\\d\\d))?)?$/;\n// 1 2 3 4 5 6 7 8 9 10 11\nconst NAMED_FORMATS: {[localeId: string]:\n {[format: string]: string}} = {};\nconst DATE_FORMATS_SPLIT =\n/((?:[\\^BEGHLMOSWYZabdhmswyz']+)|(?:'(?![^']*')*(?:G{1,5}|Y{1,4}|M{1,5}|L{1,5}|w{1,2}|W{1}|d{1,2}|E{1,6}|c{1,6}|a{1,5}|b{1,5}|B{1,5}|h{1,2}|H{1,2}|m{1,2}|s{1,2}|S{1,3}|z{1,4}|Z{1,5}|O{1,4})))([\\s\\S]*)/;\n\nenum ZoneWidth {\n Short,\n ShortGMT,\n Long,\n Extended\n}\n\nenum DateType {\n FullYear,\n Month,\n Date,\n Hours,\n Minutes,\n Seconds,\n FractionalSeconds,\n Day\n}\n\nenum TranslationType {\n DayPeriods,\n Days,\n Months,\n Eras\n}\n\n/**\n * @ngModule CommonModule\n * @description\n * Formats a date according\n * to locale rules.\n * @param value The date to format, as a Date, or a number (milliseconds since UTC epoch)\n * or an [ISO date-time string](https://www.w3.org/TR/NOTE-datetime).\n * @param format The date-time\n * components to include. See `DatePipe` for details.\n * @param locale A locale code for the locale format rules to\n * use.\n * @param timezone The time zone. A time zone offset from GMT (such as `+0430`),\n * or a standard\n * UTC/GMT or continental US time zone abbreviation.\n * If not specified, uses host system settings.\n * @returns The formatted date string.\n * @see `DatePipe`\n * @see [Internationalization (i18n)\n * Guide](https://angular.io/guide/i18n-overview)\n * @publicApi\n */\nexport function formatDate(\n value:\n string|number|Date, format: string, locale: string, timezone?: string): string {\n let date = toDate(value);\n const\n namedFormat = getNamedFormat(locale, format);\n format = namedFormat || format;\n\n let parts: string[] = [];\n\n let\n match;\n while (format) {\n match = DATE_FORMATS_SPLIT.exec(format);\n if (match) {\n parts =\n parts.concat(match.slice(1));\n const part = parts.pop();\n if (!part) {\n break;\n }\n format = part;\n } else {\n parts.push(format);\n break;\n }\n }\n\n let dateTzOffset = date.getTimezoneOffset();\n if (timezone) {\n dateTzOffset = timezoneToOffset(timezone, dateTzOffset);\n date =\n convertTzToLocal(date, timezone, true);\n }\n\n let text = '';\n parts.forEach(value => {\n const\n dateFormatter = getDateFormatter(value);\n text += dateFormatter ?\n dateFormatter(date, locale,\n dateTzOffset) :\n value === '\\\\' ? '\\\\' : value.replace(/(\\^|\\$)/g, '\\\\').replace(/"/g, '\\\\');\n });\n\n return\n text;\n}\n\n/**\n * Create a new Date object with the given date value, and the time set to midnight.\n * We\n * cannot use `new Date(year, month, date)` because it maps years between 0 and\n * 99 to 1900-1999.\n * See: https://github.com/angular/angular/issues/40377\n * Note that this function returns a\n * Date object whose time is midnight in the current locale's\n * timezone. In the future we might want to change this\n * to be midnight in UTC, but this would be a\n * considerable breaking change.\n */\nfunction createDate(year:\n number, month: number, date: number): Date {\n // The `newDate` is set to midnight (UTC) on January 1st 1970.\n // - In PST this will be December 31st 1969 at 4pm.\n // - In GMT this will be January 1st 1970 at 1am.\n // Note\n that they even have different years, dates and months!\n const newDate = new Date(0);\n // `setFullYear()`\n allows years like 0001 to be set correctly. This function does not\n // change the internal time of the date.\n // Consider calling `setFullYear(2019, 8, 20)` (September 20, 2019).\n // - In PST this will now be September 20,\n 2019 at 4pm\n // - In GMT this will now be September 20, 2019 at 1am\n\n newDate.setFullYear(year,\n month, date);\n // We want the final date to be at local midnight, so we reset the time.\n // - In PST this will now\n be September 20, 2019 at 12am\n // - In GMT this will now be September 20, 2019 at 12am\n newDate.setHours(0,\n 0, 0);\n\n return newDate;\n}\n\nfunction getNamedFormat(locale: string, format: string): string {\n const localeId\n = getLocaleId(locale);\n NAMED_FORMATS[localeId] = NAMED_FORMATS[localeId] || {};\n\n if\n (NAMED_FORMATS[localeId][format]) {\n return NAMED_FORMATS[localeId][format];\n }\n\n let\n formatValue = '';\n switch (format) {\n case 'shortDate':\n formatValue = getLocaleDateFormat(locale,\n FormatWidth.Short);\n break;\n case 'mediumDate':\n formatValue = getLocaleDateFormat(locale,\n FormatWidth.Medium);\n break;\n case 'longDate':\n formatValue = getLocaleDateFormat(locale,\n FormatWidth.Long);\n break;\n case 'fullDate':\n formatValue = getLocaleDateFormat(locale,\n FormatWidth.Full);\n }\n}

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 break;\n case 'shortTime':\n formatValue = getLocaleTimeFormat(locale, FormatWidth.Short);\n break;\n case 'mediumTime':\n formatValue = getLocaleTimeFormat(locale, FormatWidth.Medium);\n break;\n case 'longTime':\n formatValue = getLocaleTimeFormat(locale, FormatWidth.Long);\n break;\n case 'fullTime':\n formatValue = getLocaleTimeFormat(locale, FormatWidth.Full);\n break;\n case 'short':\n const shortTime = getNamedFormat(locale, 'shortTime');\n const shortDate = getNamedFormat(locale, 'shortDate');\n formatValue = formatDateTime(\n getLocaleDateTimeFormat(locale, FormatWidth.Short),\n [shortTime, shortDate]);\n break;\n case 'medium':\n const mediumTime = getNamedFormat(locale, 'mediumTime');\n const mediumDate = getNamedFormat(locale, 'mediumDate');\n formatValue =\n formatDateTime(\n getLocaleDateTimeFormat(locale, FormatWidth.Medium), [mediumTime,\n mediumDate]);\n break;\n case 'long':\n const longTime = getNamedFormat(locale, 'longTime');\n const longDate =\n getNamedFormat(locale, 'longDate');\n formatValue =\n formatDateTime(getLocaleDateTimeFormat(locale, FormatWidth.Long), [longTime, longDate]);\n break;\n case 'full':\n const fullTime = getNamedFormat(locale, 'fullTime');\n const fullDate =\n getNamedFormat(locale, 'fullDate');\n formatValue =\n formatDateTime(getLocaleDateTimeFormat(locale,\n FormatWidth.Full), [fullTime, fullDate]);\n break;\n }\n if (formatValue) {\n NAMED_FORMATS[localeId][format] = formatValue;\n }\n return formatValue;\n}\n\nfunction\nformatDateTime(str: string, opt_values: string[]) {\n if (opt_values) {\n str = str.replace(/\\{([\\^}]+)\\}/g,\n function(match, key) {\n return (opt_values != null && key in opt_values) ? opt_values[key] : match;\n });\n }\n return str;\n}\n\nfunction padNumber(\n num: number, digits: number, minusSign = '-', trim?:\n boolean, negWrap?: boolean): string {\n let neg = '';\n if (num < 0 || (negWrap && num <= 0)) {\n if (negWrap)\n num = -num + 1;\n } else {\n num = -num;\n neg = minusSign;\n }\n let strNum =\n String(num);\n while (strNum.length < digits) {\n strNum = '0' + strNum;\n }\n if (trim) {\n strNum =\n strNum.substr(strNum.length - digits);\n }\n return neg + strNum;\n}\n\nfunction\nformatFractionalSeconds(milliseconds: number, digits: number): string {\n const strMs = padNumber(milliseconds,\n 3);\n return strMs.substr(0, digits);\n}\n\n/**\n * Returns a date formatter that transforms a date into its locale digit\n representation\n */\nfunction dateGetter(\n name: DateType, size: number, offset: number = 0, trim = false,\n negWrap = false): DateFormatter {\n return function(date: Date, locale: string): string {\n let part =\n getDatePart(name, date);\n if (offset > 0 || part > -offset) {\n part += offset;\n }\n if (name ===\n DateType.Hours)\n {\n if (part === 0 && offset === -12) {\n part = 12;\n }\n } else if (name ===\n DateType.FractionalSeconds) {\n return formatFractionalSeconds(part, size);\n }\n const localeMinus =\n getLocaleNumberSymbol(locale, NumberSymbol.MinusSign);\n return padNumber(part, size, localeMinus, trim,\n negWrap);\n }\n }\n}\n\nfunction getDatePart(part: DateType, date: Date): number {\n switch (part) {\n case\n DateType.FullYear:\n return date.getFullYear();\n case DateType.Month:\n return date.getMonth();\n case\n DateType.Date:\n return date.getDate();\n case DateType.Hours:\n return date.getHours();\n case\n DateType.Minutes:\n return date.getMinutes();\n case DateType.Seconds:\n return date.getSeconds();\n case\n DateType.FractionalSeconds:\n return date.getMilliseconds();\n case DateType.Day:\n return\n date.getDay();\n default:\n throw new Error('Unknown DateType value \'' + part + '\'.');\n }\n}\n\n/**\n * Returns a date formatter that transforms a date into its locale string representation\n */\nfunction\ndateStrGetter(\n name: TranslationType, width: TranslationWidth, form: FormStyle = FormStyle.Format,\n extended = false): DateFormatter {\n return function(date: Date, locale: string): string {\n return\n getDateTranslation(date, locale, name, width, form, extended);\n }\n}\n\n/**\n * Returns the locale translation of a\n date for a given form, type and width\n */\nfunction getDateTranslation(\n date: Date, locale: string, name:\n TranslationType, width: TranslationWidth, form: FormStyle,\n extended: boolean) {\n switch (name) {\n case\n TranslationType.Months:\n return getLocaleMonthNames(locale, form, width)[date.getMonth()];\n case\n TranslationType.Days:\n return getLocaleDayNames(locale, form, width)[date.getDay()];\n case\n TranslationType.DayPeriods:\n const currentHours = date.getHours();\n const currentMinutes =

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date.getMinutes());\n
 if (extended) {\n const rules = getLocaleExtraDayPeriodRules(locale);\n const dayPeriods = getLocaleExtraDayPeriods(locale, form, width);\n const index = rules.findIndex(rule => {\n if (Array.isArray(rule)) {\n // morning, afternoon, evening, night\n const [from, to] = rule;\n const afterFrom = currentHours >= from.hours && currentMinutes >= from.minutes;\n const beforeTo = (currentHours < to.hours ||\n (currentHours === to.hours && currentMinutes < to.minutes));\n // We must account for normal rules that span a period during the day (e.g. 6am-9am)\n // where `from` is less (earlier) than `to`. But also rules that span midnight (e.g. 10pm - 5am) where `from` is greater (later!) than `to`.\n // In the first case the current time must be BOTH after `from` AND before `to`\n // (e.g. 8am is after 6am AND before 10am).\n // In the second case the current time must be EITHER after `from` OR before `to`\n // (e.g. 4am is before 5am but not after 10pm; and 11pm is not before 5am but it is after 10pm).\n if (from.hours < to.hours) {\n if (afterFrom && beforeTo) {\n return true;\n }\n } else if (afterFrom || beforeTo) {\n return true;\n } else {\n // noon or midnight\n if (rule.hours === currentHours && rule.minutes === currentMinutes) {\n return true;\n }\n }\n return false;\n });\n if (index !== -1) {\n return dayPeriods[index];\n }\n // if no rules for the day periods, we use am/pm by default\n return getLocaleDayPeriods(locale, form, <TranslationWidth>width)[currentHours < 12 ? 0 : 1];\n case TranslationType.Eras:\n return getLocaleEraNames(locale, <TranslationWidth>width)[date.getFullYear() <= 0 ? 0 : 1];\n default:\n // This default case is not needed by TypeScript compiler, as the switch is exhaustive.\n // However Closure Compiler does not understand that and reports an error in typed mode.\n // The `throw new Error` below works around the problem, and the unexpected: never variable\n // makes sure tsc still checks this code is unreachable.\n const unexpected: never = name;\n throw new Error(`unexpected translation type ${unexpected}`);\n }\n }\n /**\n * Returns a date formatter that transforms a date and an offset into a timezone with ISO8601 or\n * GMT format depending on the width (eg: short = +0430, short:GMT = GMT+4, long = GMT+04:30,\n * extended = +04:30)\n */\n function timeZoneGetter(width: ZoneWidth): DateFormatter {\n return function(date: Date, locale: string, offset: number) {\n const zone = -1 * offset;\n const minusSign = getLocaleNumberSymbol(locale, NumberSymbol.MinusSign);\n const hours = zone > 0 ? Math.floor(zone / 60) : Math.ceil(zone / 60);\n switch (width) {\n case ZoneWidth.Short:\n return ((zone >= 0) ? '+' : '-') + padNumber(hours, 2, minusSign) +\n padNumber(Math.abs(zone % 60), 2, minusSign);\n case ZoneWidth.ShortGMT:\n return 'GMT' + ((zone >= 0) ? '+' : '-') + padNumber(hours, 1, minusSign);\n case ZoneWidth.Long:\n return 'GMT' + ((zone >= 0) ? '+' : '-') + padNumber(hours, 2, minusSign) + ':' +\n padNumber(Math.abs(zone % 60), 2, minusSign);\n case ZoneWidth.Extended:\n if (offset === 0) {\n return 'Z';\n } else {\n return ((zone >= 0) ? '+' : '-') + padNumber(hours, 2, minusSign) + ':' +\n padNumber(Math.abs(zone % 60), 2, minusSign);\n }\n default:\n throw new Error(`Unknown zone width \"${width}\"`);\n }\n }\n }\n const JANUARY = 0;\n const THURSDAY = 4;\n function getFirstThursdayOfYear(year: number) {\n const firstDayOfYear = createDate(year, JANUARY, 1).getDay();\n return createDate(year, 0, 1 + ((firstDayOfYear <= THURSDAY) ? THURSDAY : THURSDAY + 7) - firstDayOfYear);\n }\n function getThursdayThisWeek(datetime: Date) {\n return createDate(datetime.getFullYear(), datetime.getMonth(),\n datetime.getDate() + (THURSDAY - datetime.getDay()));\n }\n function weekGetter(size: number, monthBased = false): DateFormatter {\n return function(date: Date, locale: string) {\n let result;\n if (monthBased) {\n const nbDaysBefore1stDayOfMonth = new Date(date.getFullYear(), date.getMonth(), 1).getDay() - 1;\n const today = date.getDate();\n result = 1 + Math.floor((today + nbDaysBefore1stDayOfMonth) / 7);\n } else {\n const thisThurs = getThursdayThisWeek(date);\n // Some days of a year are part of next year according to ISO 8601.\n // Compute the firstThurs from the year of this week's Thursday\n const firstThurs = getFirstThursdayOfYear(thisThurs.getFullYear());\n const diff = thisThurs.getTime() - firstThurs.getTime();\n result = 1 + Math.round(diff / 6.048e8); // 6.048e8 ms per week\n }\n return padNumber(result, size, getLocaleNumberSymbol(locale, NumberSymbol.MinusSign));\n }\n }\n /**\n * Returns

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a date formatter that provides the week-numbering year for the input date.\n */\nfunction
weekNumberingYearGetter(size: number, trim = false): DateFormatter {\n return function(date: Date, locale:
string) {\n const thisThurs = getThursdayThisWeek(date);\n const weekNumberingYear =
thisThurs.getFullYear();\n return padNumber(\n weekNumberingYear, size, getLocaleNumberSymbol(locale,
NumberSymbol.MinusSign), trim);\n };\n}\n\ntype DateFormatter = (date: Date, locale: string, offset: number) =>
string;\n\nconst DATE_FORMATS: {[format: string]: DateFormatter} = {};\n\n// Based on CLDR formats:\n// See
complete list: http://www.unicode.org/reports/tr35/tr35-dates.html#Date_Field_Symbol_Table\n//
See also explanations: http://cldr.unicode.org/translation/date-time\n\n// TODO(ocombe): support all missing cldr
formats: U, Q, D, F, e, j, J, C, A, v, V, X, x\n\nfunction getDateFormatter(format: string): DateFormatter|null {\n if
(DATE_FORMATS[format]) {\n return DATE_FORMATS[format];\n }\n let formatter;\n switch (format) {\n
// Era name (AD/BC)\n case 'G':\n case 'GG':\n case 'GGG':\n formatter =
dateStrGetter(TranslationType.Eras, TranslationWidth.Abbreviated);\n break;\n case 'GGGG':\n formatter =
dateStrGetter(TranslationType.Eras, TranslationWidth.Wide);\n break;\n case 'GGGGG':\n formatter =
dateStrGetter(TranslationType.Eras, TranslationWidth.Narrow);\n break;\n\n // 1 digit representation of the
year, e.g. (AD 1 => 1, AD 199 => 199)\n case 'y':\n formatter = dateGetter(DateType.FullYear, 1, 0, false,
true);\n break;\n\n // 2 digit representation of
the year, padded (00-99). (e.g. AD 2001 => 01, AD 2010 => 10)\n case 'yy':\n formatter =
dateGetter(DateType.FullYear, 2, 0, true, true);\n break;\n\n // 3 digit representation of the year, padded (000-
999). (e.g. AD 2001 => 001, AD 2010 => 010)\n case 'yyy':\n formatter = dateGetter(DateType.FullYear, 3, 0,
false, true);\n break;\n\n // 4 digit representation of the year (e.g. AD 1 => 0001, AD 2010 => 2010)\n case
'yyyy':\n formatter = dateGetter(DateType.FullYear, 4, 0, false, true);\n break;\n\n // 1 digit representation of
the week-numbering year, e.g. (AD 1 => 1, AD 199 => 199)\n case 'Y':\n formatter =
weekNumberingYearGetter(1);\n break;\n\n // 2 digit representation of the week-numbering year, padded (00-
99). (e.g. AD 2001 => 01, AD\n // 2010 => 10)\n case 'YY':\n formatter = weekNumberingYearGetter(2,
true);\n break;\n\n // 3 digit representation of the week-numbering year, padded (000-999). (e.g. AD 1 =>
001, AD\n // 2010 => 010)\n case 'YYY':\n formatter = weekNumberingYearGetter(3);\n break;\n\n // 4
digit representation of the week-numbering year (e.g. AD 1 => 0001, AD 2010 => 2010)\n case 'YYYY':\n formatter =
weekNumberingYearGetter(4);\n break;\n\n // Month of the year (1-12), numeric\n case 'M':\n case 'L':\n formatter = dateGetter(DateType.Month, 1, 1);\n break;\n case 'MM':\n case 'LL':\n formatter = dateGetter(DateType.Month, 2, 1);\n break;\n\n // Month of the year (January, ...), string, format\n case 'MMM':\n formatter = dateStrGetter(TranslationType.Months, TranslationWidth.Abbreviated);\n break;\n case 'MMMM':\n formatter = dateStrGetter(TranslationType.Months, TranslationWidth.Wide);\n break;\n case 'MMMMM':\n formatter = dateStrGetter(TranslationType.Months, TranslationWidth.Narrow);\n break;\n\n // Month of the year (January, ...), string, standalone\n case
'LLL':\n formatter =\n dateStrGetter(TranslationType.Months, TranslationWidth.Abbreviated,
FormStyle.Standalone);\n break;\n case 'LLLL':\n formatter =\n dateStrGetter(TranslationType.Months, TranslationWidth.Wide, FormStyle.Standalone);\n break;\n case
'LLLLL':\n formatter =\n dateStrGetter(TranslationType.Months, TranslationWidth.Narrow,
FormStyle.Standalone);\n break;\n\n // Week of the year (1, ... 52)\n case 'w':\n formatter =
weekGetter(1);\n break;\n case 'ww':\n formatter = weekGetter(2);\n break;\n\n // Week of the month
(1, ...)\n case 'W':\n formatter = weekGetter(1, true);\n break;\n\n // Day of the month (1-31)\n case 'd':\n formatter = dateGetter(DateType.Date, 1);\n break;\n case 'dd':\n formatter = dateGetter(DateType.Date,
2);\n break;\n\n // Day of the Week StandAlone (1, 1, Mon, Monday, M, Mo)\n case 'c':\n case 'cc':\n formatter = dateGetter(DateType.Day, 1);\n break;\n case 'ccc':\n formatter =\n dateStrGetter(TranslationType.Days, TranslationWidth.Abbreviated, FormStyle.Standalone);\n break;\n case
'cccc':\n formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Wide, FormStyle.Standalone);\n break;\n case 'ccccc':\n formatter =\n dateStrGetter(TranslationType.Days, TranslationWidth.Narrow,
FormStyle.Standalone);\n break;\n case 'ccccc':\n formatter = dateStrGetter(TranslationType.Days,

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TranslationWidth.Short, FormStyle.Standalone);\n break;\n\n // Day of the Week\n case 'E':\n case 'EE':\n case 'EEE':\n formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Abbreviated);\n break;\n case 'EEEE':\n formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Wide);\n break;\n case 'EEEEE':\n formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Narrow);\n break;\n case 'EEEEEE':\n formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Short);\n break;\n\n // Generic period of the day (am-pm)\n case 'a':\n case 'aa':\n case 'aaa':\n formatter = dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Abbreviated);\n break;\n case 'aaaa':\n formatter = dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Wide);\n break;\n case 'aaaaa':\n formatter = dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Narrow);\n break;\n\n // Extended period of the day (midnight, at night, ...), standalone\n case 'b':\n case 'bb':\n case 'bbb':\n formatter = dateStrGetter(\n TranslationType.DayPeriods, TranslationWidth.Abbreviated, FormStyle.Standalone, true);\n break;\n case 'bbbb':\n formatter = dateStrGetter(\n TranslationType.DayPeriods, TranslationWidth.Wide, FormStyle.Standalone, true);\n break;\n case 'bbbbb':\n formatter = dateStrGetter(\n TranslationType.DayPeriods, TranslationWidth.Narrow, FormStyle.Standalone, true);\n break;\n\n // Extended period of the day (midnight, night, ...), standalone\n case 'B':\n case 'BB':\n case 'BBB':\n formatter = dateStrGetter(\n TranslationType.DayPeriods, TranslationWidth.Abbreviated, FormStyle.Format, true);\n break;\n case 'BBBB':\n formatter = dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Wide, FormStyle.Format, true);\n break;\n case 'BBBBB':\n formatter = dateStrGetter(\n TranslationType.DayPeriods, TranslationWidth.Narrow, FormStyle.Format, true);\n break;\n\n // Hour in AM/PM, (1-12)\n case 'h':\n formatter = dateGetter(DateType.Hours, 1, -12);\n break;\n case 'hh':\n formatter = dateGetter(DateType.Hours, 2, -12);\n break;\n\n // Hour of the day (0-23)\n case 'H':\n formatter = dateGetter(DateType.Hours, 1);\n break;\n // Hour in day, padded (00-23)\n case 'HH':\n formatter = dateGetter(DateType.Hours, 2);\n break;\n\n // Minute of the hour (0-59)\n case 'm':\n formatter = dateGetter(DateType.Minutes, 1);\n break;\n case 'mm':\n formatter = dateGetter(DateType.Minutes, 2);\n break;\n\n // Second of the minute (0-59)\n case 's':\n formatter = dateGetter(DateType.Seconds, 1);\n break;\n case 'ss':\n formatter = dateGetter(DateType.Seconds, 2);\n break;\n\n // Fractional second\n case 'S':\n formatter = dateGetter(DateType.FractionalSeconds, 1);\n break;\n case 'SS':\n formatter = dateGetter(DateType.FractionalSeconds, 2);\n break;\n case 'SSS':\n formatter = dateGetter(DateType.FractionalSeconds, 3);\n break;\n\n // Timezone ISO8601 short format (-0430)\n case 'Z':\n case 'ZZ':\n case 'ZZZ':\n formatter = timeZoneGetter(ZoneWidth.Short);\n break;\n // Timezone ISO8601 extended format (-04:30)\n case 'ZZZZ':\n formatter = timeZoneGetter(ZoneWidth.Extended);\n break;\n\n // Timezone GMT short format (GMT+4)\n case 'O':\n case 'OO':\n case 'OOO':\n // Should be location, but fallback to format O instead because we don't have the data yet\n formatter = timeZoneGetter(ZoneWidth.ShortGMT);\n break;\n // Timezone GMT long format (GMT+0430)\n case 'OOOO':\n case 'ZZZZ':\n // Should be location, but fallback to format O instead because we don't have the data yet\n formatter = timeZoneGetter(ZoneWidth.Long);\n break;\n default:\n return null;\n }\n DATE_FORMATS[format] = formatter;\n return formatter;\n}\n\nfunction timezoneToOffset(timezone: string, fallback: number): number {\n // Support: IE 11 only, Edge 13-15+\n // IE/Edge do not \"understand\" colon (':') in timezone\n timezone = timezone.replace(/:/g, \"\");\n const requestedTimezoneOffset = Date.parse('Jan 01, 1970 00:00:00 ' + timezone) / 60000;\n return isNaN(requestedTimezoneOffset) ? fallback : requestedTimezoneOffset;\n}\n\nfunction addDateMinutes(date: Date, minutes: number) {\n date = new Date(date.getTime());\n date.setMinutes(date.getMinutes() + minutes);\n return date;\n}\n\nfunction convertTimezoneToLocal(date: Date, timezone: string, reverse: boolean): Date {\n const reverseValue = reverse ? -1 : 1;\n const dateTimezoneOffset = date.getTimezoneOffset();\n const timezoneOffset = timezoneToOffset(timezone, date.getTimezoneOffset());\n return addDateMinutes(date, reverseValue * (timezoneOffset - date.getTimezoneOffset()));\n}\n\n/**\n * Converts a value to date.\n * Supported input formats:\n * - `Date`\n * - number: timestamp\n * - string: numeric (e.g. \"1234\"), ISO

```



and date strings in a format supported by `Date.parse()` ([https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Date/parse](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date/parse)).

\* Note: ISO strings without time return a date without timeoffset.  
\* Throws if unable to convert to a date.  
\* `export function toDate(value: string|number|Date): Date` {  
 if (isDate(value)) {  
 return value;  
 }  
 if (typeof value === 'number' && !isNaN(value)) {  
 return new Date(value);  
 }  
 if (typeof value === 'string') {  
 value = value.trim();  
 if (/^\d{4}(-\d{1,2}(-\d{1,2})?)?\$/.test(value)) {  
 /\* For ISO Strings without time the day, month and year must be extracted from the ISO String before Date creation to avoid time offset and errors in the new Date.  
 If we only replace '-' with ',' in the ISO String ("2015,01,01"), and try to create a new date, some browsers (e.g. IE 9) will throw an invalid Date error.  
 If we leave the '-' ("2015-01-01") and try to create a new Date("2015-01-01") the timeoffset is applied.  
 Note: ISO months are 0 for January,

1 for February, ... \*/  
 const [y, m = 1, d = 1] = value.split(',').map((val: string) => +val);  
 return createDate(y, m - 1, d);  
 }  
 const parsedNb = parseFloat(value);  
 // any string that only contains numbers, like "1234" but not like "1234hello"  
 if (!isNaN(value as any) - parsedNb) {  
 return new Date(parsedNb);  
 }  
 let match: RegExpMatchArray|null; if (match = value.match(ISO8601\_DATE\_REGEX)) {  
 return isoStringToDate(match);  
 }  
 const date = new Date(value as any);  
 if (!isDate(date)) {  
 throw new Error(`Unable to convert "\${value}" into a date`);  
 }  
 return date;  
}  
\* Converts a date in ISO8601 to a Date.  
\* Used instead of `Date.parse` because of browser discrepancies.  
\* `export function isoStringToDate(match: RegExpMatchArray): Date` {  
 const date = new Date(0);  
 let tzHour = 0;  
 let tzMin = 0;  
 // match[8] means that the string contains "Z" (UTC) or a timezone like  
 "+01:00" or "+0100"  
 const dateSetter = match[8] ? date.setUTCFullYear : date.setFullYear;  
 const timeSetter = match[8] ? date.setUTCHours : date.setHours;  
 // if there is a timezone defined like "+01:00" or "+0100"  
 if (match[9]) {  
 tzHour = Number(match[9] + match[10]);  
 tzMin = Number(match[9] + match[11]);  
 }  
 dateSetter.call(date, Number(match[1]), Number(match[2]) - 1, Number(match[3]));  
 const h = Number(match[4] || 0) - tzHour;  
 const m = Number(match[5] || 0) - tzMin;  
 const s = Number(match[6] || 0);  
 // The ECMAScript specification (<https://www.ecma-international.org/ecma-262/5.1/#sec-15.9.1.11>) defines that `DateTime` milliseconds should always be rounded down, so that `999.9ms` becomes `999ms`.  
 const ms = Math.floor(parseFloat('0.' + (match[7] || 0)) \* 1000);  
 timeSetter.call(date, h, m, s, ms);  
 return date;  
}  
\* `export function isDate(value: any): value is Date` {  
 return value instanceof Date && !isNaN(value.valueOf());  
}

\* @license  
\* Copyright Google LLC All Rights Reserved.  
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\* `import {getLocaleNumberFormat, getLocaleNumberSymbol, getNumberOfCurrencyDigits, NumberFormatStyle, NumberSymbol} from './locale_data_api';`  
\* `export const NUMBER_FORMAT_REGEX = /^(\d+)?\.\d+$/;`  
\* `const MAX_DIGITS = 22;`  
\* `const DECIMAL_SEP = '.';`  
\* `const ZERO_CHAR = '0';`  
\* `const PATTERN_SEP = ',';`  
\* `const GROUP_SEP = ',';`  
\* `const DIGIT_CHAR = '#';`  
\* `const CURRENCY_CHAR = '¤';`  
\* `const PERCENT_CHAR = '%';`  
\* Transforms a number to a locale string based on a style and a format.  
\* `function formatNumberToLocaleString(value: number, pattern: ParsedNumberFormat, locale: string, groupSymbol: NumberSymbol, decimalSymbol: NumberSymbol, digitsInfo?: string, isPercent = false): string` {  
 let formattedText = "";  
 let isZero = false;  
 if (!isFinite(value)) {  
 formattedText = getLocaleNumberSymbol(locale, NumberSymbol.Infinity);  
 } else {  
 let parsedNumber = parseNumber(value);  
 if (isPercent) {  
 parsedNumber = toPercent(parsedNumber);  
 }  
 let minInt = pattern.minInt; let minFraction = pattern.minFrac; let maxFraction = pattern.maxFrac;  
 if (digitsInfo) {  
 const parts = digitsInfo.match(NUMBER\_FORMAT\_REGEX);  
 if (parts === null) {  
 throw new Error(`\${digitsInfo} is not a valid digit info`);  
 }  
 const minIntPart = parts[1];  
 const minFractionPart = parts[3];  
 const maxFractionPart = parts[5];  
 if (minIntPart != null) {  
 minInt = parseIntAutoRadix(minIntPart);  
 }  
 if (minFractionPart != null) {  
 minFraction =

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parseIntAutoRadix(minFractionPart);\n }\n if (maxFractionPart != null) {\n maxFraction =
parseIntAutoRadix(maxFractionPart);\n } else if (minFractionPart != null &&
 minFraction > maxFraction) {\n maxFraction = minFraction;\n }\n}\n\nroundNumber(parsedNumber,
minFraction, maxFraction);\n\nlet digits = parsedNumber.digits;\nlet integerLen = parsedNumber.integerLen;\n\nconst exponent = parsedNumber.exponent;\nlet decimals = [];\nlet isZero = digits.every(d => !d);\n\n// pad
zeros for small numbers\nfor (; integerLen < minInt; integerLen++) {\n digits.unshift(0);\n}\n\n// pad
zeros for small numbers\nfor (; integerLen < 0; integerLen++) {\n digits.unshift(0);\n}\n\n// extract
decimals digits\nif (integerLen > 0) {\n decimals = digits.splice(integerLen, digits.length);\n} else {\n
decimals = digits;\n digits = [0];\n}\n\n// format the integer digits with grouping separators\nconst groups
= [];\nif (digits.length >= pattern.lgSize) {\n groups.unshift(digits.splice(-pattern.lgSize,
digits.length).join(""));}\n\nwhile (digits.length
> pattern.gSize) {\n groups.unshift(digits.splice(-pattern.gSize, digits.length).join(""));}\n}\n\nif
(digits.length) {\n groups.unshift(digits.join(""));}\n}\n\nformattedText =
groups.join(getLocaleNumberSymbol(locale, groupSymbol));\n\n// append the decimal digits\nif
(decimals.length) {\n formattedText += getLocaleNumberSymbol(locale, decimalSymbol) + decimals.join("");\n
}\n\nif (exponent) {\n formattedText += getLocaleNumberSymbol(locale, NumberSymbol.Exponential) + '+' +
exponent;\n}\n}\n\nif (value < 0 && !isZero) {\n formattedText = pattern.negPre + formattedText +
pattern.negSuf;\n} else {\n formattedText = pattern.posPre + formattedText + pattern.posSuf;\n}\n}\n\nreturn
formattedText;\n}\n\n/**\n * @ngModule CommonModule\n * @description\n * Formats a number as currency
using locale rules.\n * @param value The number to format.\n * @param locale A locale code for the locale
format rules to use.\n * @param
currency A string containing the currency symbol or its name.\n * such as \"$\" or \"Canadian Dollar\". Used in
output string, but does not affect the operation\n * of the function.\n * @param currencyCode The [ISO
4217](https://en.wikipedia.org/wiki/ISO_4217)\n * currency code, such as `USD` for the US dollar and `EUR` for
the euro.\n * Used to determine the number of digits in the decimal part.\n * @param digitsInfo Decimal
representation options, specified by a string in the following format:\n * `{minIntegerDigits}.{minFractionDigits}-
{maxFractionDigits}`. See `DecimalPipe` for more details.\n * @returns The formatted currency value.\n * @see `formatNumber()`\n * @see `DecimalPipe`\n * @see [Internationalization (i18n)
Guide](https://angular.io/guide/i18n-overview)\n * @publicApi\n * @nexport function formatCurrency(\n
value: number, locale: string, currency: string, currencyCode?: string,\n digitsInfo?: string): string {\n const
format = getLocaleNumberFormat(locale,
 NumberFormatStyle.Currency);\n const pattern = parseNumberFormat(format, getLocaleNumberSymbol(locale,
 NumberSymbol.MinusSign));\n pattern.minFrac = getNumberOfCurrencyDigits(currencyCode!);\n
 pattern.maxFrac = pattern.minFrac;\n const res = formatNumberToLocaleString(\n value, pattern, locale,
 NumberSymbol.CurrencyGroup, NumberSymbol.CurrencyDecimal, digitsInfo);\n return res\n
.replace(CURRENCY_CHAR, currency)\n // if we have 2 time the currency character, the second one is
ignored\n .replace(CURRENCY_CHAR, "")\n // If there is a spacing between currency character and the value
and\n // the currency character is suppressed by passing an empty string, the\n // spacing character would
remain as part of the string. Then we\n // should remove it.\n .trim());\n}\n\n/**\n * @ngModule
CommonModule\n * @description\n * Formats a number as a percentage according to locale rules.\n * @param value The number to format.\n *
@param locale A locale code for the locale format rules to use.\n * @param digitsInfo Decimal representation
options, specified by a string in the following format:\n * `{minIntegerDigits}.{minFractionDigits}-
{maxFractionDigits}`. See `DecimalPipe` for more details.\n * @returns The formatted percentage value.\n * @see `formatNumber()`\n * @see `DecimalPipe`\n * @see [Internationalization (i18n)
Guide](https://angular.io/guide/i18n-overview)\n * @publicApi\n * @nexport function formatPercent(value:
number, locale: string, digitsInfo?: string): string {\n const format = getLocaleNumberFormat(locale,
 NumberFormatStyle.Percent);\n const pattern = parseNumberFormat(format, getLocaleNumberSymbol(locale,

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NumberSymbol.MinusSign));\n const res = formatNumberToLocaleString(\n value, pattern, locale,\n NumberSymbol.Group, NumberSymbol.Decimal, digitsInfo, true);\n return res.replace(\n new\n RegExp(PERCENT_CHAR, 'g'), getLocaleNumberSymbol(locale, NumberSymbol.PercentSign));\n}\n\n/**\n * @ngModule CommonModule\n * @description\n * \n * Formats a number as text, with group sizing, separator,\n and other\n * parameters based on the locale.\n * \n * @param value The number to format.\n * @param locale A\n locale code for the locale format rules to use.\n * @param digitsInfo Decimal representation options, specified by a\n string in the following format:\n * `{minIntegerDigits}.{minFractionDigits}-{maxFractionDigits}`. See\n `DecimalPipe` for more details.\n * \n * @returns The formatted text string.\n * @see [Internationalization (i18n)\n Guide](https://angular.io/guide/i18n-overview)\n * \n * @publicApi\n */\nexport function formatNumber(value:\n number, locale: string, digitsInfo?: string): string {\n const format = getLocaleNumberFormat(locale,\n NumberFormatStyle.Decimal);\n const pattern = parseNumberFormat(format, getLocaleNumberSymbol(locale,\n NumberSymbol.MinusSign));\n return formatNumberToLocaleString(\n value, pattern, locale,\n NumberSymbol.Group, NumberSymbol.Decimal,\n digitsInfo);\n}\n\ninterface ParsedNumberFormat {\n minInt: number;\n // the minimum number of digits required\nin the fraction part of the number\n minFrac: number;\n // the maximum number of digits required in the fraction\npart of the number\n maxFrac: number;\n // the prefix for a positive number\n posPre: string;\n // the suffix for a\npositive number\n posSuf: string;\n // the prefix for a negative number (e.g. `` or `(`))\n negPre: string;\n // the\nsuffix for a negative number (e.g. `)`)\n negSuf: string;\n // number of digits in each group of separated digits\n gSize: number;\n // number of digits in the last group of digits before the decimal separator\n lgSize:\nnumber;\n}\n\nfunction parseNumberFormat(format: string, minusSign = '-'): ParsedNumberFormat {\n const p =\n{\n minInt: 1,\n minFrac: 0,\n maxFrac: 0,\n posPre: '',\n posSuf: '',\n negPre: '',\n negSuf: '',\n gSize:\n0,\n lgSize: 0\n};\n const patternParts = format.split(PATTERN_SEP);\n\n const positive = patternParts[0];\n const negative = patternParts[1];\n\n const positiveParts =\npositive.indexOf(DECIMAL_SEP) !== -1 ?\n positive.split(DECIMAL_SEP) : [\n positive.substring(0,\n positive.lastIndexOf(ZERO_CHAR) + 1),\n positive.substring(positive.lastIndexOf(ZERO_CHAR) + 1)\n];\n integer = positiveParts[0], fraction = positiveParts[1] || '';\n p.posPre = integer.substr(0,\ninteger.indexOf(DIGIT_CHAR));\n for (let i = 0; i < fraction.length; i++) {\n const ch = fraction.charAt(i);\nif (ch === ZERO_CHAR) {\n p.minFrac = p.maxFrac = i + 1;\n } else if (ch === DIGIT_CHAR) {\n p.maxFrac = i + 1;\n } else {\n p.posSuf += ch;\n }\n }\n\n const groups = integer.split(GROUP_SEP);\n p.gSize = groups[1] ? groups[1].length : 0;\n p.lgSize = (groups[2] || groups[1]) ? (groups[2] || groups[1]).length :\n0;\n\n if (negative) {\n const trunkLen = positive.length - p.posPre.length\n - p.posSuf.length;\n pos = negative.indexOf(DIGIT_CHAR);\n p.negPre = negative.substr(0,\npos).replace(/\\/g, '');\n p.negSuf = negative.substr(pos + trunkLen).replace(/\\/g, '');\n } else {\n p.negPre =\nminusSign + p.posPre;\n p.negSuf = p.posSuf;\n }\n\n return p;\n}\n\ninterface ParsedNumber {\n // an array of\ndigits containing leading zeros as necessary\n digits: number[];\n // the exponent for numbers that would need more\nthan `MAX_DIGITS` digits in `d`\n exponent: number;\n // the number of the digits in `d` that are to the left of the\ndecimal point\n integerLen: number;\n}\n\n// Transforms a parsed number into a percentage by multiplying it by\n100\nfunction toPercent(parsedNumber: ParsedNumber): ParsedNumber {\n // if the number is 0, don't do\nanything\n if (parsedNumber.digits[0] === 0) {\n return parsedNumber;\n }\n\n // Getting the current number of\ndecimals\n const fractionLen = parsedNumber.digits.length - parsedNumber.integerLen;\n\n if (parsedNumber.exponent) {\n parsedNumber.exponent += 2;\n } else {\n if (fractionLen === 0) {\n parsedNumber.digits.push(0, 0);\n } else if (fractionLen === 1) {\n parsedNumber.digits.push(0);\n }\n parsedNumber.integerLen += 2;\n }\n\n return parsedNumber;\n}\n\n/**\n * \n * Parses a number.\n * \n * Significant bits\nof this parse algorithm came from https://github.com/MikeMcl/big.js\n */\nfunction parseNumber(num: number):\nParsedNumber {\n let numStr = Math.abs(num) + '';\n let exponent = 0, digits, integerLen;\n let i, j, zeros;\n\n //\nDecimal point?\n if ((integerLen = numStr.indexOf(DECIMAL_SEP)) > -1) {\n numStr =\numStr.replace(DECIMAL_SEP, '');\n }\n\n // Exponential form?\n if ((i = numStr.search(/e/i)) > 0) {\n // Work\nout the exponent.\n if (integerLen < 0) integerLen = i;\n integerLen += +numStr.slice(i + 1);\n numStr =
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numStr.substring(0, i);\n } else if (integerLen < 0) {\n // There was no decimal point or exponent so it is
an integer.\n integerLen = numStr.length;\n }\n\n // Count the number of leading zeros.\n for (i = 0;
numStr.charAt(i) === ZERO_CHAR; i++) { /* empty */\n\n if (i === (zeros = numStr.length)) {\n // The
digits are all zero.\n digits = [0];\n integerLen = 1;\n } else {\n // Count the number of trailing zeros\n zeros-
;\n while (numStr.charAt(zeros) === ZERO_CHAR) zeros--;\n\n // Trailing zeros are insignificant so ignore
them\n integerLen -= i;\n digits = [];\n // Convert string to array of digits without leading/trailing zeros.\n for
(j = 0; i <= zeros; i++, j++) {\n digits[j] = Number(numStr.charAt(i));\n }\n }\n\n // If the number overflows
the maximum allowed digits then use an exponent.\n if (integerLen > MAX_DIGITS) {\n digits = digits.splice(0,
MAX_DIGITS - 1);\n exponent = integerLen - 1;\n integerLen = 1;\n }\n\n return {digits, exponent,
integerLen};\n}\n\n/**\n * Round the parsed number to the specified number
of decimal places\n * This function changes the parsedNumber in-place\n */\nfunction
roundNumber(parsedNumber: ParsedNumber, minFrac: number, maxFrac: number) {\n if (minFrac > maxFrac) {\n
throw new Error(`The minimum number of digits after fraction (${minFrac}) is higher than the maximum
(${maxFrac}).`);\n }\n\n let digits = parsedNumber.digits;\n let fractionLen = digits.length -
parsedNumber.integerLen;\n const fractionSize = Math.min(Math.max(minFrac, fractionLen), maxFrac);\n\n //
The index of the digit to where rounding is to occur\n let roundAt = fractionSize + parsedNumber.integerLen;\n let
digit = digits[roundAt];\n\n if (roundAt > 0) {\n // Drop fractional digits beyond `roundAt`\n
digits.splice(Math.max(parsedNumber.integerLen, roundAt));\n\n // Set non-fractional digits beyond `roundAt` to
0\n for (let j = roundAt; j < digits.length; j++) {\n digits[j] = 0;\n }\n } else {\n // We rounded to zero so
reset the parsedNumber\n
fractionLen = Math.max(0, fractionLen);\n parsedNumber.integerLen = 1;\n digits.length = Math.max(1,
roundAt = fractionSize + 1);\n digits[0] = 0;\n for (let i = 1; i < roundAt; i++) digits[i] = 0;\n }\n\n if (digit >=
5) {\n if (roundAt - 1 < 0) {\n for (let k = 0; k > roundAt; k--) {\n digits.unshift(0);\n
parsedNumber.integerLen++;\n }\n digits.unshift(1);\n parsedNumber.integerLen++;\n } else {\n
digits[roundAt - 1]++;\n }\n }\n\n // Pad out with zeros to get the required fraction length\n for (; fractionLen <
Math.max(0, fractionSize); fractionLen++) digits.push(0);\n\n let dropTrailingZeros = fractionSize !== 0;\n //
Minimal length = nb of decimals required + current nb of integers\n // Any number besides that is optional and can
be removed if it's a trailing 0\n const minLen = minFrac + parsedNumber.integerLen;\n // Do any carrying, e.g. a
digit was rounded up to 10\n const carry = digits.reduceRight(function(carry,
d, i, digits) {\n d = d + carry;\n digits[i] = d < 10 ? d : d - 10; // d % 10\n if (dropTrailingZeros) {\n // Do
not keep meaningless fractional trailing zeros (e.g. 15.52000 --> 15.52)\n if (digits[i] === 0 && i >= minLen) {\n
digits.pop();\n } else {\n dropTrailingZeros = false;\n }\n }\n return d >= 10 ? 1 : 0; //
Math.floor(d / 10);\n }, 0);\n if (carry) {\n digits.unshift(carry);\n parsedNumber.integerLen++;\n
}\n}\n\nexport function parseIntAutoRadix(text: string): number {\n const result: number = parseInt(text);\n if
(isNaN(result)) {\n throw new Error('Invalid integer literal when parsing ' + text);\n }\n return result;\n}\n\n",
/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Inject,
Injectable, LOCALE_ID} from '@angular/core';\n\nimport
{getLocalePluralCase, Plural} from './locale_data_api';\n\n/**\n * @publicApi\n */\n\n@Injectable({\n providedIn:
'root',\n useFactory: (locale: string) => new NgLocaleLocalization(locale),\n deps: [LOCALE_ID],\n})\n\nexport
abstract class NgLocalization {\n abstract getPluralCategory(value: any, locale?: string): string;\n\n\n/**\n *
Returns the plural category for a given value.\n * - "="value" when the case exists,\n * - the plural category
otherwise\n */\n\nexport function getPluralCategory(\n value: number, cases: string[], ngLocalization:
NgLocalization, locale?: string): string {\n let key = `=${value}`;\n\n if (cases.indexOf(key) > -1) {\n return
key;\n }\n\n key = ngLocalization.getPluralCategory(value, locale);\n\n if (cases.indexOf(key) > -1) {\n return
key;\n }\n\n if (cases.indexOf('other') > -1) {\n return 'other';\n }\n\n throw new Error('No plural message found
for value `\"${value}\"`);\n}\n\n\n/**\n * Returns the plural case based on the locale\n

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 * @publicApi\n * @Injectable()\nexport class NgLocaleLocalization extends NgLocalization {\n
 constructor(@Inject(LOCALE_ID) protected locale: string) {\n super();\n }\n\n override
 getPluralCategory(value: any, locale?: string): string {\n const plural = getLocalePluralCase(locale ||
 this.locale)(value);\n\n switch (plural) {\n case Plural.Zero:\n return 'zero';\n case Plural.One:\n
 return 'one';\n case Plural.Two:\n return 'two';\n case Plural.Few:\n return 'few';\n case
 Plural.Many:\n return 'many';\n default:\n return 'other';\n }\n }\n\n }, /**\n * @license\n * Copyright
 Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n
 * found in the LICENSE file at https://angular.io/license\n */\n\n import {registerLocaleData} from
 '@angular/core';\n\n /**\n * Register global data to be used internally by Angular. See the\n * ["I18n
 guide"](guide/i18n-common-format-data-locale)
 to know how to import additional locale\n * data.\n * The signature registerLocaleData(data: any, extraData?:
 any) is deprecated since v5.1\n * @publicApi\n */\nexport function registerLocaleData(data: any, localeId?:
 string|any, extraData?: any): void {\n return registerLocaleData(data, localeId, extraData);\n }\n\n }, /**\n *
 @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-
 style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n export function
 parseCookieValue(cookieStr: string, name: string): string|null {\n name = encodeURIComponent(name);\n for
 (const cookie of cookieStr.split(';')) {\n const eqIndex = cookie.indexOf('=');\n const [cookieName,
 cookieValue]: string[] =\n eqIndex == -1 ? [cookie, "]: [cookie.slice(0, eqIndex), cookie.slice(eqIndex + 1)];\n
 if (cookieName.trim() === name) {\n return decodeURIComponent(cookieValue);\n
 }\n }\n return null;\n }\n\n }, /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this
 source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
 https://angular.io/license\n */\n\n import {Directive, DoCheck, ElementRef, Input, IterableChanges, IterableDiffer,
 IterableDiffers, KeyValueChanges, KeyValueDiffer, KeyValueDiffers, Renderer2, isListLikeIterable as
 isListLikeIterable, stringify as stringify} from '@angular/core';\n\n type NgClassSupportedTypes =
 string[]|Set<string>|{[klass: string]: any}|null|undefined;\n\n /**\n * @ngModule CommonModule\n * \n *
 @usageNotes\n * ``\n * <some-element [ngClass]="['first second']">...</some-element>\n * \n * <some-
 element [ngClass]="['first', 'second']">...</some-element>\n * \n * <some-element [ngClass]="{'first': true,
 'second': true, 'third': false}">...</some-element>\n * \n * <some-element
 [ngClass]="stringExp|arrayExp|objExp">...</some-element>\n
 * \n * <some-element [ngClass]="{'class1 class2 class3': true}">...</some-element>\n * ``\n * \n *
 @description\n * Adds and removes CSS classes on an HTML element.\n * The CSS classes are updated as
 follows, depending on the type of the expression evaluation:\n * - `string` - the CSS classes listed in the string
 (space delimited) are added,\n * - `Array` - the CSS classes declared as Array elements are added,\n * - `Object` -
 keys are CSS classes that get added when the expression given in the value\n * evaluates to a truthy value,
 otherwise they are removed.\n * @publicApi\n */\n@Directive({selector: '[ngClass]'})\nexport class NgClass
 implements DoCheck {\n private _iterableDiffer: IterableDiffer<string>|null = null;\n private _keyValueDiffer:
 KeyValueDiffer<string, any>|null = null;\n private _initialClasses: string[] = [];\n private _rawClass:
 NgClassSupportedTypes = null;\n\n constructor(\n private _iterableDiffers: IterableDiffers, private
 _keyValueDiffers: KeyValueDiffers,\n private _ngEl: ElementRef, private _renderer: Renderer2) {\n\n @Input('class')\n set klass(value: string) {\n this._removeClasses(this._initialClasses);\n this._initialClasses =
 typeof value === 'string' ? value.split(/\\s+/): [];\n this._applyClasses(this._initialClasses);\n
 this._applyClasses(this._rawClass);\n }\n\n @Input('ngClass')\n set ngClass(value:
 string|string[]|Set<string>|{[klass: string]: any}) {\n this._removeClasses(this._rawClass);\n
 this._applyClasses(this._initialClasses);\n\n this._iterableDiffer = null;\n this._keyValueDiffer = null;\n\n
 this._rawClass = typeof value === 'string' ? value.split(/\\s+/): value;\n\n if (this._rawClass) {\n if
 (isListLikeIterable(this._rawClass)) {\n this._iterableDiffer =
 this._iterableDiffers.find(this._rawClass).create();\n } else {\n this._keyValueDiffer =
 this._keyValueDiffers.find(this._rawClass).create();\n }\n }\n

```

```

 \n \n ngDoCheck() {\n if (this._iterableDiffer) {\n const iterableChanges =
this._iterableDiffer.diff(this._rawClass as string[]);\n if (iterableChanges) {\n
this._applyIterableChanges(iterableChanges);\n }\n } else if (this._keyValueDiffer) {\n const
keyValueChanges = this._keyValueDiffer.diff(this._rawClass as {[k: string]: any});\n if (keyValueChanges) {\n
this._applyKeyValueChanges(keyValueChanges);\n }\n }\n }\n\n private
_applyKeyValueChanges(changes: KeyValueChanges<string, any>): void {\n
changes.forEachAddedItem((record) => this._toggleClass(record.key, record.currentValue));\n
changes.forEachChangedItem((record) => this._toggleClass(record.key, record.currentValue));\n
changes.forEachRemovedItem((record) => {\n if (record.previousValue) {\n this._toggleClass(record.key,
false);\n }\n });\n }\n\n private _applyIterableChanges(changes: IterableChanges<string>): void {\n
changes.forEachAddedItem((record)
=> {\n if (typeof record.item === 'string') {\n this._toggleClass(record.item, true);\n } else {\n throw
new Error(`NgClass can only toggle CSS classes expressed as strings, got ${\n          stringify(record.item)}`);\n }\n });\n\n changes.forEachRemovedItem((record) => this._toggleClass(record.item, false));\n }\n\n /**\n *
Applies a collection of CSS classes to the DOM element.\n *\n * For argument of type Set and Array CSS class
names contained in those collections are always\n * added.\n * For argument of type Map CSS class name in the
map's key is toggled based on the value (added\n * for truthy and removed for falsy).\n */\n private
_applyClasses(rawClassVal: NgClassSupportedTypes) {\n if (rawClassVal) {\n if (Array.isArray(rawClassVal)
|| rawClassVal instanceof Set) {\n (<any>rawClassVal).forEach((klass: string) => this._toggleClass(klass,
true));\n } else {\n Object.keys(rawClassVal).forEach(klass
=> this._toggleClass(klass, !!rawClassVal[klass]));\n }\n }\n }\n\n /**\n * Removes a collection of CSS
classes from the DOM element. This is mostly useful for cleanup\n * purposes.\n */\n private
_removeClasses(rawClassVal: NgClassSupportedTypes) {\n if (rawClassVal) {\n if
(Array.isArray(rawClassVal) || rawClassVal instanceof Set) {\n (<any>rawClassVal).forEach((klass: string) =>
this._toggleClass(klass, false));\n } else {\n Object.keys(rawClassVal).forEach(klass =>
this._toggleClass(klass, false));\n }\n }\n }\n\n private _toggleClass(klass: string, enabled: boolean): void {\n
klass = klass.trim();\n if (klass) {\n klass.split(/\\s+/g).forEach(klass => {\n if (enabled) {\n
this._renderer.addClass(this._ngEl.nativeElement, klass);\n } else {\n
this._renderer.removeClass(this._ngEl.nativeElement, klass);\n }\n });\n }\n }\n }\n}\n\n"/>**\n * @license\n *
Copyright Google LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license
that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {ComponentFactoryResolver,
ComponentRef, Directive, Injector, Input, NgModuleFactory, NgModuleRef, OnChanges, OnDestroy,
SimpleChanges, StaticProvider, Type, ViewContainerRef} from '@angular/core';\n\n\n/**\n * Instantiates a {@link
Component} type and inserts its Host View into the current View.\n * `NgComponentOutlet` provides a declarative
approach for dynamic component creation.\n * \n * `NgComponentOutlet` requires a component type, if a falsy value
is set the view will clear and\n * any existing component will be destroyed.\n * \n * @usageNotes\n * \n * ### Fine
tune control\n * \n * You can control the component creation process by using the following optional attributes:\n
*\n * \n * `ngComponentOutletInjector`: Optional custom {@link Injector} that will be used as parent for\n * the
Component.\n * \n * Defaults to the injector of the current view container.\n * \n * `ngComponentOutletContent`: Optional list of
projectable nodes to insert into the content\n * section of the component, if it exists.\n * \n * \n *
`ngComponentOutletNgModuleFactory`: Optional module factory to allow loading another\n * module
dynamically, then loading a component from that module.\n * \n * \n * ### Syntax\n * \n * Simple\n * \n * ``\n * <ng-
container *ngComponentOutlet="componentTypeExpression"></ng-container>\n * \n * ``\n * \n * Customized
injector/content\n * \n * ``\n * <ng-container *ngComponentOutlet="componentTypeExpression;\n *
injector: injectorExpression;\n * content: contentNodesExpression;">\n * </ng-container>\n
*\n * ``\n * \n * Customized ngModuleFactory\n * \n * ``\n * <ng-container
*ngComponentOutlet="componentTypeExpression;\n * ngModuleFactory:

```

```

moduleFactory;">\n * </ng-container>\n * ``\n *\n * ### A simple
example\n *\n * {@example common/ngComponentOutlet/ts/module.ts region='SimpleExample'}}\n *\n * A more
complete example with additional options:\n *\n * {@example common/ngComponentOutlet/ts/module.ts
region='CompleteExample'}\n *\n * @publicApi\n * @ngModule CommonModule\n * /\n @Directive({selector:
'[ngComponentOutlet]'})\n\nexport class NgComponentOutlet implements OnChanges, OnDestroy {\n //
TODO(issue/24571): remove '!.\n @Input() ngComponentOutlet!: Type<any>;\n // TODO(issue/24571): remove
'!\n @Input() ngComponentOutletInjector!: Injector;\n // TODO(issue/24571): remove '!.\n @Input()
ngComponentOutletContent!: any[];\n // TODO(issue/24571): remove '!.\n @Input()
ngComponentOutletNgModuleFactory!: NgModuleFactory<any>;\n\n private _componentRef:
ComponentRef<any>|null = null;\n private _moduleRef: NgModuleRef<any>|null = null;\n\n constructor(private
_viewContainerRef: ViewContainerRef) {\n\n /** @nodoc */\n ngOnChanges(changes: SimpleChanges) {\n
this._viewContainerRef.clear();\n
this._componentRef = null;\n\n if (this.ngComponentOutlet) {\n const elInjector =
this.ngComponentOutletInjector || this._viewContainerRef.parentInjector;\n\n if
(changes['ngComponentOutletNgModuleFactory']) {\n if (this._moduleRef) this._moduleRef.destroy();\n\n
if (this.ngComponentOutletNgModuleFactory) {\n const parentModule = elInjector.get(NgModuleRef);\n
this._moduleRef = this.ngComponentOutletNgModuleFactory.create(parentModule.injector);\n } else {\n
this._moduleRef = null;\n }\n }\n\n const componentFactoryResolver = this._moduleRef ?
this._moduleRef.componentFactoryResolver : \n
elInjector.get(ComponentFactoryResolver);\n\n const componentFactory = \n
componentFactoryResolver.resolveComponentFactory(this.ngComponentOutlet);\n\n this._componentRef =
this._viewContainerRef.createComponent(\n
componentFactory, this._viewContainerRef.length, elInjector,\n this.ngComponentOutletContent);\n }\n
}\n\n /** @nodoc */\n ngOnDestroy() {\n if (this._moduleRef) this._moduleRef.destroy();\n }\n}\n", "/**\n *
@license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive,
DoCheck, EmbeddedViewRef, Input, IterableChangeRecord, IterableChanges, IterableDiffer, IterableDiffers,
NgIterable, TemplateRef, TrackByFunction, ViewContainerRef} from '@angular/core';\n\n/**\n * @publicApi\n
*\nexport class NgForOfContext<T, U extends NgIterable<T> = NgIterable<T>> {\n constructor(public $implicit:
T, public ngForOf: U, public index: number, public count: number) {\n\n get first(): boolean {\n return this.index
=== 0;\n }\n\n get last(): boolean {\n return this.index === this.count - 1;\n }\n\n get even(): boolean
{\n return this.index % 2 === 0;\n }\n\n get odd(): boolean {\n return !this.even;\n }\n}\n\n/**\n * A
[structural directive](guide/structural-directives) that renders\n * a template for each item in a collection.\n * The
directive is placed on an element, which becomes the parent\n * of the cloned templates.\n *\n * The `ngForOf`
directive is generally used in the\n * [shorthand form](guide/structural-directives#asterisk) `*ngFor`.\n * In this
form, the template to be rendered for each iteration is the content\n * of an anchor element containing the
directive.\n *\n * The following example shows the shorthand syntax with some options,\n * contained in an `- `
element.\n *\n * ``\n * <li *ngFor="let item of items; index as i; trackBy: trackByFn">...</li>\n * ``\n *\n * The
shorthand form expands into a long form that uses the `ngForOf` selector\n * on an `` element.\n *
The content of the `` element is the `- ` element that held the\n *
short-form directive.\n *\n * Here is the expanded version of the short-form example.\n *\n * ``\n * <ng-template
ngFor let-item [ngForOf]="items" let-i="index" [ngForTrackBy]="trackByFn">\n * ...\n * </ng-
template>\n * ``\n *\n * Angular automatically expands the shorthand syntax as it compiles the template.\n * The
context for each embedded view is logically merged to the current component\n * context according to its lexical
position.\n *\n * When using the shorthand syntax, Angular allows only [one structural directive\n * on an
element](guide/built-in-directives#one-per-element).\n * If you want to iterate conditionally, for example,\n * put
the `*ngIf` on a container element that wraps the `*ngFor` element.\n * For further discussion, see\n * [Structural
Directives](guide/built-in-directives#one-per-element).\n *\n * @usageNotes\n *\n * ### Local variables\n *\n

```

`NgForOf` provides exported values that can be aliased to local variables.  
 For example:

```

<li *ngFor="let user of users; index as i; first as isFirst">
 {{i}}/{{users.length}}. {{user}}


```

The following exported values can be aliased to local variables:

- `$implicit: T`: The value of the individual items in the iterable (`NgForOf`).
- `NgIterable<T>`: The value of the iterable expression. Useful when the expression is more complex than a property access, for example when using the async pipe (`userStreams | async`).
- `index: number`: The index of the current item in the iterable.
- `count: number`: The length of the iterable.
- `first: boolean`: True when the item is the first item in the iterable.
- `last: boolean`: True when the item is the last item in the iterable.
- `even: boolean`: True when the item has an even index in the iterable.
- `odd: boolean`: True when the item has an odd index in the iterable.

### Change propagation

When the contents of the iterator changes, `NgForOf` makes the corresponding changes to the DOM:

- When an item is added, a new instance of the template is added to the DOM.
- When an item is removed, its template instance is removed from the DOM.
- When items are reordered, their respective templates are reordered in the DOM.

Angular uses object identity to track insertions and deletions within the iterator and reproduce those changes in the DOM. This has important implications for animations and any stateful controls that are present, such as `<input>` elements that accept user input. Inserted rows can be animated in, deleted rows can be animated out, and unchanged rows retain any unsaved state such as user input. For more on animations, see [Transitions and Triggers](guide/transition-and-triggers).

The identities of elements in the iterator can change while the data does not. This can happen, for example, if the iterator is produced from an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response produces objects with different identities, and Angular must tear down the entire DOM and rebuild it (as if all old elements were deleted and all new elements inserted).

To avoid this expensive operation, you can customize the default tracking algorithm by supplying the `trackBy` option to `NgForOf`.

`trackBy` takes a function that has two arguments: `index` and `item`. If `trackBy` is given, Angular tracks changes by the return value of the function.

@see [Structural Directives](guide/structural-directives)

@ngModule CommonModule

@publicApi

@Directive({selector: '[ngFor][ngForOf]'})

export class NgForOf<T, U> extends NgIterable<T> = NgIterable<T> {

implements DoCheck {

/\*\*

\* The value of the iterable expression, which can be used as a

\* [template input variable](guide/structural-directives#shorthand).

\*/

@Input() ngForOf: U & NgIterable<T> | undefined | null; {

this.\_ngForOf = ngForOf;

this.\_ngForOfDirty = true;

}

/\*\*

\* Specifies a custom `TrackByFunction` to compute the identity of items in an iterable.

\* If a custom `TrackByFunction` is not provided, `NgForOf` will use the item's [object identity](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/Object/is) as the key.

\* `NgForOf` uses the computed key to associate items in an iterable with DOM elements it produces for these items.

\* A custom `TrackByFunction` is useful to provide good user experience in cases when items in an iterable rendered using `NgForOf` have a natural identifier (for example, custom ID or a primary key), and this iterable could be updated with new object instances that still represent the same underlying entity (for example, when data is re-fetched from the server, and the iterable is recreated and re-rendered, but most of the data is still the same).

\* @see `TrackByFunction`

\*/

@Input() ngForTrackBy(fn: TrackByFunction<T>) {

if ((typeof ngDevMode === 'undefined' || ngDevMode) && fn != null && typeof fn !== 'function') {

// TODO(vicb): use a log service once there is a public one available

if (<any>console && <any>console.warn) {

console.warn(`trackBy must be a function, but received \${JSON.stringify(fn)}.` +

`See https://angular.io/api/common/NgForOf#change-propagation for more information.`);

}

}

this.\_trackByFn = fn;

}

get ngForTrackBy(): TrackByFunction<T> {

return this.\_trackByFn;

}

private \_ngForOf: U | undefined | null = null;

private \_ngForOfDirty: boolean = true;

private \_differ: IterableDiffer<T> | null = null;

// TODO(issue/24571): remove '!'.private \_trackByFn!: TrackByFunction<T>;

constructor(private \_viewContainer:



```

ViewContainerRef, \n private _template: TemplateRef<NgForOfContext<T, U>>, private _differs:
IterableDiffers) {} \n \n /** \n * A reference to the template that is stamped out for each item in the iterable. \n *
@see [template reference variable](guide/template-reference-variables) \n */ \n @Input() set
ngForTemplate(value: TemplateRef<NgForOfContext<T, U>>) { \n // TODO(TS2.1): make
TemplateRef<Partial<NgForRowOf<T>>> once we move to TS v2.1 \n // The current type is too restrictive; a
template that just uses index, for example, \n // should be acceptable. \n if (value) { \n this._template = value; \n
 } \n } \n \n /** \n * Applies the changes when needed. \n * @nodoc \n */ \n ngDoCheck(): void { \n if
(this._ngForOfDirty) { \n this._ngForOfDirty = false; \n // React on ngForOf changes only once all inputs have
been initialized \n const value = this._ngForOf; \n if (!this._differ && value) { \n if (typeof ngDevMode
=== 'undefined'
|| ngDevMode) { \n try { \n // CAUTION: this logic is duplicated for production mode below, as the try-
catch \n // is only present in development builds. \n this._differ =
this._differs.find(value).create(this.ngForTrackBy); \n } catch { \n throw new Error(`Cannot find a differ
supporting object '${value}' of type '${\n getTypeName(value)}'. NgFor only supports binding to Iterables
such as Arrays.`); \n } \n } else { \n // CAUTION: this logic is duplicated for development mode
above, as the try-catch \n // is only present in development builds. \n this._differ =
this._differs.find(value).create(this.ngForTrackBy); \n } \n } \n if (this._differ) { \n const changes =
this._differ.diff(this._ngForOf); \n if (changes) this._applyChanges(changes); \n } \n } \n \n private
_applyChanges(changes: IterableChanges<T>) { \n const viewContainer = this._viewContainer; \n
 changes.forEachOperation(\n (item: IterableChangeRecord<T>, adjustedPreviousIndex: number|null, \n
 currentIndex: number|null) => { \n if (item.previousIndex == null) { \n // NgForOf is never \"null\" or
\"undefined\" here because the differ detected \n // that a new item needs to be inserted from the iterable. This
implies that \n // there is an iterable value for \"_ngForOf\". \n viewContainer.createEmbeddedView(\n
 this._template, new NgForOfContext<T, U>(item.item, this._ngForOf!, -1, -1), \n currentIndex ===
null ? undefined : currentIndex); \n } else if (currentIndex == null) { \n viewContainer.remove(\n
 adjustedPreviousIndex === null ? undefined : adjustedPreviousIndex); \n } else if (adjustedPreviousIndex !==
null) { \n const view = viewContainer.get(adjustedPreviousIndex!); \n viewContainer.move(view,
currentIndex); \n
 applyViewChange(view as EmbeddedViewRef<NgForOfContext<T, U>>, item); \n } \n }); \n
 for (let i = 0, ilen = viewContainer.length; i < ilen; i++) { \n const viewRef =
<EmbeddedViewRef<NgForOfContext<T, U>>>viewContainer.get(i); \n const context = viewRef.context; \n
 context.index = i; \n context.count = ilen; \n context.ngForOf = this._ngForOf!; \n } \n \n
 changes.forEachIdentityChange((record: any) => { \n const viewRef = <EmbeddedViewRef<NgForOfContext<T,
U>>>viewContainer.get(record.currentIndex); \n applyViewChange(viewRef, record); \n }); \n } \n \n /** \n *
Asserts the correct type of the context for the template that `NgForOf` will render. \n * \n * The presence of this
method is a signal to the Ivy template type-check compiler that the \n * `NgForOf` structural directive renders its
template with a specific context type. \n * \n * static ngTemplateContextGuard<T, U> extends NgIterable<T>>(dir:
NgForOf<T, U>, ctx:
any): \n ctx is NgForOfContext<T, U> { \n return true; \n } \n \n \n function applyViewChange<T>(\n view:
EmbeddedViewRef<NgForOfContext<T>>, record: IterableChangeRecord<T>) { \n view.context.$implicit =
record.item; \n } \n \n function getTypeName(type: any): string { \n return type['name'] || typeof type; \n } \n \n /** \n *
@license \n * Copyright Google LLC All Rights Reserved. \n * \n * Use of this source code is governed by an MIT-
style license that can be \n * found in the LICENSE file at https://angular.io/license \n * \n \n \n import {Directive,
EmbeddedViewRef, Input, TemplateRef, ViewContainerRef, stringify as stringify} from '@angular/core'; \n \n \n /** \n *
A structural directive that conditionally includes a template based on the value of \n * an expression coerced to
Boolean. \n * \n * When the expression evaluates to true, Angular renders the template \n * provided in a `then` clause,
and when false or null, \n * Angular renders the template provided in an optional `else` clause. The default \n

```

\* template for the `else` clause is blank.\n \* A [shorthand form](guide/structural-directives#asterisk) of the directive,\n \* `\*ngIf="condition"`, is generally used, provided\n \* as an attribute of the anchor element for the inserted template.\n \* Angular expands this into a more explicit version, in which the anchor element\n \* is contained in an `` element.\n \* Simple form with shorthand syntax:\n \* ``\n \* <div \*ngIf="condition">Content to render when condition is true.</div>\n \* ``\n \* Simple form with expanded syntax:\n \* ``\n \* <ng-template [ngIf]="condition"><div>Content to render when condition is\n \* true.</div></ng-template>\n \* ``\n \* Form with an `else` block:\n \* ``\n \* <div \*ngIf="condition; else elseBlock">Content to render when condition is true.</div>\n \* <ng-template #elseBlock>Content to render when condition is false.</ng-template>\n \* ``\n \* Shorthand form with `then` and `else` blocks:\n \* ``\n \* <div \*ngIf="condition; then thenBlock else elseBlock"></div>\n \* <ng-template #thenBlock>Content to render when condition is true.</ng-template>\n \* <ng-template #elseBlock>Content to render when condition is false.</ng-template>\n \* ``\n \* Form with storing the value locally:\n \* ``\n \* <div \*ngIf="condition as value; else elseBlock">{{value}}</div>\n \* <ng-template #elseBlock>Content to render when value is null.</ng-template>\n \* ``\n \* @usageNotes\n \* The `\*ngIf` directive is most commonly used to conditionally show an inline template,\n \* as seen in the following example.\n \* The default `else` template is blank.\n \* {@example common/ngIf/ts/module.ts region='NgIfSimple'}\n \* ### Showing an alternative template using `else`\n \* To display a template when `expression` evaluates to false, use an `else` template\n \* binding as shown in the following example.\n \* The `else` binding points to an `` element labeled `#elseBlock`.\n \* The template can be defined anywhere in the component view, but is typically placed right after\n \* `\*ngIf` for readability.\n \* {@example common/ngIf/ts/module.ts region='NgIfElse'}\n \* ### Using an external `then` template\n \* In the previous example, the then-clause template is specified inline, as the content of the\n \* tag that contains the `\*ngIf` directive. You can also specify a template that is defined\n \* externally, by referencing a labeled `` element. When you do this, you can\n \* change which template to use at runtime, as shown in the following example.\n \* {@example common/ngIf/ts/module.ts region='NgIfThenElse'}\n \* ### Storing a conditional result in a variable\n \* You might want to show a set of properties from the same object. If you are waiting\n \* for asynchronous data, the object can be undefined.\n \* In this case, you can use `\*ngIf` and store the result of the condition in a local\n \* variable as shown in the following example.\n \* {@example common/ngIf/ts/module.ts region='NgIfAs'}\n \* This code uses only one `AsyncPipe`, so only one subscription is created.\n \* The conditional statement stores the result of `userStream|async` in the local variable `user`.\n \* You can then bind the local `user` repeatedly.\n \* The conditional displays the data only if `userStream` returns a value,\n \* so you don't need to use the\n \* safe-navigation-operator (`?.`)\n \* to guard against null values when accessing properties.\n \* You can display an alternative template while waiting for the data.\n \* ### Shorthand syntax\n \* The shorthand syntax `\*ngIf` expands into two separate template specifications\n \* for the `then` and `else` clauses. For example, consider the following shorthand statement,\n \* that is meant to show a loading page while waiting for data to be loaded.\n \* ``\n \* <div class="hero-list" \*ngIf="heroes else loading">\n \* ...</div>\n \* <ng-template #loading>\n \* <div>Loading...</div>\n \* </ng-template>\n \* ``\n \* You can see that the `else` clause references the ``\n \* with the `#loading` label, and the template for the `then` clause\n \* is provided as the content of the anchor element.\n \* However, when Angular expands the shorthand syntax, it creates\n \* another `` tag, with `\*ngIf` and `\*ngIfElse` directives.\n \* The anchor element containing the template for the `then` clause becomes\n \* the content of this unlabeled `` tag.\n \* ``\n \* <ng-template [ngIf]="heroes" [ngIfElse]="loading">\n \* <div class="hero-list">\n \* ...</div>\n \* </ng-template>\n \* <ng-template #loading>\n \* <div>Loading...</div>\n \* </ng-template>\n \* ``\n \* The presence of the implicit template object has implications for the nesting of\n \* structural directives. For more on this subject, see\n \* [Structural Directives](https://angular.io/guide/built-in-directives#one-per-element).\n \* @NgModule\n \* CommonModule\n \* @publicApi\n \* @NgModule({selector: '[ngIf]'})\n \* export class NgIf<T> = unknown> {\n \* private \_context: NgIfContext<T> = new NgIfContext<T>();\n \* private \_thenTemplateRef: TemplateRef<NgIfContext<T>>|null = null;\n \* private \_elseTemplateRef: TemplateRef<NgIfContext<T>>|null =

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null;\n private _thenViewRef: EmbeddedViewRef<NgIfContext<T>>|null = null;\n private _elseViewRef:
EmbeddedViewRef<NgIfContext<T>>|null = null;\n\n constructor(private _viewContainer: ViewContainerRef,
templateRef: TemplateRef<NgIfContext<T>>) {\n this._thenTemplateRef = templateRef;\n }\n\n /**\n * The
Boolean expression to evaluate as the condition for showing a template.\n */\n @Input()\n set ngIf(condition: T)
{\n this._context.$implicit = this._context.ngIf = condition;\n this._updateView();\n }\n\n /**\n * A template
to show if the condition expression evaluates to true.\n */\n @Input()\n set ngIfThen(templateRef:
TemplateRef<NgIfContext<T>>|null) {\n
 assertTemplate('ngIfThen', templateRef);\n this._thenTemplateRef = templateRef;\n this._thenViewRef = null;
// clear previous view if any.\n this._updateView();\n }\n\n /**\n * A template to show if the condition
expression evaluates to false.\n */\n @Input()\n set ngIfElse(templateRef: TemplateRef<NgIfContext<T>>|null)
{\n assertTemplate('ngIfElse', templateRef);\n this._elseTemplateRef = templateRef;\n this._elseViewRef =
null; // clear previous view if any.\n this._updateView();\n }\n\n private _updateView() {\n if
(this._context.$implicit) {\n if (!this._thenViewRef) {\n this._viewContainer.clear();\n
 this._elseViewRef = null;\n if (this._thenTemplateRef) {\n this._thenViewRef =\n
this._viewContainer.createEmbeddedView(this._thenTemplateRef, this._context);\n }\n } else {\n if
(!this._elseViewRef) {\n this._viewContainer.clear();\n this._thenViewRef = null;\n
 if (this._elseTemplateRef) {\n this._elseViewRef =\n
this._viewContainer.createEmbeddedView(this._elseTemplateRef, this._context);\n }\n }\n }\n }\n\n /**
 * @internal\n */\n public static ngIfUseIfTypeGuard: void;\n\n /**\n * Assert the correct type of the expression
bound to the `ngIf` input within the template.\n */\n * The presence of this static field is a signal to the Ivy
template type check compiler that\n * when the `NgIf` structural directive renders its template, the type of the
expression bound\n * to `ngIf` should be narrowed in some way. For `NgIf`, the binding expression itself is used
to\n * narrow its type, which allows the strictNullChecks feature of TypeScript to work with `NgIf`.\n */\n static
ngTemplateGuard_ngIf: 'binding';\n\n /**\n * Asserts the correct type of the context for the template that `NgIf`
will render.\n */\n * The presence of this method is a signal to the Ivy template type-check compiler
that the\n * `NgIf` structural directive renders its template with a specific context type.\n */\n static
ngTemplateContextGuard<T>(dir: NgIf<T>, ctx: any):\n ctx is NgIfContext<Exclude<T,
false|0|''|null|undefined>> {\n return true;\n }\n}\n\n/**\n * @publicApi\n */\nexport class NgIfContext<T =
unknown> {\n public $implicit: T = null!;\n public ngIf: T = null!;\n}\n\nfunction assertTemplate(property: string,
templateRef: TemplateRef<any>|null): void {\n const isTemplateRefOrNull = !!(templateRef ||
templateRef.createEmbeddedView);\n if (!isTemplateRefOrNull) {\n throw new Error(`${property} must be a
TemplateRef, but received '${stringify(templateRef)}'.`);\n }\n}\n\n"/**\n * @license\n * Copyright Google LLC
All Rights Reserved.\n */\n * Use of this source code is governed by an MIT-style license that can be\n * found in
the LICENSE file at https://angular.io/license\n */\nimport {Directive, DoCheck, Host, Input, Optional,
TemplateRef, ViewContainerRef, RuntimeError
as RuntimeError} from '@angular/core';\nimport {RuntimeErrorCode} from '../errors';\n\nexport class
SwitchView {\n private _created = false;\n\n constructor(\n private _viewContainerRef: ViewContainerRef,\n private _templateRef: TemplateRef<Object>) {\n }\n\n create(): void {\n this._created = true;\n
this._viewContainerRef.createEmbeddedView(this._templateRef);\n }\n\n destroy(): void {\n this._created =
false;\n this._viewContainerRef.clear();\n }\n\n enforceState(created: boolean) {\n if (created &&
!this._created) {\n this.create();\n } else if (!created && this._created) {\n this.destroy();\n }\n }\n}\n\n/**\n * @ngModule CommonModule\n */\n * @description\n * The `[ngSwitch]` directive on a container
specifies an expression to match against.\n * The expressions to match are provided by `ngSwitchCase` directives on
views within the container.\n * - Every view that matches is rendered.\n * - If there are no matches, a view with the
`ngSwitchDefault`
 directive is rendered.\n * - Elements within the `[NgSwitch]` statement but outside of any `NgSwitchCase`\n * or
`ngSwitchDefault` directive are preserved at the location.\n */\n * @usageNotes\n * Define a container element for
the directive, and specify the switch expression\n * to match against as an attribute:\n */\n * ``\n * <container-

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element [ngSwitch]="switch\_expression">\n \* ``\n \*\n \* Within the container, `\*ngSwitchCase` statements specify the match expressions\n \* as attributes. Include `\*ngSwitchDefault` as the final case.\n \*\n \* ``\n \* <container-element [ngSwitch]="switch\_expression">\n \* <some-element \*ngSwitchCase="match\_expression\_1">...</some-element>\n \* ...</some-element>\n \* <some-element \*ngSwitchDefault>...</some-element>\n \* </container-element>\n \* ``\n \*\n \* ### Usage Examples\n \*\n \* The following example shows how to use more than one case to display the same view:\n \*\n \* ``\n \* <container-element [ngSwitch]="switch\_expression">\n \* <!-- the same view can be shown in more than one case -->\n \* <some-element \*ngSwitchCase="match\_expression\_1">...</some-element>\n \* <some-element \*ngSwitchCase="match\_expression\_2">...</some-element>\n \* <some-other-element \*ngSwitchCase="match\_expression\_3">...</some-other-element>\n \* <!--default case when there are no matches -->\n \* <some-element \*ngSwitchDefault>...</some-element>\n \* </container-element>\n \* ``\n \*\n \* The following example shows how cases can be nested:\n \*\n \* ``\n \* <container-element [ngSwitch]="switch\_expression">\n \* <some-element \*ngSwitchCase="match\_expression\_1">...</some-element>\n \* <some-element \*ngSwitchCase="match\_expression\_2">...</some-element>\n \* <some-other-element \*ngSwitchCase="match\_expression\_3">...</some-other-element>\n \* <ng-container \*ngSwitchCase="match\_expression\_3">\n \* <!-- use a ng-container to group multiple root nodes -->\n \* <inner-element></inner-element>\n \* <inner-other-element></inner-other-element>\n \* </ng-container>\n \* <some-element \*ngSwitchDefault>...</some-element>\n \* </container-element>\n \* ``\n \*\n \* @publicApi\n \* @see `NgSwitchDefault`\n \* @see [Structural Directives](guide/structural-directives)\n \*\n \* /\n \* @Directive({selector: '[ngSwitch]'})\n \* export class NgSwitch {\n \* // TODO(issue/24571): remove '!'\n \* private \_defaultViews!: SwitchView[];\n \* private \_defaultUsed = false;\n \* private \_caseCount = 0;\n \* private \_lastCaseCheckIndex = 0;\n \* private \_lastCasesMatched = false;\n \* private \_ngSwitch: any;\n \*\n \* @Input()\n \* set ngSwitch(newValue: any) {\n \* this.\_ngSwitch = newValue;\n \* if (this.\_caseCount === 0) {\n \* this.\_updateDefaultCases(true);\n \* }\n \* }\n \*\n \* /\*\* @internal \*/\n \* \_addCase(): number {\n \* return this.\_caseCount++;\n \* }\n \*\n \* /\*\* @internal \*/\n \* \_addDefault(view: SwitchView) {\n \* if (!this.\_defaultViews) {\n \* this.\_defaultViews = [];\n \* }\n \* this.\_defaultViews.push(view);\n \* }\n \*\n \* /\*\* @internal \*/\n \* \_matchCase(value: any): boolean {\n \* const matched = value == this.\_ngSwitch;\n \* this.\_lastCasesMatched = this.\_lastCasesMatched || matched;\n \* this.\_lastCaseCheckIndex++;\n \* if (this.\_lastCaseCheckIndex === this.\_caseCount) {\n \* this.\_updateDefaultCases(!this.\_lastCasesMatched);\n \* }\n \* this.\_lastCaseCheckIndex = 0;\n \* this.\_lastCasesMatched = false;\n \* }\n \* return matched;\n \* }\n \*\n \* private \_updateDefaultCases(useDefault: boolean) {\n \* if (this.\_defaultViews && useDefault !== this.\_defaultUsed) {\n \* this.\_defaultUsed = useDefault;\n \* for (let i = 0; i < this.\_defaultViews.length; i++) {\n \* const defaultView = this.\_defaultViews[i];\n \* defaultView.enforceState(useDefault);\n \* }\n \* }\n \* }\n \*\n \* @ngModule CommonModule\n \* \* @description\n \* \* Provides a switch case expression to match against an enclosing `ngSwitch` expression.\n \* \* When the expressions match, the given `NgSwitchCase` template is rendered.\n \* \* If multiple match expressions match the switch expression value, all of them are displayed.\n \* \*\n \* @usageNotes\n \* \*\n \* Within a switch container, `\*ngSwitchCase` statements specify the match expressions\n \* as attributes. Include `\*ngSwitchDefault` as the final case.\n \*\n \* <container-element [ngSwitch]="switch\_expression">\n \* <some-element \*ngSwitchCase="match\_expression\_1">...</some-element>\n \* ...</some-element>\n \* <some-element \*ngSwitchDefault>...</some-element>\n \* </container-element>\n \* ``\n \*\n \* Each switch-case statement contains an in-line HTML template or template reference\n \* that defines the subtree to be selected if the value of the match expression\n \* matches the value of the switch expression.\n \*\n \* Unlike JavaScript, which uses strict equality, Angular uses loose equality.\n \* This means that the empty string, `""` matches 0.\n \*\n \* @publicApi\n \* @see `NgSwitch`\n \* @see `NgSwitchDefault`\n \*\n \* /\n \* @Directive({selector: '[ngSwitchCase]'})\n \* export class NgSwitchCase implements DoCheck {\n \* private \_view: SwitchView;\n \* /\*\*\n \* Stores the HTML template to be selected on match.\n \* \*/\n \* @Input() ngSwitchCase: any;\n \*\n \* constructor(\n

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viewContainer: ViewContainerRef, templateRef: TemplateRef<Object>, \n @Optional() @Host() private
ngSwitch: NgSwitch) {\n if ((typeof ngDevMode === 'undefined' || ngDevMode) && !ngSwitch) {\n
throwNgSwitchProviderNotFoundError('ngSwitchCase', 'NgSwitchCase');\n }\n\n ngSwitch._addCase();\n
this._view = new SwitchView(viewContainer, templateRef);\n }\n\n /**\n * Performs case matching. For internal
use only.\n * @nodoc\n */\n ngDoCheck() {\n
this._view.enforceState(this.ngSwitch._matchCase(this.ngSwitchCase));\n }\n}\n\n/**\n * @ngModule
CommonModule\n * \n * @description\n * \n * Creates a view that is rendered when no `NgSwitchCase`
expressions\n * match the `NgSwitch` expression.\n * This statement should be the final case in an `NgSwitch`.\n
*\n * @publicApi\n * @see `NgSwitch`\n * @see `NgSwitchCase`\n * \n */\n\n@Directive({selector:
'[ngSwitchDefault]'})\nexport class NgSwitchDefault {\n constructor(\n viewContainer: ViewContainerRef,
templateRef: TemplateRef<Object>, \n @Optional() @Host() ngSwitch: NgSwitch) {\n if ((typeof ngDevMode
=== 'undefined' || ngDevMode) && !ngSwitch) {\n throwNgSwitchProviderNotFoundError('ngSwitchDefault',
'NgSwitchDefault');\n }\n\n ngSwitch._addDefault(new SwitchView(viewContainer, templateRef));\n
 }\n\n\nfunction throwNgSwitchProviderNotFoundError(attrName: string, directiveName: string): never {\n throw
new RuntimeError(\n RuntimeErrorCode.PARENT_NG_SWITCH_NOT_FOUND, \n `An element with the
\'${attrName}\' attribute ` + \n            `(matching the \'${\n directiveName\n }\' directive) must be located
inside an element with the \'ngSwitch\' attribute ` + \n            `(matching \'NgSwitch\' directive)`);\n }\n\n }, /**\n *
@license\n * Copyright
Google LLC All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n
* found in the LICENSE file at https://angular.io/license\n * \n */\n\nimport {Attribute, Directive, Host, Input,
TemplateRef, ViewContainerRef} from '@angular/core';\n\nimport {getPluralCategory, NgLocalization} from
'./i18n/localization';\n\nimport {SwitchView} from './ng_switch';\n\n\n/**\n * @ngModule CommonModule\n * \n *
@usageNotes\n * ``\n * <some-element [ngPlural]="value">\n * <ng-template ngPluralCase="=0">there is
nothing</ng-template>\n * <ng-template ngPluralCase="=1">there is one</ng-template>\n * <ng-template
ngPluralCase="few">there are a few</ng-template>\n * </some-element>\n * ``\n * \n * @description\n * \n *
Adds / removes DOM sub-trees based on a numeric value. Tailored for pluralization.\n * \n * Displays DOM sub-
trees that match the switch expression value, or failing that, DOM sub-trees\n * that match the switch expression's
pluralization
category.\n * \n * To use this directive you must provide a container element that sets the `[ngPlural]` attribute\n * to
a switch expression. Inner elements with a `[ngPluralCase]` will display based on their\n * expression:\n * - if
`[ngPluralCase]` is set to a value starting with `=`, it will only display if the value\n * matches the switch
expression exactly,\n * - otherwise, the view will be treated as a `category match`, and will only display if exact\n
* value matches aren't found and the value maps to its category for the defined locale.\n * \n * See
http://cldr.unicode.org/index/cldr-spec/plural-rules\n * \n * @publicApi\n * \n */\n\n@Directive({selector:
'[ngPlural]'})\nexport class NgPlural {\n // TODO(issue/24571): remove '!'.\n private _switchValue!: number;\n //
TODO(issue/24571): remove '!'.\n private _activeView!: SwitchView;\n private _caseViews: {[k: string]:
SwitchView} = {};\n\n constructor(private _localization: NgLocalization) {\n }\n\n @Input()\n set ngPlural(value:
number) {\n this._switchValue = value;\n this._updateView();\n }\n\n addCase(value: string, switchView:
SwitchView): void {\n this._caseViews[value] = switchView;\n }\n\n private _updateView(): void {\n
this._clearViews();\n\n const cases = Object.keys(this._caseViews);\n const key =
getPluralCategory(this._switchValue, cases, this._localization);\n this._activateView(this._caseViews[key]);\n
 }\n\n private _clearViews() {\n if (this._activeView) this._activeView.destroy();\n }\n\n private
_activateView(view: SwitchView) {\n if (view) {\n this._activeView = view;\n this._activeView.create();\n
 }\n }\n}\n\n\n/**\n * @ngModule CommonModule\n * \n * @description\n * \n * Creates a view that will be
added/removed from the parent {@link NgPlural} when the\n * given expression matches the plural expression
according to CLDR rules.\n * \n * @usageNotes\n * ``\n * <some-element [ngPlural]="value">\n * <ng-template
ngPluralCase="=0">...</ng-template>\n

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* <ng-template ngPluralCase=@"other">...</ng-template>\n * </some-element>\n * ```\n * See {@link NgPlural} for more details and example.\n *\n * @publicApi\n */\n@Directive({selector: '[ngPluralCase]'})\nexport class NgPluralCase {\n constructor(\n @Attribute('ngPluralCase') public value: string, template: TemplateRef<Object>,\n viewContainer: ViewContainerRef, @Host() ngPlural: NgPlural) {\n const isANumber: boolean = !isNaN(Number(value));\n ngPlural.addCase(isANumber ? `${value}` : value, new SwitchView(viewContainer, template));\n }\n}\n", /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\nimport {Directive, DoCheck, ElementRef, Input, KeyValueChanges, KeyValueDiffer, KeyValueDiffers, Renderer2} from '@angular/core';\n\n/**\n * @ngModule CommonModule\n *\n * @usageNotes\n *\n * Set the font of the containing element to the result of an expression.\n *\n * ```\n * <some-element [ngStyle]='{'font-style': styleExp}'">...</some-element>\n *\n * ```\n *\n * Set the width of the containing element to a pixel value returned by an expression.\n *\n * ```\n * <some-element [ngStyle]='{'max-width.px': widthExp}'">...</some-element>\n *\n * ```\n *\n * Set a collection of style values using an expression that returns key-value pairs.\n *\n * ```\n * <some-element [ngStyle]="objExp">...</some-element>\n *\n * ```\n *\n * @description\n *\n * An attribute directive that updates styles for the containing HTML element.\n *\n * Sets one or more style properties, specified as colon-separated key-value pairs.\n *\n * The key is a style name, with an optional `<unit>` suffix (such as 'top.px', 'font-style.em').\n *\n * The value is an expression to be evaluated.\n *\n * The resulting non-null value, expressed in the given unit, is assigned to the given style property.\n *\n * If the result of evaluation is null, the corresponding style is removed.\n *\n * @publicApi\n */\n@Directive({selector: '[ngStyle]'})\nexport class NgStyle implements DoCheck {\n private _ngStyle: {[key: string]: string}|null = null;\n private _differ: KeyValueDiffer<string, string|number>|null = null;\n\n constructor(\n private _ngEl: ElementRef, private _differs: KeyValueDiffers, private _renderer: Renderer2) {\n @Input('ngStyle')\n set ngStyle(values: {[klass: string]: any}|null) {\n this._ngStyle = values;\n if (!this._differ && values) {\n this._differ = this._differs.find(values).create();\n }\n }\n\n ngDoCheck() {\n if (this._differ) {\n const changes = this._differ.diff(this._ngStyle!);\n if (changes) {\n this._applyChanges(changes);\n }\n }\n }\n\n private _setStyle(nameAndUnit: string, value: string|number|null|undefined): void {\n const [name, unit] = nameAndUnit.split('.);\n value = value != null && unit ? `${value}${unit}` : value;\n\n if (value != null) {\n this._renderer.setStyle(this._ngEl.nativeElement, name, value as string);\n } else {\n this._renderer.removeStyle(this._ngEl.nativeElement, name);\n }\n }\n\n private _applyChanges(changes: KeyValueChanges<string, string|number>): void {\n changes.forEachRemovedItem((record) => this._setStyle(record.key, null));\n changes.forEachAddedItem((record) => this._setStyle(record.key, record.currentValue));\n changes.forEachChangedItem((record) => this._setStyle(record.key, record.currentValue));\n }\n }\n}\n", /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\nimport {Directive, EmbeddedViewRef, Input, OnChanges, SimpleChange, SimpleChanges, TemplateRef, ViewContainerRef} from '@angular/core';\n\n/**\n * @ngModule CommonModule\n *\n * @description\n *\n * Inserts an embedded view from a prepared `TemplateRef`. You can attach a context object to the `EmbeddedViewRef` by setting `[ngTemplateOutletContext]`. [ngTemplateOutletContext] should be an object, the object's keys will be available for binding by the local template `let` declarations.\n *\n * @usageNotes\n *\n * ```\n * <ng-container *ngTemplateOutlet="templateRefExp; context: contextExp"></ng-container>\n *\n * ```\n *\n * Using the key `$implicit` in the context object will set its value as default.\n *\n * ### Example\n *\n * {@example common/ngTemplateOutlet/ts/module.ts region='NgTemplateOutlet'}\n *\n * @publicApi\n */\n@Directive({selector: '[ngTemplateOutlet]'})\nexport class NgTemplateOutlet implements OnChanges {\n private _viewRef: EmbeddedViewRef<any>|null = null;\n\n /**\n * A context object to attach to the {@link EmbeddedViewRef}. This should be an object, the object's keys will be available for binding by the local template `let` declarations.\n *\n * Using the key `$implicit`
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in the context object will set its value as default.\n */\n @Input() public ngTemplateOutletContext: Object|null =
null;\n\n /**\n * A string defining the template reference and optionally the context object for the template.\n */\n @Input() public ngTemplateOutlet: TemplateRef<any>|null = null;\n\n constructor(private _viewContainerRef:
ViewContainerRef) {\n\n /** @nodoc */\n ngOnChanges(changes: SimpleChanges) {\n if
(changes['ngTemplateOutlet']) {\n const viewContainerRef = this._viewContainerRef;\n\n if (this._viewRef)
{\n viewContainerRef.remove(viewContainerRef.indexOf(this._viewRef));\n }\n\n this._viewRef =
this.ngTemplateOutlet ?\n viewContainerRef.createEmbeddedView(this.ngTemplateOutlet,
this.ngTemplateOutletContext) :\n null;\n } else if (\n this._viewRef &&
changes['ngTemplateOutletContext'] && this.ngTemplateOutletContext) {\n this._viewRef.context =
this.ngTemplateOutletContext;\n }\n }\n\n /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n import { Provider } from '@angular/core';\n import { NgClass } from './ng_class';\n import { NgComponentOutlet }
from './ng_component_outlet';\n import { NgForOf, NgForOfContext } from './ng_for_of';\n import { NgIf,
NgIfContext } from './ng_if';\n import { NgPlural, NgPluralCase } from './ng_plural';\n import { NgStyle } from
'./ng_style';\n import { NgSwitch, NgSwitchCase, NgSwitchDefault } from './ng_switch';\n import
{ NgTemplateOutlet } from './ng_template_outlet';\n\n export {\n NgClass,\n NgComponentOutlet,\n NgForOf,\n NgForOfContext,\n NgIf,\n NgIfContext,\n NgPlural,\n NgPluralCase,\n NgStyle,\n NgSwitch,\n NgSwitchCase,\n NgSwitchDefault,\n NgTemplateOutlet,\n };\n\n /**\n * A collection of Angular directives
that are likely to be used in each and every Angular\n * application.\n */\n\n export const COMMON_DIRECTIVES: Provider[] = [\n NgClass,\n NgComponentOutlet,\n NgForOf,\n NgIf,\n NgTemplateOutlet,\n NgStyle,\n NgSwitch,\n NgSwitchCase,\n NgSwitchDefault,\n NgPlural,\n NgPluralCase,\n];\n\n /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n import { Type, RuntimeError as RuntimeError, stringify as stringify } from '@angular/core';\n import
{ RuntimeErrorCode } from '../errors';\n\n export function invalidPipeArgumentError(type: Type<any>, value:
Object) {\n const errorMessage = (typeof ngDevMode === 'undefined' || ngDevMode) ?\n `InvalidPipeArgument: '${value}' for pipe '${stringify(type)}'`\n :\n '';\n return new
RuntimeError(RuntimeErrorCode.INVALID_PIPE_ARGUMENT, errorMessage);\n }\n\n /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n import { ChangeDetectorRef, EventEmitter, OnDestroy, Pipe, PipeTransform, isPromise, isSubscribable } from
'@angular/core';\n import { Observable, Subscribable, Unsubscribable } from 'rxjs';\n import
{ invalidPipeArgumentError } from './invalid_pipe_argument_error';\n\n interface SubscriptionStrategy {\n createSubscription(async: Subscribable<any>|Promise<any>, updateLatestValue: any): Unsubscribable\n |Promise<any>;\n dispose(subscription: Unsubscribable|Promise<any>): void;\n onDestroy(subscription:
Unsubscribable|Promise<any>): void;\n }\n\n class SubscribableStrategy implements SubscriptionStrategy {\n createSubscription(async: Subscribable<any>, updateLatestValue: any): Unsubscribable {\n return
async.subscribe({\n next: updateLatestValue,\n error: (e: any) => {\n throw e;\n }\n });\n }\n\n dispose(subscription: Unsubscribable):
void {\n subscription.unsubscribe();\n }\n\n onDestroy(subscription: Unsubscribable): void {\n subscription.unsubscribe();\n }\n }\n\n class PromiseStrategy implements SubscriptionStrategy {\n createSubscription(async: Promise<any>, updateLatestValue: (v: any) => any): Promise<any> {\n return
async.then(updateLatestValue, e => {\n throw e;\n });\n }\n\n dispose(subscription: Promise<any>): void
{\n onDestroy(subscription: Promise<any>): void {\n }\n }\n\n const _promiseStrategy = new
PromiseStrategy();\n const _subscribableStrategy = new SubscribableStrategy();\n\n /**\n * @ngModule
CommonModule\n * @description\n * Unwraps a value from an asynchronous primitive.\n * The `async`
pipe subscribes to an `Observable` or `Promise` and returns the latest value it has\n * emitted. When a new value is

```

emitted, the `async` pipe marks the component to be checked for\n \* changes. When the component gets destroyed, the `async` pipe unsubscribes automatically to avoid\n

\* potential memory leaks. When the reference of the expression changes, the `async` pipe\n \* automatically unsubscribes from the old `Observable` or `Promise` and subscribes to the new one.\n \* \n \* @usageNotes\n \* \n \* ### Examples\n \* \n \* This example binds a `Promise` to the view. Clicking the `Resolve` button resolves the\n \* promise.\n \* \n \* {@example common/pipes/ts/async\_pipe.ts region='AsyncPipePromise'}\n \* \n \* It's also possible to use `async` with Observables. The example below binds the `time` Observable\n \* to the view. The Observable continuously updates the view with the current time.\n \* \n \* {@example common/pipes/ts/async\_pipe.ts region='AsyncPipeObservable'}\n \* \n \* @publicApi\n \* \n \* @Pipe({name: 'async', pure: false})\n \* \n \* export class AsyncPipe implements OnDestroy, PipeTransform {\n \* private \_latestValue: any = null;\n \* private \_subscription: Unsubscribable|Promise<any>|null = null;\n \* private \_obj: Subscribable<any>|Promise<any>|EventEmitter<any>|null = null;\n \* private \_strategy: SubscriptionStrategy = null;\n \* constructor(private \_ref: ChangeDetectorRef) {}\n \* ngOnDestroy(): void {\n \* if (this.\_subscription) {\n \* this.\_dispose();\n \* }\n \* }\n \* // NOTE(@benlesh): Because Observable has deprecated a few call patterns for `subscribe`,\n \* // TypeScript has a hard time matching Observable to Subscribable,\n \* // for more information\n \* // see https://github.com/microsoft/TypeScript/issues/43643\n \* transform<T>(obj: Observable<T>|Subscribable<T>|Promise<T>): T|null;\n \* transform<T>(obj: null|undefined): null;\n \* transform<T>(obj: Observable<T>|Subscribable<T>|Promise<T>|null|undefined): T|null;\n \* transform<T>(obj: Observable<T>|Subscribable<T>|Promise<T>|null|undefined): T|null {\n \* if (!this.\_obj) {\n \* if (obj) {\n \* this.\_subscribe(obj);\n \* }\n \* return this.\_latestValue;\n \* }\n \* if (obj !== this.\_obj) {\n \* this.\_dispose();\n \* return this.transform(obj);\n \* }\n \* return this.\_latestValue;\n \* }\n \* private \_subscribe(obj: Subscribable<any>|Promise<any>|EventEmitter<any>): void {\n \* this.\_obj = obj;\n \* this.\_strategy = this.\_selectStrategy(obj);\n \* this.\_subscription = this.\_strategy.createSubscription(\n \* obj, (value: Object) => this.\_updateLatestValue(obj, value));\n \* }\n \* private \_selectStrategy(obj: Subscribable<any>|Promise<any>|EventEmitter<any>): any {\n \* if (isPromise(obj)) {\n \* return \_promiseStrategy;\n \* }\n \* if (isSubscribable(obj)) {\n \* return \_subscribableStrategy;\n \* }\n \* throw invalidPipeArgumentError(AsyncPipe, obj);\n \* }\n \* private \_dispose(): void {\n \* this.\_strategy.dispose(this.\_subscription!);\n \* this.\_latestValue = null;\n \* this.\_subscription = null;\n \* this.\_obj = null;\n \* }\n \* private \_updateLatestValue(async: any, value: Object): void {\n \* if (async === this.\_obj) {\n \* this.\_latestValue = value;\n \* this.\_ref.markForCheck();\n \* }\n \* }\n \* }\n \* \n \* /\*\*\n \* \n \* @license\n \* \n \* Copyright Google LLC All Rights Reserved.\n

\* \n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \* \n \* \n \* import {Pipe, PipeTransform} from '@angular/core';\n \* import {invalidPipeArgumentError} from './invalid\_pipe\_argument\_error';\n \* \n \* /\*\*\n \* \n \* Transforms text to all lower case.\n \* \n \* \* @see `UpperCasePipe`\n \* \* @see `TitleCasePipe`\n \* \* @usageNotes\n \* \n \* The following example defines a view that allows the user to enter\n \* text, and then uses the pipe to convert the input text to all lower case.\n \* \n \* \* \n \* <code-example path='common/pipes/ts/lowerupper\_pipe.ts' region='LowerUpperPipe'></code-example>\n \* \n \* \* @ngModule CommonModule\n \* \* @publicApi\n \* \* \n \* @Pipe({name: 'lowercase'})\n \* \n \* export class LowerCasePipe implements PipeTransform {\n \* /\*\*\n \* \* @param value The string to transform to lower case.\n \* \* \n \* transform(value: string): string;\n \* transform(value: null|undefined): null;\n \* transform(value: string|null|undefined): string|null;\n \* transform(value: string|null|undefined): string|null {\n \* if (value == null) return null;\n \* if (typeof value !== 'string') {\n \* throw invalidPipeArgumentError(LowerCasePipe, value);\n \* }\n \* return value.toLowerCase();\n \* }\n \* }\n \* }\n \* \n \* \n \* // Regex below matches any Unicode word and number compatible with ES5. In ES2018 the same result\n \* // can be achieved by using /[0-9\\p{L}]/u and also known as Unicode Property Escapes\n \* // (https://2ality.com/2017/07/regexp-unicode-property-escapes.html). Since there is no\n \* // transpilation of this functionality down to ES5 without external tool, the only solution is\n \* // to use already transpiled form. Example can be found here -\n \* // https://mothereff.in/regexpu#input=var+regex+%3D+%2F%5B0-



9%5Cp%7BL%7D%5D%5CS\*%2Fgu%3B%0A%0A&unicodePropertyEscape=1n/\n\nconst unicodeWordMatch  
=\n /(?:[0-9A-Za-z\\xAA\\xB5\\xBA\\xC0-\\xD6\\xD8-\\xF6\\xF8-\\u02C1\\u02C6-\\u02D1\\u02E0-  
\\u02E4\\u02EC\\u02EE\\u0370-\\u0374\\u0376\\u0377\\u037A-\\u037D\\u037F\\u0386\\u0388-  
\\u038A\\u038C\\u038E-\\u03A1\\u03A3-\\u03F5\\u03F7-\\u0481\\u048A-\\u052F\\u0531-\\u0556\\u0559\\u0560-  
\\u0588\\u05D0-\\u05EA\\u05EF-\\u05F2\\u0620-\\u064A\\u066E\\u066F\\u0671-  
\\u06D3\\u06D5\\u06E5\\u06E6\\u06EE\\u06EF\\u06FA-\\u06FC\\u06FF\\u0710\\u0712-\\u072F\\u074D-  
\\u07A5\\u07B1\\u07CA-\\u07EA\\u07F4\\u07F5\\u07FA\\u0800-\\u0815\\u081A\\u0824\\u0828\\u0840-  
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\\u0961\\u0971-\\u0980\\u0985-\\u098C\\u098F\\u0990\\u0993-\\u09A8\\u09AA-\\u09B0\\u09B2\\u09B6-  
\\u09B9\\u09BD\\u09CE\\u09DC\\u09DD\\u09DF-\\u09E1\\u09F0\\u09F1\\u09FC\\u0A05-  
\\u0A0A\\u0A0F\\u0A10\\u0A13-\\u0A28\\u0A2A-  
\\u0A30\\u0A32\\u0A33\\u0A35\\u0A36\\u0A38\\u0A39\\u0A59-\\u0A5C\\u0A5E\\u0A72-\\u0A74\\u0A85-  
\\u0A8D\\u0A8F-\\u0A91\\u0A93-\\u0AA8\\u0AAA-\\u0AB0\\u0AB2\\u0AB3\\u0AB5-  
\\u0AB9\\u0ABD\\u0AD0\\u0AE0\\u0AE1\\u0AF9\\u0B05-\\u0B0C\\u0B0F\\u0B10\\u0B13-\\u0B28\\u0B2A-  
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\uDE1D]]\uD884[\uDC00-\uDF4A]]\S*/g;\n\n/**\n

```

\* Transforms text to title case.\n \* Capitalizes the first letter of each

word and transforms the\n \* rest of the word to lower case.\n \* Words are delimited by any whitespace character, such as a space, tab, or line-feed character.\n \*\n \* @see `LowerCasePipe`\n \* @see `UpperCasePipe`\n \*\n \* @usageNotes\n \* The following example shows the result of transforming various strings into title case.\n \*\n \* <code-example path=\"common/pipes/ts/titlecase\_pipe.ts\" region='TitleCasePipe'></code-example>\n \*\n \* @ngModule CommonModule\n \* @publicApi\n \* /\n \* @Pipe({name: 'titlecase'})\n \* export class TitleCasePipe implements PipeTransform {\n \* /\*\*\n \* \* @param value The string to transform to title case.\n \* \*/\n \* transform(value: string): string;\n \* transform(value: null|undefined): null;\n \* transform(value: string|null|undefined): string|null;\n \* transform(value: string|null|undefined): string|null {\n \* if (value == null) return null;\n \* if (typeof value !== 'string') {\n \* throw invalidPipeArgumentError(TitleCasePipe, value);\n \* }\n \* return value.replace(\n \* unicodeWordMatch, (txt => txt[0].toUpperCase() + txt.substr(1).toLowerCase());\n \* );\n \* }\n \* }\n\n/\*\*\n

Transforms text to all upper case.\n \* @see `LowerCasePipe`\n \* @see `TitleCasePipe`\n \*\n \* @ngModule CommonModule\n \* @publicApi\n \* /\n \* @Pipe({name: 'uppercase'})\n \* export class UpperCasePipe implements PipeTransform {\n \* /\*\*\n \* \* @param value The string to transform to upper case.\n \* \*/\n \* transform(value: string): string;\n \* transform(value: null|undefined): null;\n \* transform(value: string|null|undefined): string|null;\n \* transform(value: string|null|undefined): string|null {\n \* if (value == null) return null;\n \* if (typeof value !== 'string') {\n \* throw invalidPipeArgumentError(UpperCasePipe, value);\n \* }\n \* return value.toUpperCase();\n \* }\n \* }\n\n"/\*\*\n \* @license\n \* Copyright Google LLC All Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at <https://angular.io/license>\n \*/\n\nimport

```

{Inject, InjectionToken, LOCALE_ID, Optional, Pipe, PipeTransform} from '@angular/core';\n\nimport {formatDate} from './i18n/format_date';\n\nimport {invalidPipeArgumentError} from './invalid_pipe_argument_error';\n\n/**\n * Optionally-provided default timezone to use for all instances of `DatePipe` (such as `'+0430`').\n * If the value isn't provided, the `DatePipe` will use the end-user's local system timezone.\n */\nexport const DATE_PIPE_DEFAULT_TIMEZONE = new InjectionToken<string>('DATE_PIPE_DEFAULT_TIMEZONE');\n\n// clang-format off\n\n/**\n * @ngModule CommonModule\n * @description\n * \n * Formats a date value according to locale rules.\n * \n * `DatePipe` is executed only when it detects a pure change to the input value.\n * A pure change is either a change to a primitive input value\n * (such as `String`, `Number`, `Boolean`, or `Symbol`),\n * or a changed object reference (such as `Date`, `Array`, `Function`, or `Object`).\n * \n * Note that mutating a `Date` object does not cause the pipe to be rendered again.\n * \n * To ensure that the pipe is executed, you must create a new `Date` object.\n * \n * Only the `en-US` locale data comes with Angular. To localize dates\n * in another language, you must import the corresponding locale data.\n * \n * See the [I18n guide](guide/i18n-common-format-data-locale) for more information.\n * \n * The time zone of the formatted value can be specified either by passing it in as the second\n * parameter of the pipe, or by setting the default through the `DATE_PIPE_DEFAULT_TIMEZONE`\n * injection token. The value that is passed in as the second parameter takes precedence over\n * the one defined using the injection token.\n * \n * @see `formatDate()`\n * \n * @usageNotes\n * \n * The result of this pipe is not reevaluated when the input is mutated. To avoid the need to\n * reformat the date on every change-detection cycle,
```



Numeric: 2 digits + zero padded | 01 | \n \* | Week day |

E, EE & EEE | Abbreviated | Tue | \n \* |

| EEEE | Wide | Tuesday | \n \* |

| EEEEE | Narrow

| T | \n \* | | EEEEE | Short

| Tu | \n \* | Week day standalone | c, cc | Numeric: 1 digit

| 2 | \n \* | | ccc | Abbreviated

| Tue | \n \* | | cccc | Wide

| Tuesday | \n \* | | ccccc | Narrow

| T | \n \* | | cccccc | Short

| Tu | \n \* | Period | a, aa & aaa | Abbreviated

| am/pm or AM/PM | \n \* | | aaaa | Wide

(fallback to `a` when missing) | ante meridiem/post meridiem | \n \* |

| aaaaa | Narrow | a/p | \n \* | Period\*

| B, BB & BBB | Abbreviated | mid. | \n \* |

| BBBB | Wide | am, pm, midnight, noon, morning, afternoon, evening,

night | \n \* | | BBBBB | Narrow

| md | \n \* | Period standalone\* | b, bb & bbb |

Abbreviated | mid. | \n \* | | bbbb |

Wide | am, pm, midnight, noon, morning, afternoon, evening, night | \n \* |

| bbbbb | Narrow | md | \n \* | Hour 1-

12 | h | Numeric: minimum digits | 1, 12 | \n \* |

| hh | Numeric: 2 digits + zero padded | 01, 12 | \n

\* | Hour 0-23 | H | Numeric:

minimum digits | 0, 23 | \n \* | | HH |

Numeric: 2 digits + zero padded | 00, 23 | \n \* | Minute |

m | Numeric: minimum digits | 8, 59 | \n \* |

| mm | Numeric: 2 digits + zero padded | 08, 59 | \n \* |

Second | s | Numeric: minimum digits | 0... 59

| \n \* | | ss | Numeric: 2 digits + zero padded | 00... 59

| \n \* | Fractional seconds | S

| Numeric: 1 digit | 0... 9 | \n \* | | SS |

Numeric: 2 digits + zero padded | 00... 99 | \n \* | | SSS

| Numeric: 3 digits + zero padded (= milliseconds) | 000... 999 | \n \* |

Zone | z, zz & zzz | Short specific non location format (fallback to O) | GMT-8

| \n \* | | zzzz | Long specific non location format (fallback to OOOO) | GMT-08:00

| \n \* | | Z, ZZ & ZZZ | ISO8601 basic format | -

0800 | \n \* | | ZZZZ

| Long localized GMT format | GMT-8:00 | \n \* |

| ZZZZZ | ISO8601 extended format + Z indicator for offset 0 (= XXXXX) | -08:00

| \n \* | | O, OO & OOO | Short localized GMT format | GMT-8

| \n \* | | OOOO | Long localized GMT format | GMT-

08:00 | \n \* \n \* \n \* #### Format examples \n \* \n \* These examples transform a date into

various formats, \n \* assuming that `dateObj` is a JavaScript `Date` object for \n \* year: 2015, month: 6, day: 15,

hour: 21, minute: 43, second: 11, \n \* given in the local time for the `en-US` locale. \n \* \n \* ``` \n \* {{ dateObj | date

}} // output is 'Jun 15, 2015' \n \*

{{ dateObj | date:'medium' }} // output is 'Jun 15, 2015, 9:43:11 PM' \n \* {{ dateObj | date:'shortTime' }} //

output is '9:43 PM' \n \* {{ dateObj | date:'mm:ss' }} // output is '43:11' \n \* \n \* #### Usage example \n \* \n \*

The following component uses a date pipe to display the current date in different formats.

```

@Component({
 selector: 'date-pipe',
 template: `<div>
 <p>Today is {{today | date}}</p>
 Or if you prefer, {{today | date:'fullDate'}}</p>
 <p>The time is {{today | date:'h:mm a z'}}</p>
 </div>`
})
// Get the current date and time as a date-time value.
export class DatePipeComponent {
 today: number = Date.now();
}

@publicApi
// clang-format on
@Pipe({name: 'date', pure: true})
export class DatePipe implements PipeTransform {
 constructor(
 @Inject(LOCALE_ID) private locale: string,
 @Inject(
 DATE_PIPE_DEFAULT_TIMEZONE
) @Optional() private defaultTimezone?: string | null
) {}

 /**
 * @param value The date expression: a `Date` object, a number (milliseconds since UTC epoch), or an ISO string (https://www.w3.org/TR/NOTE-datetime).
 * @param format The date/time components to include, using predefined options or a custom format string.
 * @param timezone A timezone offset (such as `+0430`), or a standard UTC/GMT, or continental US timezone abbreviation. When not supplied, either the value of the `DATE_PIPE_DEFAULT_TIMEZONE` injection token is used or the end-user's local system timezone.
 * @param locale A locale code for the locale format rules to use. When not supplied, uses the value of `LOCALE_ID`, which is `en-US` by default. See [Setting your app locale](guide/i18n-common-locale-id).
 * @returns A date string in the desired format.
 */
 transform(
 value: Date | string | number,
 format?: string,
 timezone?: string,
 locale?: string
): string | null | undefined {
 format = format ?? 'mediumDate';
 return this.transform(
 value,
 format,
 timezone,
 locale
);
 }

 transform(
 value: Date | string | number | null | undefined,
 format?: string,
 timezone?: string,
 locale?: string
): string | null {
 if (value == null || value === '' || value !== value) return null;
 try {
 return formatDate(
 value,
 format,
 locale || this.locale,
 timezone ?? this.defaultTimezone ?? undefined
);
 } catch (error) {
 throw invalidPipeArgumentError(
 DatePipe,
 (error as Error).message
);
 }
 }
}

/**
 * @license
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 */
import {Pipe, PipeTransform} from '@angular/core';
import {getPluralCategory, NgLocalization} from '../i18n/localization';
import {invalidPipeArgumentError} from './invalid_pipe_argument_error';
const _INTERPOLATION_REGEXP: RegExp = /#\{g;

/**
 * @ngModule CommonModule
 * @description
 * Maps a value to a string that pluralizes the value according to locale rules.
 * @usageNotes
 * ### Example
 *
 * {
 * @example
 * common/pipes/ts/i18n_pipe.ts
 * region='I18nPluralPipeComponent'
 * }
 * @publicApi
 */
@Pipe({name: 'i18nPlural', pure: true})
export class I18nPluralPipe implements PipeTransform {
 constructor(
 private _localization: NgLocalization
) {}

 /**
 * @param value the number to be formatted
 * @param pluralMap an object that mimics the ICU format, see http://userguide.icu-project.org/formatparse/messages.
 * @param locale a `string` defining the locale to use (uses the current {LOCALE_ID} by default).
 */
 transform(
 value: number | null | undefined,
 pluralMap: {[count: string]: string},
 locale?: string
): string {
 if (value == null) return '';
 if (typeof pluralMap !== 'object' || pluralMap === null) {
 throw invalidPipeArgumentError(I18nPluralPipe, pluralMap);
 }
 const key = getPluralCategory(value, Object.keys(pluralMap), this._localization, locale);
 return pluralMap[key].replace(_INTERPOLATION_REGEXP, value.toString());
 }
}

/**
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 */
import {Pipe, PipeTransform} from '@angular/core';
import {invalidPipeArgumentError} from './invalid_pipe_argument_error';
const _INTERPOLATION_REGEXP: RegExp = /#\{g;

/**
 * @ngModule CommonModule
 * @description
 * Generic selector that displays the string that matches the current value.
 * If none of the keys of the `mapping` match the `value`, then the content of the `other` key is returned when present, otherwise an empty string is returned.
 * @usageNotes
 * ### Example
 *
 * {
 * @example
 * common/pipes/ts/i18n_pipe.ts
 * region='I18nSelectPipeComponent'
 * }
 * @publicApi
 */
@Pipe({name: 'i18nSelect', pure: true})
export class I18nSelectPipe implements PipeTransform

```

```
{\n /**\n * @param value a string to be internationalized.\n * @param mapping an object that indicates the text\n that should be displayed\n * for different values of the provided `value`.\n */\n transform(value:\n string|null|undefined, mapping: {[key: string]: string}): string {\n if (value == null) return ";\n\n if (typeof\n mapping !== 'object' || typeof value !== 'string') {\n throw invalidPipeArgumentError(I18nSelectPipe,\n mapping);\n }\n\n if (mapping.hasOwnProperty(value)) {\n return mapping[value];\n }\n\n if\n (mapping.hasOwnProperty('other')) {\n return mapping['other'];\n }\n\n return ";\n }\n}\n", "/**\n *\n @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-\n style
```

2);\n }\n}\n","/\*\*\n \* @license\n \* Copyright Google LLC All Rights Reserved.\n \*\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at <https://angular.io/license>\n

Examples\n \* \n \* This examples show how an Object or a Map can be iterated by ngFor with the use of this\n \* keyvalue pipe.\n \* \n \* {@example common/pipes/ts/keyvalue\_pipe.ts region='KeyValuePipe'}\n \* \n \*

```

KeyValue<K, V>, b: KeyValue<K, V> => number): Array<KeyValue<K, V>>;\n
transform<K extends number, V>(\n
 input: Record<K, V>, compareFn?: (a: KeyValue<string, V>, b: KeyValue<string, V>) => number):\n
Array<KeyValue<string, V>>;\n
transform<K extends string, V>(\n
 input: Record<K, V>|ReadOnlyMap<K, V>,\n
 compareFn?:

```

```

KeyValue<K, V> => number): Array<KeyValue<K, V>>|null;\n transform<K, V>(n input:
undefined|null|[{key: string]: V, [key: number]: V}|ReadOnlyMap<K, V>,\n compareFn: (a: KeyValue<K, V>, b:
KeyValue<K, V>) => number = defaultComparator):\n Array<KeyValue<K,

```

```

V>>|null {\n if (!input || (!input instanceof Map) && typeof input !== 'object')) {\n return null;\n }\n if (!this.differ) {\n // make a differ for whatever type we've been passed in\n this.differ = this.differ.find(input).create();\n }\n const differChanges: KeyValueChanges<K, V>|null = this.differ.diff(input as any);\n const compareFnChanged = compareFn !== this.compareFn;\n if (differChanges) {\n this.keyValues = [];\n differChanges.forEachItem((r: KeyValueChangeRecord<K, V>) => {\n this.keyValues.push(makeKeyValuePair(r.key, r.currentValue!));\n });\n }\n if (differChanges || compareFnChanged) {\n this.keyValues.sort(compareFn);\n this.compareFn = compareFn;\n }\n return this.keyValues;\n }\n}\n\nexport function defaultComparator<K, V>(\n keyValueA: KeyValue<K, V>,\n keyValueB: KeyValue<K, V>): number {\n const a = keyValueA.key;\n const b = keyValueB.key;\n // if same exit with 0;\n\n if (a === b) return 0;\n // make sure that undefined are at the end of the sort.\n if (a === undefined) return 1;\n if (b === undefined) return -1;\n // make sure that nulls are at the end of the sort.\n if (a === null) return 1;\n if (b === null) return -1;\n if (typeof a === 'string' && typeof b === 'string') {\n return a < b ? -1 : 1;\n }\n if (typeof a === 'number' && typeof b === 'number') {\n return a - b;\n }\n if (typeof a === 'boolean' && typeof b === 'boolean') {\n return a < b ? -1 : 1;\n }\n // `a` and `b` are of different types. Compare their string values.\n const aString = String(a);\n const bString = String(b);\n return aString === bString ? 0 : aString < bString ? -1 : 1;\n}\n"/**\n *\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {\n DEFAULT_CURRENCY_CODE, Inject, LOCALE_ID, Pipe, PipeTransform\n} from '@angular/core';\nimport {formatCurrency, formatNumber, formatPercent} from './i18n/format_number';\nimport {getCurrencySymbol} from './i18n/locale_data_api';\nimport {\n invalidPipeArgumentError\n} from './invalid_pipe_argument_error';\n\n/**\n * @ngModule CommonModule\n *\n * @description\n * Formats a value according to digit options and locale rules.\n * Locale determines group sizing and separator,\n * decimal point character, and other locale-specific configurations.\n *\n * @see `formatNumber`\n *\n * @usageNotes\n * ### digitsInfo\n * The value's decimal representation is specified by the `digitsInfo` parameter, written in the following format:

\n * {\n * minIntegerDigits: The minimum number of integer digits before the decimal point. Default is 1.\n * minFractionDigits: The minimum number of digits after the decimal point. Default is 0.\n * maxFractionDigits: The maximum number of digits after the decimal point. Default is 3.\n * }\n * If the formatted value is truncated it will be rounded using the "to-nearest" method:

\n * {\n * number: '1.0-0'\n * }

\n * will output '4'-->\n * {\n * number: '1.0-0'\n * }

\n * will output '-4'-->\n * {\n * number: '1.0-0'\n * }\n *\n * locale\n * `locale` will format a value according to locale rules.\n * Locale determines group sizing and separator,\n * decimal point character, and other locale-specific configurations.\n *\n * When not supplied, uses the value of `LOCALE_ID`, which is `en-US` by default.\n * See [Setting your app locale](guide/i18n-common-locale-id).\n *\n * ### Example\n * The following code shows how the pipe transforms values according to various format specifications, where the caller's default locale is `en-US`.
<code-example path='\"common/pipes/ts/number_pipe.ts\"' region='NumberPipe'>\n * @publicApi\n *\n * @Pipe({name: 'number'})\n * export class DecimalPipe implements PipeTransform {\n * constructor(@Inject(LOCALE_ID) private _locale: string) {}\n *\n * transform(value: number|string, digitsInfo?: string, locale?: string): string|null;\n * transform(value: null|undefined, digitsInfo?: string, locale?: string): null;\n * transform(value: number|string|null|undefined, digitsInfo?: string, locale?: string): string|null;\n *\n * @param value The value to be formatted.\n * @param digitsInfo Sets digit and decimal representation. [See more](#digitsinfo).\n * @param locale Specifies what locale format rules to use. [See more](#locale).\n *\n * transform(value: number|string|null|undefined, digitsInfo?: string, locale?: string): string\n * |null {\n * if (!isValue(value)) return null;\n * locale = locale || this._locale;\n * try {\n * const num = strToNumber(value);\n * return formatNumber(num, locale, digitsInfo);\n * } catch (error) {\n * throw invalidPipeArgumentError(DecimalPipe,\n
```



(error as Error).message);\n }\n }\n}\n\n/\*\*\n \* @ngModule CommonModule\n \* @description\n \*\n \* Transforms a number to a percentage\n \* string, formatted according to locale rules that determine group sizing and\n \* separator, decimal-point character, and other locale-specific\n \* configurations.\n \*\n \* @see `formatPercent()`\n \*\n \* @usageNotes\n \* The following code shows how the pipe transforms numbers\n \* into text strings, according to various format specifications,\n \* where the caller's default locale is `en-US`.\n \*\n \* <code-example path=\"common/pipes/ts/percent\_pipe.ts\" region='PercentPipe'></code-example>\n \*\n \* @publicApi\n \*/\n@Pipe({name: 'percent'})\nexport class PercentPipe implements PipeTransform {\n constructor(@Inject(LOCALE\_ID) private \_locale: string) {}\n\n transform(value: number|string, digitsInfo?: string, locale?: string): string|null;\n transform(value: null|undefined, digitsInfo?: string, locale?: string): null;\n transform(value: number|string|null|undefined, digitsInfo?: string, locale?: string): string|null;\n\n /\*\*\n \*\n \* @param value The number to be formatted as a percentage.\n \*\n \* @param digitsInfo Decimal representation options, specified by a string\n \* in the following format: <br>\n \* <code>{minIntegerDigits}.{minFractionDigits}-{maxFractionDigits}</code>.\n \* - `minIntegerDigits`: The minimum number of integer digits before the decimal point.\n \* Default is `1`.\n \* - `minFractionDigits`: The minimum number of digits after the decimal point.\n \* Default is `0`.\n \* - `maxFractionDigits`: The maximum number of digits after the decimal point.\n \* Default is `0`.\n \*\n \* @param locale A locale code for the locale format rules to use.\n \* When not supplied, uses the value of `LOCALE\_ID`, which is `en-US` by default.\n \* See [Setting your app locale](guide/i18n-common-locale-id).\n \*\n \*/\n transform(value: number|string|null|undefined, digitsInfo?: string, locale?: string): string|\n |null {\n if (!isValue(value)) return null;\n locale = locale || this.\_locale;\n try {\n const num = strToNumber(value);\n return formatPercent(num, locale, digitsInfo);\n } catch (error) {\n throw invalidPipeArgumentError(PercentPipe, (error as Error).message);\n }\n }\n}\n\n\n/\*\*\n \* @ngModule CommonModule\n \* @description\n \*\n \* Transforms a number to a currency string, formatted according to locale rules\n \* that determine group sizing and separator, decimal-point character,\n \* and other locale-specific configurations.\n \*\n \* {@a currency-code-deprecation}\n \* <div class=\"alert is-helpful\">\n \*\n \* \*\*\*Deprecation notice:\*\*\*\n \*\n \* The default currency code is currently always `USD` but this is deprecated from v9.\n \*\n \* \*\*\*In v11 the default currency code will be taken from the current locale identified by\n \* the `LOCALE\_ID` token. See the [i18n guide](guide/i18n-common-locale-id) for\n \* more information.\*\*\*\n \*\n \* If you need the previous behavior then set it by creating a `DEFAULT\_CURRENCY\_CODE` provider in\n \* your application `NgModule`:\n \*\n \* ``ts\n \* {provide: DEFAULT\_CURRENCY\_CODE, useValue: 'USD'}\n \* ``\n \*\n \* </div>\n \*\n \* @see `getCurrencySymbol()`\n \*\n \* @see `formatCurrency()`\n \*\n \* @usageNotes\n \* The following code shows how the pipe transforms numbers\n \* into text strings, according to various format specifications,\n \* where the caller's default locale is `en-US`.\n \*\n \* <code-example path=\"common/pipes/ts/currency\_pipe.ts\" region='CurrencyPipe'></code-example>\n \*\n \* @publicApi\n \*/\n@Pipe({name: 'currency'})\nexport class CurrencyPipe implements PipeTransform {\n constructor(\n @Inject(LOCALE\_ID) private \_locale: string,\n @Inject(DEFAULT\_CURRENCY\_CODE) private \_defaultCurrencyCode: string = 'USD') {\n }\n\n transform(\n value: number|string, currencyCode?: string,\n display?: 'code'|'symbol'|'symbol-narrow'|string|boolean, digitsInfo?: string,\n locale?: string): string|null;\n transform(\n value: null|undefined, currencyCode?: string,\n display?: 'code'|'symbol'|'symbol-narrow'|string|boolean, digitsInfo?: string,\n locale?: string): null;\n transform(\n value: number|string|null|undefined, currencyCode?: string,\n display?: 'code'|'symbol'|'symbol-narrow'|string|boolean, digitsInfo?: string,\n locale?: string): string|null;\n\n /\*\*\n \*\n \* @param value The number to be formatted as currency.\n \*\n \* @param currencyCode The [ISO 4217](https://en.wikipedia.org/wiki/ISO\_4217) currency code,\n \* such as `USD` for the US dollar and `EUR` for the euro. The default currency code can be\n \* configured using the `DEFAULT\_CURRENCY\_CODE` injection token.\n \*\n \* @param display The format for the currency indicator. One of the following:\n \* - `code`: Show the code (such as `USD`).\n \* - `symbol` (default): Show the symbol (such as `\$`).\n \* - `symbol-narrow`: Use the narrow symbol for locales

that have two symbols for their currency. For example, the Canadian dollar CAD has the symbol `CA\$` and the symbol-narrow `\$`. If the locale has no narrow symbol, uses the standard symbol for the locale.

String: Use the given string value instead of a code or a symbol. For example, an empty string will suppress the currency & symbol.

Boolean (marked deprecated in v5): `true` for symbol and false for `code`.

@param digitsInfo Decimal representation options, specified by a string in the following format:

```
<code>{minIntegerDigits}.{minFractionDigits}-{maxFractionDigits}</code>
```

- `minIntegerDigits`: The minimum number of integer digits before the decimal point. Default is `1`.
- `minFractionDigits`: The minimum number of digits after the decimal point. Default is `2`.
- `maxFractionDigits`: The maximum number of digits after the decimal point. Default is `2`.

If not provided, the number will be formatted with the proper amount of digits, depending on what the [ISO 4217](https://en.wikipedia.org/wiki/ISO\_4217) specifies. For example, the Canadian dollar has 2 digits, whereas the Chilean peso has none.

@param locale A locale code for the locale format rules to use. When not supplied, uses the value of `LOCALE\_ID`, which is `en-US` by default. See [Setting your app locale](guide/i18n-common-locale-id).

```
transform(value: number|string|null|undefined, currencyCode: string = this._defaultCurrencyCode, display: 'code'|'symbol'|'symbol-narrow'|string|boolean = 'symbol', digitsInfo?: string, locale?: string): string|null {
 if (!isValue(value)) return null;
 locale = locale || this._locale;
 if (typeof display === 'boolean') {
 if ((typeof ngDevMode === 'undefined' || ngDevMode) && console.warn) {
 console.warn('Warning: the currency pipe has been changed in Angular v5. The symbolDisplay option (third parameter) is now a string instead of a boolean. The accepted values are \'code\', \'symbol\' or \'symbol-narrow\'.');
 }
 display = display ? 'symbol' : 'code';
 }
 let currency: string = currencyCode || this._defaultCurrencyCode;
 if (display !== 'code') {
 if (display === 'symbol' || display === 'symbol-narrow') {
 currency = getCurrencySymbol(currency, display === 'symbol' ? 'wide' : 'narrow', locale);
 } else {
 currency = display;
 }
 }
 try {
 const num = strToNumber(value);
 return formatCurrency(num, locale, currency, currencyCode, digitsInfo);
 } catch (error) {
 throw invalidPipeArgumentError(CurrencyPipe, (error as Error).message);
 }
}

function isValue(value: number|string|null|undefined): value is number|string {
 return !(value == null || value === '' || value !== value);
}
```

**Transforms a string into a number (if needed).**

```
function strToNumber(value: number|string): number {
 // Convert strings to numbers
 if (typeof value === 'string' && !isNaN(Number(value) - parseFloat(value))) {
 return Number(value);
 }
 if (typeof value !== 'number') {
 throw new Error(`${value} is not a number`);
 }
 return value;
}
```

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**Imports**  
 {Pipe, PipeTransform} from '@angular/core';  
 invalidPipeArgumentError from './invalid\_pipe\_argument\_error';

**NgModule**  
 CommonModule

**Description**  
 Creates a new `Array` or `String` containing a subset (slice) of the elements.

**Usage Notes**  
 All behavior is based on the expected behavior of the JavaScript API `Array.prototype.slice()` and `String.prototype.slice()`.

**When operating on an `Array`, the returned `Array` is always a copy even when all the elements are being returned.**

**When operating on a blank value, the pipe returns the blank value.**

**List Example**  
 This `ngFor` example: `{@example common/pipes/ts/slice_pipe.ts region='SlicePipe_list'}` produces the following:

```
b
c
```

**String Examples**  
 This example: `{@example common/pipes/ts/slice_pipe.ts region='SlicePipe_string'}` produces the following:

```
publicApi
@Pipe({name: 'slice', pure: false})
export class SlicePipe implements PipeTransform {
 @param value a list or a string to be sliced.
 @param start the starting index of the subset to return:
 - a positive integer: return the item at `start` index and all items after
 - a negative integer: return the item at `start` index from the end and all items after
 - if positive and greater than the size of the expression: return an empty list or string.
 - if negative and greater than the size of the expression: return entire list or string.
 @param end the
```

```

ending index of the subset to return:\n * - **omitted**: return all items until the end.\n * - **if positive**:
return all items before `end` index of the list or string.\n * - **if negative**: return all items before `end` index
from the end of the list or string.\n * /\n transform<T>(value: ReadonlyArray<T>, start: number, end?: number):
Array<T>;\n transform(value: null|undefined, start: number, end?: number): null;\n transform<T>(value:
ReadonlyArray<T>|null|undefined, start: number, end?: number): Array<T>|null;\n transform(value: string, start:
number, end?: number): string;\n transform(value: string|null|undefined, start: number, end?: number): string|null;\n
transform<T>(value: ReadonlyArray<T>|string|null|undefined, start:
number, end?: number):\n Array<T>|string|null {\n if (value == null) return null;\n\n if
(!this.supports(value)) {\n throw invalidPipeArgumentError(SlicePipe, value);\n }\n\n return value.slice(start,
end);\n }\n\n private supports(obj: any): boolean {\n return typeof obj === 'string' || Array.isArray(obj);\n }\n}\n", "/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\n\n * @module\n * @description\n * This module provides a set of common Pipes.\n */\nimport
{AsyncPipe} from './async_pipe';\nimport {LowerCasePipe, TitleCasePipe, UpperCasePipe} from
'./case_conversion_pipes';\nimport {DATE_PIPE_DEFAULT_TIMEZONE, DatePipe} from './date_pipe';\nimport
{I18nPluralPipe} from './i18n_plural_pipe';\nimport {I18nSelectPipe} from './i18n_select_pipe';\nimport {JsonPipe}
from './json_pipe';\nimport {KeyValue,
KeyValuePipe} from './keyvalue_pipe';\nimport {CurrencyPipe, DecimalPipe, PercentPipe} from
'./number_pipe';\nimport {SlicePipe} from './slice_pipe';\n\nexport {\n AsyncPipe,\n CurrencyPipe,\n
DATE_PIPE_DEFAULT_TIMEZONE,\n DatePipe,\n DecimalPipe,\n I18nPluralPipe,\n I18nSelectPipe,\n
JsonPipe,\n KeyValue,\n KeyValuePipe,\n LowerCasePipe,\n PercentPipe,\n SlicePipe,\n TitleCasePipe,\n
UpperCasePipe,\n};\n\n\n\n * A collection of Angular pipes that are likely to be used in each and every
application.\n */\nexport const COMMON_PIPES = [\n AsyncPipe,\n UpperCasePipe,\n LowerCasePipe,\n
JsonPipe,\n SlicePipe,\n DecimalPipe,\n PercentPipe,\n TitleCasePipe,\n CurrencyPipe,\n DatePipe,\n
I18nPluralPipe,\n I18nSelectPipe,\n KeyValuePipe,\n];\n", "/**\n * @license\n * Copyright Google LLC All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport
{NgModule} from '@angular/core';\nimport {COMMON_DIRECTIVES} from './directives/index';\nimport
{COMMON_PIPES} from './pipes/index';\n\n\n\n// Note: This does not contain the location providers,\n// as they
need some platform specific implementations to work.\n\n\n * Exports all the basic Angular directives and pipes,\n
* such as `NgIf`, `NgForOf`, `DecimalPipe`, and so on.\n * Re-exported by `BrowserModule`, which is included
automatically in the root\n * `AppModule` when you create a new app with the CLI `new` command.\n * \n * \n * The
`providers` options configure the NgModule's injector to provide\n * localization dependencies to members.\n * \n *
The `exports` options make the declared directives and pipes available for import\n * by other NgModules.\n * \n *
@publicApi\n */\n@NgModule({\n declarations: [COMMON_DIRECTIVES, COMMON_PIPES],\n exports:
[COMMON_DIRECTIVES, COMMON_PIPES],\n})\nexport class CommonModule {\n}\n", "/**\n * @license\n *
Copyright Google LLC All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\n\nexport const PLATFORM_BROWSER_ID = 'browser';\nexport const
PLATFORM_SERVER_ID = 'server';\nexport const PLATFORM_WORKER_APP_ID =
'browserWorkerApp';\nexport const PLATFORM_WORKER_UI_ID = 'browserWorkerUi';\n\n\n\n * Returns
whether a platform id represents a browser platform.\n * @publicApi\n */\nexport function
isPlatformBrowser(platformId: Object): boolean {\n return platformId ===
PLATFORM_BROWSER_ID;\n}\n\n\n\n * Returns whether a platform id represents a server platform.\n *
@publicApi\n */\nexport function isPlatformServer(platformId: Object): boolean {\n return platformId ===
PLATFORM_SERVER_ID;\n}\n\n\n\n * Returns whether a platform id represents a web worker app platform.\n *
@publicApi\n */\nexport function isPlatformWorkerApp(platformId: Object): boolean {\n return platformId ===
PLATFORM_WORKER_APP_ID;\n}\n\n\n\n *

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Returns whether a platform id represents a web worker UI platform.\n * @publicApi\n * ^\nexport function
isPlatformWorkerUi(platformId: Object): boolean {\n return platformId ===
PLATFORM_WORKER_UI_ID;\n}\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n *
Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\n\n**\n * @module\n * @description\n * Entry point for all public APIs of the
common package.\n *\n\nimport {Version} from '@angular/core';\n\n/**\n * @publicApi\n * ^\nexport const
VERSION = new Version('13.2.7');\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n *
Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\n\nimport {defineInjectable, inject} from '@angular/core';\n\nimport {DOCUMENT}
from './dom_tokens';\n\n\n\n**\n * Defines a scroll position manager.
\n\nImplemented by `BrowserViewportScroller`.\n *\n * @publicApi\n * ^\nexport abstract class ViewportScroller {\n
// De-sugared tree-shakable injection\n // See #23917\n /** @nocollapse */\n static prov = /**
@pureOrBreakMyCode */\n defineInjectable({\n token: ViewportScroller,\n providedIn: 'root',\n factory: () =>
new BrowserViewportScroller(inject(DOCUMENT), window)\n });\n\n /**\n * Configures the top offset used
when scrolling to an anchor.\n * @param offset A position in screen coordinates (a tuple with x and y values)\n *
or a function that returns the top offset position.\n *\n * ^\n abstract setOffset(offset: [number, number])(() =>
[number, number]): void;\n\n /**\n * Retrieves the current scroll position.\n * @returns A position in screen
coordinates (a tuple with x and y values).\n *\n * ^\n abstract getScrollPosition(): [number, number];\n\n /**\n *
Scrolls to a specified position.\n * @param position A position in screen coordinates (a tuple
with x and y values).\n *\n * ^\n abstract scrollToPosition(position: [number, number]): void;\n\n /**\n *
Scrolls to an anchor element.\n * @param anchor The ID of the anchor element.\n *\n * ^\n abstract scrollToAnchor(anchor:
string): void;\n\n /**\n * Disables automatic scroll restoration provided by the browser.\n * See also
[window.history.scrollRestoration\n * info](https://developers.google.com/web/updates/2015/09/history-api-scroll-
restoration).\n *\n * ^\n abstract setHistoryScrollRestoration(scrollRestoration: 'auto'|'manual'): void;\n\n\n\n**\n *
Manages the scroll position for a browser window.\n * ^\nexport class BrowserViewportScroller implements
ViewportScroller {\n private offset: () => [number, number] = () => [0, 0];\n\n constructor(private document:
Document, private window: Window) {\n\n /**\n * Configures the top offset used when scrolling to an anchor.\n
* @param offset A position in screen coordinates (a tuple with x and y values)\n * or a function
that returns the top offset position.\n *\n * ^\n setOffset(offset: [number, number])(() => [number, number]): void
{\n if (Array.isArray(offset)) {\n this.offset = () => offset;\n } else {\n this.offset = offset;\n }\n }\n\n\n
/**\n * Retrieves the current scroll position.\n * @returns The position in screen coordinates.\n *\n * ^\n
getScrollPosition(): [number, number] {\n if (this.supportsScrolling()) {\n return [this.window.pageXOffset,
this.window.pageYOffset];\n } else {\n return [0, 0];\n }\n }\n\n /**\n * Sets the scroll position.\n *
@param position The new position in screen coordinates.\n *\n * ^\n scrollToPosition(position: [number, number]):
void {\n if (this.supportsScrolling()) {\n this.window.scrollTo(position[0], position[1]);\n }\n }\n\n /**\n *
Scrolls to an element and attempts to focus the element.\n *\n * Note that the function name here is misleading in
that the target string may be an ID for
a\n * non-anchor element.\n *\n * @param target The ID of an element or name of the anchor.\n *\n * @see
https://html.spec.whatwg.org/#the-indicated-part-of-the-document\n * @see https://html.spec.whatwg.org/#scroll-
to-fragid\n *\n * ^\n scrollToAnchor(target: string): void {\n if (!this.supportsScrolling()) {\n return;\n }\n\n
const elSelected = findAnchorFromDocument(this.document, target);\n\n if (elSelected) {\n
this.scrollToElement(elSelected);\n // After scrolling to the element, the spec dictates that we follow the focus
steps for the\n // target. Rather than following the robust steps, simply attempt focus.\n //\n // @see
https://html.spec.whatwg.org/#get-the-focusable-area\n // @see https://developer.mozilla.org/en-
US/docs/Web/API/HTMLOrForeignElement/focus\n // @see https://html.spec.whatwg.org/#focusable-area\n
elSelected.focus();\n }\n }\n\n /**\n * Disables automatic scroll restoration provided by
the browser.\n *\n * ^\n setHistoryScrollRestoration(scrollRestoration: 'auto'|'manual'): void {\n if
(this.supportScrollRestoration()) {\n const history = this.window.history;\n if (history &

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history.scrollRestoration) {\n history.scrollRestoration = scrollRestoration;\n }\n }\n}\n\n/**\n * Scrolls to an element using the native offset and the specified offset set on this scroller.\n * The offset can be used when we know that there is a floating header and scrolling naively to an\n * element (ex: `scrollIntoView`) leaves the element hidden behind the floating header.\n */\n private scrollToElement(el: HTMLElement): void {\n const rect = el.getBoundingClientRect();\n const left = rect.left + this.window.pageXOffset;\n const top = rect.top + this.window.pageYOffset;\n const offset = this.offset();\n this.window.scrollTo(left - offset[0], top - offset[1]);\n }\n\n/**\n * We only support scroll restoration when we can get a hold of window.\n * This means that we do not support this behavior when running in a web worker.\n *\n * Lifting this restriction right now would require more changes in the dom adapter.\n * Since webworkers aren't widely used, we will lift it once RouterScroller is\n * battle-tested.\n */\n private supportScrollRestoration(): boolean {\n try {\n if (!this.supportsScrolling()) {\n return false;\n }\n // The `scrollRestoration` property could be on the `history` instance or its prototype.\n const scrollRestorationDescriptor = getScrollRestorationProperty(this.window.history) ||\n getScrollRestorationProperty(Object.getPrototypeOf(this.window.history));\n // We can write to the `scrollRestoration` property if it is a writable data field or it has a\n // setter function.\n return !!scrollRestorationDescriptor &&\n !(scrollRestorationDescriptor.writable || scrollRestorationDescriptor.set);\n } catch {\n return false;\n }\n }\n\n private supportsScrolling(): boolean {\n try {\n return !!this.window &&\n !!this.window.scrollTo && 'pageXOffset' in this.window;\n } catch {\n return false;\n }\n }\n}\n\nfunction getScrollRestorationProperty(obj: any): PropertyDescriptor|undefined {\n return Object.getOwnPropertyDescriptor(obj, 'scrollRestoration');\n}\n\nfunction findAnchorFromDocument(document: Document, target: string): HTMLElement|null {\n const documentResult = document.getElementById(target) ||\n document.getElementsByName(target)[0];\n if (documentResult) {\n return documentResult;\n }\n // `getElementById` and `getElementsByName` won't pierce through the shadow DOM so we\n // have to traverse the DOM manually and do the lookup through the shadow roots.\n if (typeof document.createTreeWalker === 'function' && document.body &&\n ((document.body as any).createShadowRoot || document.body.attachShadow)) {\n const treeWalker = document.createTreeWalker(document.body, NodeFilter.SHOW_ELEMENT);\n let currentNode = treeWalker.currentNode as HTMLElement | null;\n while (currentNode) {\n const shadowRoot = currentNode.shadowRoot;\n if (shadowRoot) {\n // Note that `ShadowRoot` doesn't support `getElementsByName`\n // so we have to fall back to `querySelector`.\n const result = shadowRoot.getElementById(target) || shadowRoot.querySelector(`[name="${target}"]`);\n if (result) {\n return result;\n }\n }\n currentNode = treeWalker.nextNode() as HTMLElement | null;\n }\n return null;\n }\n}\n\n/**\n * Provides an empty implementation of the viewport scroller.\n */\nexport class NullViewportScroller implements ViewportScroller {\n /**\n * Empty implementation\n */\n setOffset(offset: [number, number])(): [number, number] {\n return [0, 0];\n }\n /**\n * Empty implementation\n */\n getScrollPosition(): [number, number] {\n return [0, 0];\n }\n /**\n * Empty implementation\n */\n scrollToPosition(position: [number, number]): void {\n return;\n }\n /**\n * Empty implementation\n */\n scrollToAnchor(anchor: string): void {\n return;\n }\n /**\n * Empty implementation\n */\n setHistoryScrollRestoration(scrollRestoration: 'auto'|'manual'): void {\n return;\n }\n}\n\n@license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n * A wrapper around the `XMLHttpRequest` constructor.\n * @publicApi\n */\nexport abstract class XhrFactory {\n abstract build(): XMLHttpRequest;\n}\n\n@license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n * @module\n * @description\n * Entry point for all public APIs of the common package.\n */\nexport * from './private_export';\nexport * from './location/index';\nexport {formatDate} from './i18n/format_date';\nexport {formatCurrency, formatNumber, formatPercent} from

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AE,EAAE,CAAC,CAAC;KAC3D;IAED,IAAa,IAAI;QACf,OAAO,IAAI,CAAC,QAAQ,CAAC,IAAI,CAAC;KAC3B;IACD,IAAa,QAAQ;QACnB,OAAO,IAAI,CAAC,QAAQ,CAAC,QAAQ,CAAC;KAC/B;IACD,IAAa,QAAQ;QACnB,OAAO,IAAI,CAAC,QAAQ,CAAC,QAAQ,CAAC;KAC/B;IACD,IAAa,IAAI;QACf,OAAO,IAAI,CAAC,QAAQ,CAAC,IAAI,CAAC;KAC3B;IACD,IAAa,QAAQ;QACnB,OAAO,IAAI,CAAC,QAAQ,CAAC,QAAQ,CAAC;KAC/B;IACD,IAAa,MAAM;QACjB,OAAO,IAAI,CAAC,QAAQ,CAAC,MAAM,CAAC;KAC7B;IACD,IAAa,IAAI;QACf,OAAO,IAAI,CAAC,QAAQ,CAAC,IAAI,CAAC;KAC3B;IACD,IAAa,QAAQ,CAAC,OAAe;QACnB,IAAI,CAAC,QAAQ,CAAC,QAAQ,GAAG,OAAO,CAAC;KACIC;IAEQ,SAAS,CAAC,KAAU,EAAE,KAAa,EAAE,GAAW;QACvD,IAAI,aAAa,EAAE,EAAE;YACnB,IAAI,CAAC,QAAQ,CAAC,SAAS,CAAC,KAAK,EAAE,KAAK,EAAE,GAAG,CAAC,CAAC;SAC5C;aAAM;YACL,IAAI,CAAC,QAAQ,CAAC,IAAI,GAAG,GAAG,CAAC;SAC1B;KACF;IAEQ,YAAY,CAAC,KAAU,EAAE,KAAa,EAAE,GAAW;QAC1D,IAAI,aAAa,EAAE,EAAE;YACnB,IAAI,CAAC,QAAQ,CAAC,YAAY,CAAC,KAAK,EAAE,KAAK,EAAE,GAAG,CAAC,CAAC;SAC/C;aAAM;YACL,IAAI,CAAC,QAAQ,CAAC,IAAI,GAAG,GAAG,CAAC;SAC1B;KACF;IAEQ,OAAO;QACd,IAAI,CAAC,QAAQ,CAAC,OAAO,EAAE,CAAC;KACzB;IAEQ,IAAI;QACX,IAAI,CAAC,QAAQ,CAAC,IAAI,EAAE,CAAC;KACtB;IAEQ,SAAS,CAAC,mBAA2B,CAAC;QAC7C,IAAI,CAAC,QAAQ,CAAC,EAAE,CAAC,gBAAGB,CAAC,CAAC;KACpC;IAEQ,QAAQ;QACf,OAAO,IAAI,CAAC,QAAQ,CAAC,KAAK,CAAC;KAC5B;;+HAvFU,uBAAuB,kBAId,QAAQ;mIAJb,uBAAuB,cAJtB,UAAU,cAEV,6BAA6B;sGAE9B,uBAAuB,kBALnB,UAAU;mBAAC;oBACV,UAAU,EAAE,UAAU;;oBAEtB,UAAU,EAAE,6BAA6B;iBAC1C;;0BAKc,MAAM;2BAAC,QAAQ;;SAsFd,aAAa;IAC3B,OAAO,CAAC,CAAC,MAAM,CAAC,OAAO,CAAC,SAAS,CAAC;AACpC,CAAC;SACe,6BAA6B;IAC3C,OAAO,IAAI,uBAAuB,CAAC,QAAQ,CAAC,QAAQ,CAAC,CAAC,CAAC;AACzD;;ACjNA;;;;;ACAA;;;;;;AASA;;;;;;SASgB,aAAa,CAAC,KAAa,EAAE,GAAW;IACtD,IAAI,KAAK,CAAC,MAAM,IAAI,CAAC,EAAE;QACrB,OAAO,GAAG,CAAC;KACZ;IACD,IAAI,GAAG,CAAC,MAAM,IAAI,CAAC,EAAE;QACnB,OAAO,KAAK,CAAC;KACd;IACD,IAAI,OAAO,GAAG,CAAC,CAAC;IACb,IAAI,KAAK,CAAC,QAAQ,CAAC,GAAG,CAAC,EAAE;QACvB,OAAO,EAAE,CAAC;KACX;IACD,IAAI,GAAG,CAAC,UAAU,CAAC,GAAG,CAAC,EAAE;QACvB,OAAO,EAAE,CAAC;KACX;IACD,IAAI,OAAO,IAAI,CAAC,EAAE;QACb,OAAO,KAAK,GAAG,GAAG,CAAC,SAAS,CAAC,CAAC,CAAC,CAAC;KACjC;IACD,IAAI,OAAO,IAAI,CAAC,EAAE;QACb,OAAO,KAAK,GAAG,GAAG,CAAC;KACpB;IACD,OAAO,KAAK,GAAG,GAAG,GAAG,GAAG,CAAC;AAC3B,CAAC;AAED;;;;;;SASgB,kBAaKB,CAAC,GAAW;IAC5C,MAAM,KAAK,GAAG,GAAG,CAAC,KAAK,CAAC,QAAQ,CAAC,CAAC;IACIC,MAAM,UAAU,GAAG,KAAK,IAAI,KAAK,CAAC,KAAK,IAAI,GAAG,CAAC,MAAM,CAAC;IACtD,MAAM,eAAe,GAAG,UAAU,IAAI,GAAG,CAAC,UAAU,GAAG,CAAC,CAAC,KAAK,GAAG,GAAG,CAAC,GAAG,CAAC,CAAC;IAC3E,OAAO,GAAG,CAAC,KAAK,CAAC,CAAC,EAAE,eAAe,CAAC,GAAG,GAAG,CAAC,KAAK,CAAC,UAAU,CAAC,CAAC;AAC/D,CAAC;AAED;;;;;SAOgB,oBAAoB,CAAC,MAAc;IACjD,OAAO,MAAM,IAAI,MAAM,CAAC,CAAC,CAAC,KAAK,GAAG,GAAG,GAAG,GAAG,MAAM,GAAG,MAAM,CAAC;AAC7D;;ACIEA;;;;;AAeA;;;;;;MAkBsB,gBAAGB;IAOpC,SAAS,CAAE,gBAAwB;QACjC,MAAM,IAAI,KAAK,CAAC,iBAAiB,CAAC,CAAC;KACpC;;wHATmB,gBAAGB;4HAAhB,gBAAGB,cADb,MAAM,cAAc,uBAAuB;sGAC9C,gBAAGB;kBADrC,UAAU;mBAAC,EAAC,UAAU,EAAE,MAAM,EAAE,UAAU,EAAE,uBAAuB,EAAC;;SAerD,uBAAuB,CAAC,gBAAkC;;IAExE,MAAM,QAAQ,GAAG,QAAQ,CAAC,QAAQ,CAAC,CAAC,QAAQ,CAAC;IAC7C,OAAO,IAAI,oBAAoB,CAC3B,QAAQ,CAAC,gBAAuB,CAAC,EAAE,QAAQ,IAAI,QAAQ,CAAC,MAAM,IAAI,EAAE,CAAC,CAAC;AAC5E,CAAC;AAGD;;MAuBa,aAAa,GAAG,IAAI,cAAc,CAAS,aAAa,EAAE;AAEvE;;;;;;MAGCa,oBAAqB,SAAQ,gBAAGB;IAIxD,YACY,iBAAmC,EACR,IAAa;QACID,KAAK,EAAE,CAAC;QAFE,sBAAiB,GAJb,iBAAiB,CAAkB;QAHvC,uBAaKB,GAAM,EAAE,CAAC;QAO9C,IAAI,IAAI,IAAI,IAAI,EAAE;YACb,IAAI,GAAG,IAAI,CAAC,iBAAiB,CAAC,kBAaKB,EAAE,CAAC;SACpD;QAED,IAAI,IAAI,IAAI,IAAI,EAAE;YACb,MAAM,IAAI,KAAK,CACX,6GAA6G,CAAC,CAAC;SACpH;QAED,IAAI,CAAC,SAAS,GAAG,IAAI,CAAC;KACvB;;IAGD,WAaw;QACT,OAAO,IAAI,CAAC,kBAaKB,CAAC,MAAM,EAAE;YACrC,IAAI,CAAC,kBAaKB,CAAC,GAAG,EAAG,EAAE,CAAC;SACIC;KACF;IAEQ,UAAU,CAAC,EAA0B;QAC5C,IAAI,CAAC,kBAaKB,CAAC,IAAI,CACxB,IAAI,CAAC,iBAAiB,CAAC,UAAU,CAAC,EAAE,CAAC,EAAE,IAAI,CAAC,iBAAiB,C AAC,YAAY,CAAC,EAAE,CAAC,CAAC,CAAC;KACrF;IAEQ,WAaw;QACIB,OAAO,IAAI,CAAC,SAAS,CAAC;KACvB;IAEQ,kBAaKB,CAAC,QAAgB;QAC1C,OAAO,aAAa,CAAC,IAAI,CAAC,SAAS,EAAE,QAAQ,CA

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No license file was found, but licenses were detected in source scan.

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PATH_MATCH = /^(^?#?*)(\?([^\#]*))?(#.*)?$/;
const DOUBLE_SLASH_REGEX = /^\\s*[\\W]{2,}/;
const IGNORE_URI_REGEXP = /^\\s*(javascript|mailto):/i;
const DEFAULT_PORTS: {[key: string]: number} = {
 'http:': 80,
 'https:': 443,
 'ftp:': 21
};

/**
 * Location service that provides a drop-in replacement for the
 * $location service
 * provided in AngularJS.
 *
 * @see [Using the Angular Unified Location
 * Service](guide/upgrade#using-the-unified-angular-location-service)
 *
 * @publicApi
 *
 * @export class
 * $locationShim {
 * private initializing = true;
 * private updateBrowser = false;
 * private $$absUrl: string = '';
 * private $$url: string = '';
 * private $$protocol: string;
 * private $$host: string = '';
 * private $$port: number|null;
 * private $$replace: boolean = false;
 * private $$path: string = '';
 * private $$search: any = '';
 * private $$hash:
 * string = '';
 * private $$state: unknown;
 * private $$changeListeners: [
 * (url: string, state: unknown, oldUrl:
 * string, oldState: unknown, err?: (e: Error) => void) => void,
 * (e: Error) => void
 *] = [];
 * private
 * cachedState: unknown = null;
 * private urlChanges = new ReplaySubject<{newUrl: string, newState:
 * unknown}>(1);
 * constructor(
 * $injector: any, private location: Location, private platformLocation:
 * PlatformLocation,
 * private urlCodec: UrlCodec, private locationStrategy: LocationStrategy) {
 * const
 * initialUrl = this.browserUrl();
 * let parsedUrl = this.urlCodec.parse(initialUrl);
 * if (typeof parsedUrl ===
 * 'string') {
 * throw 'Invalid URL';
 * }
 * this.$$protocol = parsedUrl.protocol;
 * this.$$host =
 * parsedUrl.hostname;
 * this.$$port = parseInt(parsedUrl.port) || DEFAULT_PORTS[parsedUrl.protocol]
 * || null;
 * this.$$parseLinkUrl(initialUrl, initialUrl);
 * this.cacheState();
 * this.$$state =
 * this.browserState();
 * this.location.onUrlChange((newUrl, newState) => {
 * this.urlChanges.next({newUrl,
 * newState});
 * });
 * if (isPromise($injector)) {
 * $injector.then($i => this.initialize($i));
 * } else {
 * this.initialize($injector);
 * }
 * private initialize($injector: any) {
 * const $rootScope =
 * $injector.get('$rootScope');
 * const $rootElement = $injector.get('$rootElement');
 * $rootElement.on('click',
 * (event: any) => {
 * if (event.ctrlKey || event.metaKey || event.shiftKey || event.which === 2 ||
 * event.button === 2) {
 * return;
 * }
 * let elm: (Node & ParentNode) | null = event.target;
 * // traverse
 * the DOM up to find first A tag
 * while (elm && elm.nodeName.toLowerCase() !== 'a') {
 * // ignore
 * rewriting if no A tag (reached root element, or no parent - removed
 * from document)
 * if (elm === $rootElement[0] || !(elm = elm.parentNode)) {
 * return;
 * }
 * if (!isAnchor(elm)) {
 * return;
 * }
 * const absHref = elm.href;
 * const relHref =
 * elm.getAttribute('href');
 * // Ignore when url is started with javascript: or mailto:
 * if
 * (IGNORE_URI_REGEXP.test(absHref)) {
 * return;
 * }
 * if (absHref && !elm.getAttribute('target')
 * && !event.isDefaultPrevented()) {
 * if (this.$$parseLinkUrl(absHref, relHref)) {
 * // We do a
 * preventDefault for all urls that are part of the AngularJS application,
 * // in html5mode and also without, so
 * that we are able to abort navigation without
 * // getting double entries in the location history.
 * event.preventDefault();
 * // update location manually
 * if (this.absUrl() !== this.browserUrl()) {
 * $rootScope.$apply();
 * }
 * this.urlChanges.subscribe(({newUrl, newState}) => {
 * const oldUrl = this.absUrl();
 * const oldState =
 * this.$$state;
 * this.$$parse(newUrl);
 * newUrl = this.absUrl();
 * this.$$state = newState;
 * const
 * defaultPrevented =
 * $rootScope.$broadcast('$locationChangeStart', newUrl, oldUrl, newState, oldState)
 * .defaultPrevented;
 * // if the location was changed by a '$locationChangeStart' handler then stop
 * //
 * processing this location change
 * if (this.absUrl() !== newUrl) return;
 * // If default was prevented, set back
 * to old state. This is the state that was locally
 * // cached in the $location service.
 * if (defaultPrevented) {
 * this.$$parse(oldUrl);
 * this.state(oldState);
 * this.setBrowserUrlWithFallback(oldUrl, false, oldState);
 * this.$$notifyChangeListeners(this.url(), this.$$state, oldUrl, oldState);
 * } else {
 * this.initializing = false;
 * $rootScope.$broadcast('$locationChangeSuccess',
 * newUrl, oldUrl, newState, oldState);
 * this.resetBrowserUpdate();
 * }
 * if (!$rootScope.$$phase) {
 * $rootScope.$digest();
 * }
 * });
 * // update browser
 * $rootScope.$watch(() => {
 * if (this.initializing ||
 * this.updateBrowser) {
 * this.updateBrowser = false;
 * const oldUrl = this.browserUrl();
 * const
 * newUrl = this.absUrl();
 * const oldState = this.browserState();
 * let currentReplace = this.$$replace;
 * const urlOrStateChanged =
 * !this.urlCodec.areEqual(oldUrl, newUrl) || oldState !== this.$$state;
 * //

```

```

Fire location changes one time to on initialization. This must be done on the // next tick (thus inside
$evalAsync()) in order for listeners to be registered // before the event fires. Mimicing behavior from
$locationWatch:\n // https://github.com/angular/angular.js/blob/master/src/ng/location.js#L983\n
 if (this.initalizing || urlOrStateChanged) {\n this.initalizing = false;\n\n $rootScope.$evalAsync() =>
{\n // Get the new URL again since it could have changed due to async update\n const newUrl =
this.absUrl();\n const defaultPrevented =\n $rootScope\n .broadcast('$locationChangeStart', newUrl, oldUrl, this.$$state, oldState)\n .defaultPrevented;\n\n // if the location was changed by a '$locationChangeStart' handler then stop\n // processing this location
change\n if (this.absUrl() !== newUrl) return;\n\n if (defaultPrevented) {\n
this.$$parse(oldUrl);\n this.$$state = oldState;\n } else {\n // This block doesn't run when
initializing because it's going to perform the update to\n // the URL which shouldn't be needed when
initializing.\n if (urlOrStateChanged) {\n
 this.setBrowserUrlWithFallback(\n newUrl, currentReplace, oldState === this.$$state ? null :
this.$$state);\n this.$$replace = false;\n }\n $rootScope.$broadcast(\n
'$locationChangeSuccess', newUrl, oldUrl, this.$$state, oldState);\n if (urlOrStateChanged) {\n
this.$$notifyChangeListeners(this.url(), this.$$state, oldUrl, oldState);\n }\n }\n });\n }\n
}\n this.$$replace = false;\n });\n }\n\n private resetBrowserUpdate() {\n this.$$replace = false;\n
this.$$state = this.browserState();\n this.updateBrowser = false;\n this.lastBrowserUrl = this.browserUrl();\n
}\n\n private lastHistoryState: unknown;\n private lastBrowserUrl: string = '';\n private browserUrl(): string;\n
private browserUrl(url: string, replace?: boolean, state?: unknown): this;\n private browserUrl(url?: string, replace?:
boolean,
state?: unknown) {\n // In modern browsers `history.state` is `null` by default; treating it separately\n // from
`undefined` would cause `$browser.url('/foo')` to change `history.state`\n // to undefined via `pushState`. Instead,
let's change `undefined` to `null` here.\n if (typeof state === 'undefined') {\n state = null;\n }\n\n // setter\n
if (url) {\n let sameState = this.lastHistoryState === state;\n\n // Normalize the inputted URL\n url =
this.urlCodec.parse(url).href;\n\n // Don't change anything if previous and current URLs and states match.\n if
(this.lastBrowserUrl === url && sameState) {\n return this;\n }\n this.lastBrowserUrl = url;\n
this.lastHistoryState = state;\n\n // Remove server base from URL as the Angular APIs for updating URL
require\n // it to be the path+.\n url = this.stripBaseUrl(this.getServerBase(), url) || url;\n\n // Set the URL\n
if (replace) {\n
 this.locationStrategy.replaceState(state, '', url);\n } else {\n this.locationStrategy.pushState(state, '', url,
'');\n }\n this.cacheState();\n\n return this;\n } // getter\n } else {\n return
this.platformLocation.href;\n }\n }\n\n // This variable should be used *only* inside the cacheState function.\n
private lastCachedState: unknown = null;\n private cacheState() {\n // This should be the only place in $browser
where `history.state` is read.\n this.cachedState = this.platformLocation.getState();\n if (typeof this.cachedState
=== 'undefined') {\n this.cachedState = null;\n }\n\n // Prevent callbacks fo fire twice if both hashchange &
popstate were fired.\n if (deepEqual(this.cachedState, this.lastCachedState)) {\n this.cachedState =
this.lastCachedState;\n }\n\n this.lastCachedState = this.cachedState;\n this.lastHistoryState =
this.cachedState;\n }\n\n /**\n * This function emulates the $browser.state()
function from AngularJS. It will cause\n * history.state to be cached unless changed with deep equality check.\n
*/\n private browserState(): unknown {\n return this.cachedState;\n }\n\n private stripBaseUrl(base: string, url:
string) {\n if (url.startsWith(base)) {\n return url.substr(base.length);\n }\n return undefined;\n }\n\n
private getServerBase() {\n const {protocol, hostname, port} = this.platformLocation;\n const baseHref =
this.locationStrategy.getBaseHref();\n let url = `${protocol}://${hostname}${port ? ':' + port : ''}${baseHref} ||
'/';\n return url.endsWith('/') ? url : url + '/';\n }\n\n private parseAppUrl(url: string) {\n if
(DOUBLE_SLASH_REGEX.test(url)) {\n throw new Error(`Bad Path - URL cannot start with double slashes:
${url}`);\n }\n\n let prefixed = (url.charAt(0) !== '/');\n if (prefixed) {\n url = '/' + url;\n }\n let match =
this.urlCodec.parse(url, this.getServerBase());\n

```



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 if (typeof match === 'string') {\n throw new Error(`Bad URL - Cannot parse URL: ${url}`);\n }\n let path\n =\n prefixed && match.pathname.charAt(0) === '/' ? match.pathname.substring(1) : match.pathname;\n this.$$path = this.urlCodec.decodePath(path);\n this.$$search = this.urlCodec.decodeSearch(match.search);\n this.$$hash = this.urlCodec.decodeHash(match.hash);\n\n // make sure path starts with '/'\n if (this.$$path &&\n this.$$path.charAt(0) !== '/') {\n this.$$path = '/' + this.$$path;\n }\n\n /**\n * Registers listeners for\n URL changes. This API is used to catch updates performed by the\n * AngularJS framework. These changes are a\n subset of the `locationChangeStart` and\n * `locationChangeSuccess` events which fire when AngularJS updates\n its internally-referenced\n * version of the browser URL.\n *\n * It's possible for `locationChange` events to\n happen, but for the browser URL\n * (window.location) to remain unchanged.\n\n This `onChange` callback will fire only when AngularJS\n * actually updates the browser URL\n (window.location).\n *\n * @param fn The callback function that is triggered for the listener when the URL\n changes.\n * @param err The callback function that is triggered when an error occurs.\n */\n onChange(\n fn:\n (url: string, state: unknown, oldUrl: string, oldState: unknown) => void,\n err: (e: Error) => void = (e: Error) =>\n {})\n {\n this.$$changeListeners.push([fn, err]);\n\n /** @internal */\n $notifyChangeListeners(\n url:\n string = "", state: unknown, oldUrl: string = "", oldState: unknown)\n {\n this.$$changeListeners.forEach([(fn, err)] =>\n {\n try {\n fn(url, state, oldUrl, oldState);\n } catch (e) {\n err(e as Error);\n }\n });\n }\n\n /**\n * Parses the provided URL, and sets the current URL to the parsed result.\n *\n * @param url The URL\n string.\n */\n $parse(url: string)\n {\n let pathUrl: string|undefined;\n\n if (url.startsWith('/')) {\n pathUrl = url;\n } else {\n // Remove protocol & hostname if URL starts with\n it\n pathUrl = this.stripBaseUrl(this.getServerBase(), url);\n }\n if (typeof pathUrl === 'undefined') {\n throw new Error(`Invalid url "${url}", missing path prefix "${this.getServerBase()}".`);\n }\n this.parseAppUrl(pathUrl);\n\n if (!this.$$path) {\n this.$$path = '/';\n }\n this.composeUrls();\n }\n\n /**\n * Parses the provided URL and its relative URL.\n *\n * @param url The full URL string.\n * @param\n relHref A URL string relative to the full URL string.\n */\n $parseLinkUrl(url: string, relHref?: string|null):\n boolean\n {\n // When relHref is passed, it should be a hash and is handled separately\n if (relHref && relHref[0]\n === '#') {\n this.hash(relHref.slice(1));\n return true;\n }\n let rewrittenUrl;\n let appUrl =\n this.stripBaseUrl(this.getServerBase(), url);\n\n if (typeof appUrl !== 'undefined') {\n rewrittenUrl = this.getServerBase() + appUrl;\n } else if\n (this.getServerBase() === url + '/') {\n rewrittenUrl = this.getServerBase();\n }\n // Set the URL\n if\n (rewrittenUrl) {\n this.$$parse(rewrittenUrl);\n }\n return !!rewrittenUrl;\n }\n\n private\n setBrowserUrlWithFallback(url: string, replace: boolean, state: unknown)\n {\n const oldUrl = this.url();\n const\n oldState = this.$$state;\n try {\n this.browserUrl(url, replace, state);\n\n // Make sure $location.state()\n returns referentially identical (not just deeply equal)\n // state object; this makes possible quick checking if the\n state changed in the digest\n // loop. Checking deep equality would be too expensive.\n this.$$state =\n this.browserState();\n } catch (e) {\n // Restore old values if pushState fails\n this.url(oldUrl);\n this.$$state = oldState;\n throw e;\n }\n }\n\n private composeUrls()\n {\n this.$$url = this.urlCodec.normalize(this.$$path, this.$$search, this.$$hash);\n this.$$absUrl =\n this.getServerBase() + this.$$url.substr(1); // remove '/' from front of URL\n this.updateBrowser = true;\n }\n\n /**\n * Retrieves the full URL representation with all segments encoded according to\n * rules specified in\n * [RFC 3986](https://tools.ietf.org/html/rfc3986).\n *\n * ```\n * // given URL\n http://example.com/#/some/path?foo=bar&baz=xoxo\n * let absUrl = $location.absUrl();\n * // =>\n \"http://example.com/#/some/path?foo=bar&baz=xoxo\"\n * ```\n */\n absUrl(): string\n {\n return\n this.$$absUrl;\n }\n\n /**\n * Retrieves the current URL, or sets a new URL. When setting a URL,\n * changes\n the path, search, and hash, and returns a reference to its own instance.\n *\n * ```\n * // given URL\n http://example.com/#/some/path?foo=bar&baz=xoxo\n * let url = $location.url();\n * // =>\n \"/some/path?foo=bar&baz=xoxo\"\n * ```\n\n */\n url(): string;\n url(url: string): this;\n url(url?: string): string|\n this\n {\n if (typeof url === 'string') {\n if\n (!url.length) {\n url = '/';\n }\n const match = PATH_MATCH.exec(url);\n if (!match) return this;\n
```

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if (match[1] || url === "") this.path(this.urlCodec.decodePath(match[1]));\n if (match[2] || match[1] || url === "")
this.search(match[3] || "");\n this.hash(match[5] || "");\n\n // Chainable method\n return this;\n }\n\n return
this.$$url;\n }\n\n /**\n * Retrieves the protocol of the current URL.\n * \n * ``js\n * // given URL
http://example.com/#/some/path?foo=bar&baz=xoxo\n * let protocol = $location.protocol();\n * // => "http"\n * ``\n * \n protocol(): string {\n return this.$$protocol;\n }\n\n /**\n * Retrieves the protocol of the current
URL.\n * \n * In contrast to the non-AngularJS version `location.host` which returns `hostname:port`, this\n *
returns the
`hostname` portion only.\n * \n * ``js\n * // given URL
http://example.com/#/some/path?foo=bar&baz=xoxo\n * let host = $location.host();\n * // => "example.com"\n * \n * // given URL http://user:password@example.com:8080/#/some/path?foo=bar&baz=xoxo\n * host =
$location.host();\n * // => "example.com"\n * \n * host = location.host;\n * // => "example.com:8080"\n * ``\n   * \n   host(): string {\n    return this.$$host;\n  }\n\n  /**\n   * Retrieves the port of the current URL.\n   * \n   * ``js\n * // given URL http://example.com/#/some/path?foo=bar&baz=xoxo\n * let port = $location.port();\n * // => 80\n * ``\n * \n port(): number|null {\n return this.$$port;\n }\n\n /**\n * Retrieves the path of the current URL, or
changes the path and returns a reference to its own\n * instance.\n * \n * Paths should always begin with forward
slash (/). This method adds the forward slash\n * if it is missing.\n * \n * ``js\n * // given URL
http://example.com/#/some/path?foo=bar&baz=xoxo\n * let path = $location.path();\n * // => "/some/path"\n *
``\n * \n path(): string;\n path(path: string|number|null): this;\n path(path?: string|number|null): string|this {\n if
(typeof path === 'undefined') {\n return this.$$path;\n }\n\n // null path converts to empty string. Prepend
with '/' if needed.\n path = path !== null ? path.toString() : '';\n path = path.charAt(0) === '/' ? path : '/' +
path;\n\n this.$$path = path;\n this.composeUrls();\n return this;\n }\n\n /**\n * Retrieves a map of the
search parameters of the current URL, or changes a search\n * part and returns a reference to its own instance.\n * \n * ``js\n * // given URL http://example.com/#/some/path?foo=bar&baz=xoxo\n * let searchObject =
$location.search();\n * // => {foo: 'bar', baz: 'xoxo'}\n * \n * // set foo to 'yipee'\n * $location.search('foo',
'yipee');\n * // $location.search()
=> {foo: 'yipee', baz: 'xoxo'}\n * ``\n * \n * @param {string|Object.<string>|Object.<Array.<string>>}} search
New search params - string or\n * hash object.\n * \n * When called with a single argument the method acts as a
setter, setting the `search` component\n * of `location` to the specified value.\n * \n * If the argument is a hash
object containing an array of values, these values will be encoded\n * as duplicate search parameters in the URL.\n * \n * @param {(string|Number|Array<string>|boolean)=} paramValue If `search` is a string or number,\n *
then `paramValue`\n * will override only a single search property.\n * \n * If `paramValue` is an array, it will
override the property of the `search` component of\n * `location` specified via the first argument.\n * \n * If
`paramValue` is `null`, the property specified via the first argument will be deleted.\n * \n * If `paramValue` is
`true`, the property specified via the first argument will
be added with no\n * value nor trailing equal sign.\n * \n * @return {Object} The parsed `search` object of the
current URL, or the changed `search` object.\n * \n search(): {[key: string]: unknown};\n search(search:
string|number|{[key: string]: unknown}): this;\n search(\n search: string|number|{[key: string]: unknown},\n
paramValue: null|undefined|string|number|boolean|string[]): this;\n search(\n search?: string|number|{[key:
string]: unknown},\n paramValue?: null|undefined|string|number|boolean|string[]): {[key: string]: unknown}|this
{\n switch (arguments.length) {\n case 0:\n return this.$$search;\n case 1:\n if (typeof search ===
'string' || typeof search === 'number') {\n this.$$search = this.urlCodec.decodeSearch(search.toString());\n
 } else if (typeof search === 'object' && search !== null) {\n // Copy the object so it's never mutated\n
search = {...search};\n // remove object
undefined or null properties\n for (const key in search) {\n if (search[key] == null) delete
search[key];\n }\n this.$$search = search;\n } else {\n throw new Error(\n
'LocationProvider.search(): First argument must be a string or an object.');

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this.search(currentSearch);\n } else {\n currentSearch[search] = paramValue;\n return\n }\n }\n this.composeUrls();\n return this;\n }\n\n /**\n * Retrieves the current hash fragment, or changes the hash fragment and returns a reference to\n * its own instance.\n *\n * ``js\n * // given URL http://example.com/#/some/path?foo=bar&baz=xoxo#hashValue\n *\n * let hash = $location.hash();\n * // => \"hashValue\"\n *\n * /\n * hash(): string;\n * hash(hash:\n * string|number|null): this;\n * hash(hash?: string|number|null): string|this {\n * if (typeof hash === 'undefined') {\n * return this.$$hash;\n * }\n * this.$$hash = hash !== null ? hash.toString() : '';\n * this.composeUrls();\n * return this;\n * }\n *\n * Changes to `location` during the current `digest` will replace the current\n * history record, instead of adding a new one.\n *\n * replace(): this {\n * this.$$replace = true;\n * return this;\n * }\n *\n * Retrieves the history state object when called without any parameter.\n *\n * Change the history state object when called with one parameter and return `location`.\n *\n * The state object is later passed to `pushState` or `replaceState`.\n *\n * This method is supported only in HTML5 mode and only in browsers supporting\n * the HTML5 History API methods such as `pushState` and `replaceState`. If you need to support\n * older browsers (like Android < 4.0), don't use this method.\n *\n * /\n * state(): unknown;\n * state(state: unknown): this;\n * state(state?: unknown): unknown|this {\n * if (typeof state === 'undefined') {\n * return this.$$state;\n * }\n * this.$$state = state;\n * return this;\n * }\n *\n * The factory function used to create an instance of the `LocationShim` in Angular,\n * and provides an API-compatible `LocationProvider` for AngularJS.\n *\n * @publicApi\n */\n export class LocationShimProvider {\n constructor(\n private ngUpgrade: UpgradeModule, private location: Location,\n private platformLocation: PlatformLocation, private urlCodec: UrlCodec,\n private locationStrategy: LocationStrategy) {\n }\n\n /**\n * Factory method that returns an instance of the LocationShim\n *\n * $get() {\n * return new LocationShim(\n * this.ngUpgrade.$injector, this.location,\n * this.platformLocation, this.urlCodec,\n * this.locationStrategy);\n * }\n *\n * Stub method used to keep API compatible with AngularJS. This setting is configured through\n * the LocationUpgradeModule's `config` method in your Angular app.\n *\n * hashPrefix(prefix?: string) {\n * throw new Error('Configure LocationUpgrade through LocationUpgradeModule.config method.);\n * }\n *\n * Stub method used to keep API compatible with AngularJS. This setting is configured through\n * the LocationUpgradeModule's `config` method in your Angular app.\n *\n * html5Mode(mode?: any) {\n * throw new Error('Configure LocationUpgrade through LocationUpgradeModule.config method.);\n * }\n *"/>\n /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n /**\n * A codec for encoding and decoding URL parts.\n *\n * @publicApi\n */\n /**\n * @nexport abstract class UrlCodec {\n * /\n * Encodes the path from the provided string\n *\n * @param path The path string\n *\n * abstract encodePath(path: string): string;\n *\n * Decodes the path from the provided string\n *\n * @param path The path string\n *\n * abstract decodePath(path: string): string;\n *\n * Encodes the search string from the provided string or object\n *\n * @param path The path string or object\n *\n * abstract encodeSearch(search: string|{[k: string]: unknown}): string;\n *\n * Decodes the search objects from the provided string\n *\n * @param path The path string\n *\n * abstract decodeSearch(search: string): {[k: string]: unknown};\n *\n * Encodes the hash from the provided string\n *\n * @param path The hash string\n *\n * abstract encodeHash(hash: string): string;\n *\n * Decodes the hash from the provided string\n *\n * @param path The hash string\n *\n * abstract decodeHash(hash: string): string;\n *\n * Normalizes the URL from the provided string\n *\n * @param path The URL string\n *\n * abstract normalize(href: string): string;\n *\n * Normalizes the URL from the provided string, search, hash, and base URL parameters\n *\n * @param path The URL path\n * @param search The search object\n * @param hash The has string\n * @param baseUrl The base URL for the URL\n *\n * abstract normalize(path: string, search: {[k: string]: unknown}, hash: string, baseUrl?: string): string;\n *\n * Checks whether the two strings are equal\n *\n * @param valA First string for comparison\n * @param valB Second string for comparison\n *\n * abstract areEqual(valA: string, valB: string): boolean;\n */

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string based on the base URL\n * \n * @param url The full URL string\n * @param base The base for the URL\n
*/\n abstract parse(url: string, base?: string): {\n href: string,\n protocol: string,\n host: string,\n search: string,\n hash: string,\n hostname: string,\n port: string,\n pathname: string\n};\n}\n\n/**\n * A `UrlCodec` that uses logic from AngularJS to serialize and parse URLs\n * and URL parameters.\n */\n * @publicApi\n */\nexport class AngularJSUrlCodec implements UrlCodec {\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L15\n encodePath(path: string): string {\n
const segments = path.split('/');\n let i = segments.length;\n\n while (i--) {\n // decode forward slashes to
prevent them from being double encoded\n segments[i] = encodeURIComponent(segments[i].replace(/%2F/g, '/'));\n
}\n\n path = segments.join('/');\n return _stripIndexHtml((path && path[0] !== '/' && '/' || '') + path);\n }\n\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L42\n encodeSearch(search: string|{\n
[k: string]: unknown}): string {\n if (typeof search === 'string') {\n search =
parseKeyValue(search);\n }\n\n search = toKeyValue(search);\n return search ? '?' + search : '';\n }\n\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L44\n encodeHash(hash: string) {\n hash =
encodeURIComponent(hash);\n return hash ? '#' + hash : '';\n }\n\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L27\n decodePath(path: string, html5Mode =
true): string {\n const segments = path.split('/');\n let i = segments.length;\n\n while (i--) {\n segments[i] =
decodeURIComponent(segments[i]);\n if (html5Mode) {\n // encode forward slashes to prevent them from
being mistaken for path separators\n segments[i] = segments[i].replace(/\\/g, '%2F');\n }\n }\n\n return
segments.join('/');\n }\n\n // https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L72\n
decodeSearch(search: string) {\n return parseKeyValue(search);\n }\n\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L73\n
decodeHash(hash: string) {\n hash = decodeURIComponent(hash);\n return hash[0] === '#' ? hash.substring(1)
: hash;\n }\n\n // https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L149\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/location.js#L42\n normalize(href: string): string;\n
normalize(path: string, search: {\n [k: string]: unknown\n}, hash: string, baseUrl?: string): string;\n
normalize(pathOrHref: string, search?: {\n [k: string]: unknown\n}, hash?: string, baseUrl?: string):\n string {\n if
(arguments.length === 1) {\n const parsed = this.parse(pathOrHref, baseUrl);\n if (typeof parsed ===
'string') {\n return parsed;\n }\n\n const serverUrl =\n
`${parsed.protocol}://${parsed.hostname}${parsed.port ? ':' + parsed.port : ''}`;\n\n return this.normalize(\n
this.decodePath(parsed.pathname), this.decodeSearch(parsed.search),\n
this.decodeHash(parsed.hash), serverUrl);\n } else {\n const encPath = this.encodePath(pathOrHref);\n
const encSearch = search && this.encodeSearch(search) || '';\n const encHash = hash && this.encodeHash(hash)
|| '';\n\n let joinedPath = (baseUrl || '') + encPath;\n\n if (!joinedPath.length || joinedPath[0] !== '/') {\n
joinedPath = '/' + joinedPath;\n }\n\n return joinedPath + encSearch + encHash;\n }\n }\n\n areEqual(valA:
string, valB: string) {\n return this.normalize(valA) === this.normalize(valB);\n }\n\n //
https://github.com/angular/angular.js/blob/864c7f0/src/ng/urlUtils.js#L60\n parse(url: string, base?: string) {\n try
{\n // Safari 12 throws an error when the URL constructor is called with an undefined base.\n const parsed =
!base ? new URL(url) : new URL(url, base);\n return {\n href: parsed.href,\n protocol: parsed.protocol ?
parsed.protocol.replace(/:$/, '') : '',\n host: parsed.host,\n
search: parsed.search ? parsed.search.replace(/^\\?/, '') : '',\n hash: parsed.hash ? parsed.hash.replace(/^\\#/, '')
: '',\n hostname: parsed.hostname,\n port: parsed.port,\n pathname: (parsed.pathname.charAt(0) === '/')
? parsed.pathname : '/' + parsed.pathname\n };\n } catch (e) {\n throw new Error(`Invalid URL (${url}) with
base (${base})`);\n }\n }\n\n\nfunction _stripIndexHtml(url: string): string {\n return
url.replace(/\\/index.html$/, '');\n}\n\n\n/**\n * Tries to decode the URI component without throwing an exception.\n
*\n * @param str value potential URI component to check.\n * @returns the decoded URI if it can be decoded or
else `undefined`.\n */\nfunction tryDecodeURIComponent(value: string): string|undefined {\n try {\n return
decodeURIComponent(value);\n } catch (e) {\n // Ignore any invalid uri component.\n return undefined;\n }\n }\n\n\n\n/**\n * Parses an escaped url query string into key-value pairs.

```



```

* A provider token used to configure the location upgrade module.\n *\n * @publicApi\n */\nexport const
LOCATION_UPGRADE_CONFIGURATION =\n new
InjectionToken<LocationUpgradeConfig>('LOCATION_UPGRADE_CONFIGURATION');\n\nconst
APP_BASE_HREF_RESOLVED = new InjectionToken<string>('APP_BASE_HREF_RESOLVED');\n\n/**\n *
`NgModule` used for providing and configuring Angular's Unified Location Service for upgrading.\n *\n * @see
[Using the Unified Angular Location Service](guide/upgrade#using-the-unified-angular-location-service)\n *\n *
@publicApi\n */\n@NgModule({ imports: [CommonModule] })\nexport class LocationUpgradeModule {\n static
config(config?: LocationUpgradeConfig): ModuleWithProviders<LocationUpgradeModule> {\n return {\n
ngModule: LocationUpgradeModule,\n providers: [\n Location,\n {\n provide: $locationShim,\n
useFactory: provide$location,\n deps: [UpgradeModule, Location, PlatformLocation, UrlCodec,\n
LocationStrategy]\n },\n {\n provide: LOCATION_UPGRADE_CONFIGURATION, useValue: config ? config : {},\n
{provide: UrlCodec, useFactory: provideUrlCodec, deps: [LOCATION_UPGRADE_CONFIGURATION]},\n
{\n provide: APP_BASE_HREF_RESOLVED,\n useFactory: provideAppBaseHref,\n deps:
[LOCATION_UPGRADE_CONFIGURATION, [new Inject(APP_BASE_HREF), new Optional()]]\n },\n
{\n provide: LocationStrategy,\n useFactory: provideLocationStrategy,\n deps: [\n
PlatformLocation,\n APP_BASE_HREF_RESOLVED,\n
LOCATION_UPGRADE_CONFIGURATION,\n]\n },\n],\n },\n];\n}\n}\n\nexport function
provideAppBaseHref(config: LocationUpgradeConfig, appBaseHref?: string) {\n if (config &&
config.appBaseHref != null) {\n return config.appBaseHref;\n } else if (appBaseHref != null) {\n return
appBaseHref;\n }\n return ";\n}\n\nexport function provideUrlCodec(config: LocationUpgradeConfig)
{\n const codec = config && config.urlCodec || AngularJSUrlCodec;\n return new (codec as any)();\n}\n\nexport
function provideLocationStrategy(\n platformLocation: PlatformLocation, baseHref: string, options:
LocationUpgradeConfig = {}) {\n return options.useHash ? new HashLocationStrategy(platformLocation,
baseHref) :\n new PathLocationStrategy(platformLocation, baseHref);\n}\n\nexport function
provide$location(\n ngUpgrade: UpgradeModule, location: Location, platformLocation: PlatformLocation,\n
urlCodec: UrlCodec, locationStrategy: LocationStrategy) {\n const $locationProvider =\n new
$locationShimProvider(ngUpgrade, location, platformLocation, urlCodec, locationStrategy);\n\n return
$locationProvider.$get();\n}\n\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\nexport
{$locationShim, $locationShimProvider} from './location_shim';\n\nexport
{LOCATION_UPGRADE_CONFIGURATION, LocationUpgradeConfig, LocationUpgradeModule} from
'./location_upgrade_module';\n\nexport {AngularJSUrlCodec, UrlCodec} from './params';\n\n", "/*\n * @license\n *
Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license
that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n/*\n * @module\n * @description\n
* Entry point for all public APIs of this package.\n */\nexport * from './src/index';\n\n// This file only reexports
content of the `src` folder. Keep it that way.\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\n// This file is not used to build this module. It is only used during editing\n// by the
TypeScript language service and during
build for verification. `ngc` replaces this file with production index.ts when it rewrites private symbol\n//
names.\n\nexport * from './public_api';\n\n", "/*\n * Generated bundle index. Do not edit.\n */\n\nexport * from
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Found
in path(s):
*
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## 1.737 angular-compiler-cli 13.2.7

### 1.737.1 Available under license :

MIT

## 1.738 angular-router 13.2.7

### 1.738.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
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 * found in the LICENSE file at https://angular.io/license
 */
```

Found in path(s):

```
* /router-13-2-7-tgz/package/esm2020/src/router_config_loader.mjs
* /router-13-2-7-tgz/package/esm2020/src/utils/preactivation.mjs
* /router-13-2-7-tgz/package/esm2020/src/recognize.mjs
* /router-13-2-7-tgz/package/esm2020/upgrade/index.mjs
* /router-13-2-7-tgz/package/esm2020/src/private_export.mjs
* /router-13-2-7-tgz/package/esm2020/testing/index.mjs
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* /router-13-2-7-tgz/package/esm2020/testing/public_api.mjs
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* /router-13-2-7-tgz/package/esm2020/testing/src/extra_router_testing_providers.mjs
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* /router-13-2-7-tgz/package/esm2020/src/utils/tree.mjs
* /router-13-2-7-tgz/package/esm2020/src/router_outlet_context.mjs
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No license file was found, but licenses were detected in source scan.

```

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"../../../../../packages/router/testing/src/router_testing_module.ts","../../../../../packages/router/testing/src/spy_ng
_module_factory_loader.ts","../../../../../packages/router/testing/src/testing.ts","../../../../../packages/router/testing/
public_api.ts","../../../../../packages/router/testing/index.ts","../../../../../packages/router/testing/testing.ts"],"source
sContent":["/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\n//
This file exists to easily patch the SpyNgModuleFactoryLoader into g3\nexport const

```

```

EXTRA_ROUTER_TESTING_PROVIDERS = [];

/**
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 https://angular.io/license

import {Location, LocationStrategy} from '@angular/common';
import {MockLocationStrategy, SpyLocation} from '@angular/common/testing';
import {Compiler, Injector, ModuleWithProviders, NgModule, Optional} from '@angular/core';
import {ChildrenOutletContexts, ExtraOptions, NoPreloading, PreloadingStrategy, provideRoutes, Route, Router, ROUTER_CONFIGURATION, RouteReuseStrategy, RouterModule, ROUTES, Routes, UrlHandlingStrategy, UrlSerializer, assignExtraOptionsToRouter as assignExtraOptionsToRouter, flatten as flatten, ROUTER_PROVIDERS as ROUTER_PROVIDERS} from '@angular/router';
import {EXTRA_ROUTER_TESTING_PROVIDERS} from './extra_router_testing_providers';

function isUrlHandlingStrategy(opts: ExtraOptions | UrlHandlingStrategy): opts is UrlHandlingStrategy {
 // This property check is needed because UrlHandlingStrategy is an interface and doesn't exist at runtime.
 return 'shouldProcessUrl' in opts;
}

/**
 * Router setup factory function used for testing.
 */
@publicApi
export function setupTestingRouter(
 urlSerializer: UrlSerializer,
 contexts: ChildrenOutletContexts,
 location: Location,
 compiler: Compiler,
 injector: Injector,
 routes: Route[],
 opts?: ExtraOptions | UrlHandlingStrategy,
 urlHandlingStrategy?: UrlHandlingStrategy,
 routeReuseStrategy?: RouteReuseStrategy
) {
 const router = new Router(null!, urlSerializer, contexts, location, injector, compiler, flatten(routes));
 if (opts) {
 // Handle deprecated argument ordering.
 if (isUrlHandlingStrategy(opts)) {
 router.urlHandlingStrategy = opts;
 } else {
 // Handle ExtraOptions
 assignExtraOptionsToRouter(opts, router);
 }
 }
 if (urlHandlingStrategy) {
 router.urlHandlingStrategy = urlHandlingStrategy;
 }
 if (routeReuseStrategy) {
 router.routeReuseStrategy = routeReuseStrategy;
 }
 return router;
}

/**
 * @description
 * Sets up the router to be used for testing.
 * The modules sets up the router to be used for testing.
 * It provides spy implementations of `Location` and `LocationStrategy`.
 */
@usageNotes
`### Example`
beforeEach(() => {
 TestBed.configureTestingModule({
 imports: [
 RouterTestingModule.withRoutes([
 {path: '', component: BlankCmp},
 {path: 'simple', component: SimpleCmp}
])
]);
});

@publicApi
@NgModule({
 exports: [RouterModule],
 providers: [ROUTER_PROVIDERS, EXTRA_ROUTER_TESTING_PROVIDERS,
 {provide: Location, useClass: SpyLocation},
 {provide: LocationStrategy, useClass: MockLocationStrategy},
 {provide: Router, useFactory: setupTestingRouter, deps: [UrlSerializer, ChildrenOutletContexts, Location, Compiler, Injector, ROUTES, ROUTER_CONFIGURATION, UrlHandlingStrategy, new Optional(), new Optional(), new Optional(), {provide: PreloadingStrategy, useExisting: NoPreloading}],
 provideRoutes([], [])
]
})
export class RouterTestingModule {
 static withRoutes(routes: Routes, config?: ExtraOptions): ModuleWithProviders<RouterTestingModule> {
 return {
 ngModule: RouterTestingModule,
 providers: [
 provideRoutes(routes),
 ROUTER_CONFIGURATION,
 {provide: config ? config : {},
]
 };
 }
}

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// This file exists for easily patching SpyNgModuleFactoryLoader in g3
export default {};

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 * @module
 * @description
 * Entry point for all public APIs of the router/testing package.
 */
export * from './router_testing_module';
export * from './spy_ng_module_factory_loader';

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 * @module
 * @description
 * Entry point for all public APIs of this

```

package.\n \*/\nexport \* from './src/testing';\n\n// This file only reexports content of the `src` folder. Keep it that way.\n", "/\*\n \* @license\n \* Copyright Google LLC All Rights Reserved.\n \* Use of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \*/\n\n// This file is not used to build this module.

It is only used during editing\n// by the TypeScript language service and during build for verification. `ngc`\n// replaces this file with production index.ts when it rewrites private symbol\n// names.\n \*/\nexport \* from

'./public\_api';\n", "/\*\n \* Generated bundle index. Do not edit.\n \*/\nexport \* from

'./index';\n"], "names": ["flatten", "assignExtraOptionsToRouter", "ROUTER\_PROVIDERS"], "mappings": ";;;;;;;;;A  
AAA;;;;;;;;;AAQA;AACO,MAAM,8BAA8B,GAAG,EAAE;;ACThD;;;;;;;;;AAcA,SAAS,qBAAqB,CAAC,IACmB;;I  
AGhD,OAAO,kBAAkB,IAAI,IAAI,CAAC;AACpC,CAAC;AAED;;;;;;;;;SAKgB,kBAAkB,CAC9B,aAA4B,EAAE,Q  
AAGC,EAAE,QAAkB,EACIF,QAAkB,EAAE,QAAkB,EAAE,MAAiB,EACzD,IAAuC,EAAE,mBAAyC,EACIF,k  
BAAuC;IACzC,MAAM,MAAM,GACR,IAAI,MAAM,CAAC,IAAK,EAAE,aAAa,EAAE,QAAQ,EAAE,QAAQ,E  
AAE,QAAQ,EAAE,QAAQ,EAAEA,QAAO,CAAC,MAAM,CAAC,CAAC,CAAC;IAC9F,IAAI,IAAI,EAAE;;QA  
ER,IAAI,qBAAqB,CAAC,IAAI,CAAC,EAAE;YAC/B,MAAM,CAAC,mBAAmB,GAAG,IAAI,CAAC;SACnC;aA  
AM;;YAE LC,2BAA0B,CAAC,IAAI,EAAE,MAAM,CAAC,CAAC;SAC1C;KACF;IAED,IAAI,mBAAmB,EAAE;  
QACvB,MAAM,CAAC,mBAAmB,GAAG,mBAAmB,CAAC;KACID;IAED,IAAI,kBAAkB,EAAE;QACtB,MAA  
M,CAAC,kBAAkB,GAAG,kBAAkB,CAAC;KACHD;IAED,OAAO,MAAM,CAAC;AACHB,CAAC;AAED;;;;;;;;;  
;;;;;;;;;MA6Ca,mBAAmB;IAC9B,OAAO,UAAU,CAAC,MAAc,EAAE,MAAqB;QAErD,OAAO;YACL,QAAQ,  
EAAE,mBAAmB;YAC7B,SAAS,EAAE;gBACT,aAAa,CAAC,MAAM,CAAC;gBACrB,EAAC,OAAO,EAAE,oB  
AAoB,EAAE,QAAQ,EAAE,MAAM,GAAG,MAAM,GAAG,EAAE,EAAC;aACHe;SACF,CAAC;KACH;;2HAVU  
,mBAAmB;4HAA nB,mBAAmB,YAnBpB,YAAY;4HAmBX,mBAAmB,aAlBnB;QACTC,iBAAgB;QAC hB,8BA  
A8B;QAC9B,EAAC,OAAO,EAAE,QAAQ,EAAE,QAAQ,EAAE,WAAW,EAAC;QAC1C,EAAC,OAAO,EAAE,g  
BAAgB,EAAE,QAAQ,EAAE,oBAAoB,EAAC;QAC3D;YACE,OAAO,EAAE,MAAM;YACf,UAAU,EAAE,kBA  
AkB;YAC9B,IAAI,EAAE;gBACJ,aAAa,EAAE,sBAAsB,EAAE,QAAQ,EAAE,QAAQ,EAAE,QAAQ,EAAE,MA  
AM;gBAC3E,oBAAoB,EAAE,CAAC,mBAAmB,EAAE,IAAI,QAAQ,EAAE,CAAC;gBAC3D,CAAC,kBAAkB,E  
AAE,IAAI,QAAQ,EAAE,CAAC;aACrC;SACF;QACD,EAAC,OAAO,EAAE,kBAAkB,EAAE,WAAW,EAAE,YA  
AY,EAAC;QACxD,aAAa,CAAC,EAAE,CAAC;KACIB,YAjBS,YAAY;sGAmBX,mBAAmB;kBApB/B,QAAQ;m  
BAAC;oBACR,OAAO,EAAE,CAAC,YAAY,CAAC;oBACvB,SAAS,EAAE;wBACTA,iBAAgB;wBACHb,8BAA  
8B;wBAC9B,EAAC,OAAO,EAAE,QAAQ,EAAE,QAAQ,EAAE,WAAW,EAAC;wBAC1C,EAAC,OAAO,EAAE,  
gBAAgB,EAAE,QAAQ,EAAE,oBAAoB,EAAC;wBAC3D;4BACE,OAAO,EAAE,MAAM;4BACf,UAAU,EAAE,  
kBAAkB;4BAC9B,IAAI,EAAE;gCACJ,aAAa,EAAE,sBAAsB,EAAE,QAAQ,EAAE,QAAQ,EAAE,QAAQ,EAAE  
,MAAM;gCAC3E,oBAAoB,EAAE,CAAC,mBAAmB,EAAE,IAAI,QAAQ,EAAE,CAAC;gCAC3D,CAAC,kBAAk  
B,EAAE,IAAI,QAAQ,EAAE,CAAC;6BACrC;yBACF;wBACD,EAAC,OAAO,EAAE,kBAAkB,EAAE,WAAW,E  
AAE,YAAY,EAAC;wBACxD,aAAa,CAAC,EAAE,CAAC;qBACIB;iBACF;;ACIGD;;;;;;;;;AAQA;AACa,mCAAE,  
EAAE;;ACTjB;;;;;;;;;ACAA;;;;;;;;;AAeA;;ACfA;;;;;;;;;ACAA;;;;;;;;;"} }

Found

in path(s):

\* /router-13-2-7-tgz/package/fesm2015/testing.mjs.map

\* /router-13-2-7-tgz/package/fesm2020/testing.mjs.map

No license file was found, but licenses were detected in source scan.

/\*\*

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\* License: MIT

\*/

/\*\*



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* found in the LICENSE file at https://angular.io/license
*/
```

Found in path(s):

```
* /router-13-2-7-tgz/package/fesm2020/upgrade.mjs
* /router-13-2-7-tgz/package/fesm2015/router.mjs
* /router-13-2-7-tgz/package/fesm2020/router.mjs
* /router-13-2-7-tgz/package/fesm2015/testing.mjs
* /router-13-2-7-tgz/package/fesm2015/upgrade.mjs
* /router-13-2-7-tgz/package/fesm2020/testing.mjs
```

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```

Found in path(s):

```
* /router-13-2-7-tgz/package/testing/testing.d.ts
* /router-13-2-7-tgz/package/router.d.ts
* /router-13-2-7-tgz/package/upgrade/upgrade.d.ts
```

MIT

## 1.739 @angular/platform-browser-dynamic

### 13.2.7

#### 1.739.1 Available under license :

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Angular  
=====

The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).

License: MIT

Found in path(s):

```
* /platform-browser-dynamic-13-2-7-tgz/package/README.md
```

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 */
```

Found in path(s):

```
* /platform-browser-dynamic-13-2-7-tgz/package/fesm2015/testing.mjs
* /platform-browser-dynamic-13-2-7-tgz/package/fesm2020/platform-browser-dynamic.mjs
* /platform-browser-dynamic-13-2-7-tgz/package/fesm2020/testing.mjs
* /platform-browser-dynamic-13-2-7-tgz/package/fesm2015/platform-browser-dynamic.mjs
```

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 * License: MIT
 */
```

Found in path(s):

```
* /platform-browser-dynamic-13-2-7-tgz/package/testing/testing.d.ts
* /platform-browser-dynamic-13-2-7-tgz/package/platform-browser-dynamic.d.ts
```

## 1.740 @angular/platform-browser 13.2.7

### 1.740.1 Available under license :

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 */
```

Found in path(s):

- \* /platform-browser-13-2-7-tgz/package/esm2020/public\_api.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/testing/src/matchers.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/animations/src/providers.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/browser/server-transition.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/security/dom\_sanitization\_service.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/testing/src/browser.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/browser/testability.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/dom/debug/ng\_probe.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/browser/tools/browser.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/private\_export.mjs
- \*
- /platform-browser-13-2-7-tgz/package/esm2020/src/dom/events/event\_manager.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/testing/public\_api.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/browser/meta.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/testing/index.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/browser/tools/tools.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/browser.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/browser/tools/common\_tools.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/dom/events/key\_events.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/version.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/animations/index.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/index.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/dom/debug/by.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/animations/src/private\_export.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/dom/events/hammer\_gestures.mjs
- \*
- /platform-browser-13-2-7-tgz/package/esm2020/src/dom/util.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/animations/src/module.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/dom/shared\_styles\_host.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/testing/src/browser\_util.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/browser/generic\_browser\_adapter.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/browser/transfer\_state.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/animations/src/animations.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/animations/public\_api.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/platform-browser.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/dom/events/dom\_events.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/dom/dom\_renderer.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/animations/src/animation\_builder.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/src/browser/title.mjs
- \*
- /platform-browser-13-2-7-tgz/package/esm2020/src/browser/browser\_adapter.mjs
- \* /platform-browser-13-2-7-tgz/package/esm2020/testing/src/testing.mjs

No license file was found, but licenses were detected in source scan.

```
{
 "version": 3,
 "file": "testing.mjs",
 "sources": [
 "../..../..../packages/platform-browser/testing/src/browser_util.ts",
 "../..../..../packages/platform-browser/testing/src/browser.ts",
 "../..../..../packages/platform-browser/testing/src/testing.ts",
 "../..../..../packages/platform-
```

```

browser/testing/public_api.ts","../..../..../packages/platform-
browser/testing/index.ts","../..../..../packages/platform-browser/testing/testing.ts"],"sourcesContent":["/**\n *
@license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {getDOM as
getDOM} from '@angular/common';\nimport {NgZone, global as global} from '@angular/core';\n\nexport class
BrowserDetection {\n private _overrideUa: string|null;\n private get _ua(): string {\n if (typeof this._overrideUa
===
'string') {\n return this._overrideUa;\n }\n\n return getDOM() ? getDOM().getUserAgent() : '';\n\n static
setup() {\n return new BrowserDetection(null);\n }\n\n constructor(ua: string|null) {\n this._overrideUa = ua;\n }\n\n get isFirefox(): boolean {\n return this._ua.indexOf('Firefox') > -1;\n }\n\n get isAndroid(): boolean {\n
return this._ua.indexOf('Mozilla/5.0') > -1 && this._ua.indexOf('Android') > -1 &&\n
this._ua.indexOf('AppleWebKit') > -1 && this._ua.indexOf('Chrome') == -1 &&\n
this._ua.indexOf('IEMobile') == -1;\n }\n\n get isEdge(): boolean {\n return this._ua.indexOf('Edge') > -1;\n }\n\n get isWebkit(): boolean {\n
return this._ua.indexOf('AppleWebKit') > -1 && this._ua.indexOf('Edge') == -1 &&\n
this._ua.indexOf('IEMobile') == -1;\n }\n\n get isIOS7(): boolean {\n return (this._ua.indexOf('iPhone OS 7') > -
1 || this._ua.indexOf('iPad OS 7') > -1) &&\n
this._ua.indexOf('IEMobile') == -1;\n }\n\n get isSlow(): boolean {\n return this.isAndroid || this.isIOS7;\n }\n\n get isChromeDesktop(): boolean {\n
return this._ua.indexOf('Chrome') > -1 && this._ua.indexOf('Mobile Safari') == -1 &&\n
this._ua.indexOf('Edge') == -1;\n }\n\n // \"Old Chrome\" means Chrome 3X, where there are some discrepancies
in the Intl API.\n // Android 4.4 and 5.X have such browsers by default (respectively 30 and 39).\n get
isOldChrome(): boolean {\n return this._ua.indexOf('Chrome') > -1 && this._ua.indexOf('Chrome/3') > -1 &&\n
this._ua.indexOf('Edge') == -1;\n }\n\n get supportsCustomElements() {\n return (typeof
(<any>global).customElements !== 'undefined');\n }\n\n get supportsDeprecatedCustomCustomElementsV0() {\n
return (typeof (document as any).registerElement !== 'undefined');\n }\n\n get supportsRegExUnicodeFlag():
boolean {\n return RegExp.prototype.hasOwnProperty('unicode');\n }\n\n get supportsShadowDom() {\n const
testEl = document.createElement('div');\n
return (typeof testEl.attachShadow !== 'undefined');\n }\n\n get supportsDeprecatedShadowDomV0() {\n
const testEl = document.createElement('div') as any;\n return (typeof testEl.createShadowRoot !== 'undefined');\n
}\n}\n\nexport const browserDetection: BrowserDetection = BrowserDetection.setup();\n\nexport function
dispatchEvent(element: any, eventType: any): void {\n const evt: Event =
getDOM().getDefaultDocument().createEvent('Event');\n evt.initEvent(eventType, true, true);\n
getDOM().dispatchEvent(element, evt);\n}\n\nexport function createMouseEvent(eventType: string): MouseEvent
{\n const evt: MouseEvent = getDOM().getDefaultDocument().createEvent('MouseEvent');\n
evt.initEvent(eventType, true, true);\n return evt;\n}\n\nexport function el(html: string): HTMLElement {\n return
<HTMLElement>getContent(createTemplate(html)).firstChild;\n}\n\nexport function normalizeCSS(css: string):
string {\n return css.replace(/\\s+/g, ' ').replace(/:/g,\n
':')\n .replace(/'/g, '\\\\')\n .replace(/ /g, '\\\\')\n .replace(/url\\((\\|\\\\|\\s)(.+)\\(\\|\\\\|\\s)\\)\\(\\s*)/g, (...match: string[])
=> `url(\"${match[2]}\")`\n .replace(/\\[\\(\\+=\\[\\^\"\\\\\\]\\+\\)/g, (...match: string[]) =>
`[${match[1]}=\"${match[2]}\"]`);\n}\n\nfunction getAttributeMap(element: any): Map<string, string> {\n const
res = new Map<string, string>();\n const elAttrs = element.attributes;\n for (let i = 0; i < elAttrs.length; i++) {\n
const attrib = elAttrs.item(i);\n res.set(attrib.name, attrib.value);\n }\n return res;\n}\n\nconst _selfClosingTags =
['br', 'hr', 'input'];\nexport function stringifyElement(el: any /** TODO #9100 */): string {\n let result = '';\n if
(getDOM().isElementNode(el)) {\n const tagName = el.tagName.toLowerCase();\n\n // Opening tag\n result
+= `<${tagName}`;\n\n // Attributes in an ordered way\n const attributeMap = getAttributeMap(el);\n const
sortedKeys = Array.from(attributeMap.keys()).sort();\n
for (const key of sortedKeys) {\n const lowerCaseKey = key.toLowerCase();\n let attValue =
attributeMap.get(key);\n\n if (typeof attValue !== 'string') {\n result += ` ${lowerCaseKey}`;\n } else {\n
// Browsers order style rules differently. Order them alphabetically for consistency.\n if (lowerCaseKey ===

```

```
'style') {\n attValue = attValue.split(/; ?/).sort().map(s => `${s};`).join(' '); \n } \n\n result
+= ` ${lowerCaseKey}=\"${attValue}\"`; \n } \n } \n result += '>'; \n \n // Children \n const childrenRoot =
templateAwareRoot(el); \n const children = childrenRoot ? childrenRoot.childNodes : []; \n for (let j = 0; j <
children.length; j++) { \n result += stringifyElement(children[j]); \n } \n \n // Closing tag \n if
(_selfClosingTags.indexOf(tagName) == -1) { \n result += `</${tagName}>`; \n } \n } else if
(isCommentNode(el)) { \n result += `<!--${el.nodeValue}-->`; \n
 } else { \n result += el.textContent; \n } \n \n return result; \n } \n \n \n export function createNgZone(): NgZone { \n
return new NgZone({enableLongStackTrace: true, shouldCoalesceEventChangeDetection: false}); \n } \n \n \n export
function isCommentNode(node: Node): boolean { \n return node.nodeType ===

Node.COMMENT_NODE; \n } \n \n \n export function isTextNode(node: Node): boolean { \n return node.nodeType ===

Node.TEXT_NODE; \n } \n \n \n export function getContent(node: Node): Node { \n if ('content' in node) { \n return
<any>node).content; \n } else { \n return node; \n } \n } \n \n \n export function templateAwareRoot(el: Node): any { \n
return getDOM().isElementNode(el) && el.nodeName === 'TEMPLATE' ? getContent(el) : el; \n } \n \n \n export
function setCookie(name: string, value: string) { \n // document.cookie is magical, assigning into it assigns/overrides
one cookie value, but does \n // not clear other cookies. \n document.cookie = encodeURIComponent(name) + '=' +
encodeURIComponent(value); \n } \n \n \n export function

supportsWebAnimation(): boolean { \n return typeof (<any>Element).prototype['animate'] ===
'function'; \n } \n \n \n export function hasStyle(element: any, styleName: string, styleValue?: string|null): boolean { \n
const value = element.style[styleName] || ''; \n return styleValue ? value == styleValue : value.length >
0; \n } \n \n \n export function hasClass(element: any, className: string): boolean { \n return
element.classList.contains(className); \n } \n \n \n export function sortedClassList(element: any): any[] { \n return
Array.prototype.slice.call(element.classList, 0).sort(); \n } \n \n \n export function createTemplate(html: any):
HTMLElement { \n const t = getDOM().getDefaultDocument().createElement('template'); \n t.innerHTML = html; \n
return t; \n } \n \n \n export function childNodesAsList(el: Node): any[] { \n const childNodes = el.childNodes; \n const
res = []; \n for (let i = 0; i < childNodes.length; i++) { \n res[i] = childNodes[i]; \n } \n return res; \n } \n \n
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LLC All Rights Reserved. \n * \n * Use of this source code is governed by an MIT-style license that can be \n * found
in the LICENSE file at https://angular.io/license \n */ \n import {APP_ID, createPlatformFactory, NgModule,
NgZone, PLATFORM_INITIALIZER, platformCore, StaticProvider} from '@angular/core'; \n import
{BrowserModule, BrowserDomAdapter as BrowserDomAdapter} from '@angular/platform-browser'; \n \n import
{BrowserDetection, createNgZone} from './browser_util'; \n \n function initBrowserTests() { \n
BrowserDomAdapter.makeCurrent(); \n BrowserDetection.setup(); \n } \n \n \n const
_TEST_BROWSER_PLATFORM_PROVIDERS: StaticProvider[] = [\n {provide: PLATFORM_INITIALIZER,
useValue: initBrowserTests, multi: true}], \n \n \n /** \n * Platform for testing \n * \n * @publicApi \n */ \n export const
platformBrowserTesting = \n createPlatformFactory(platformCore, 'browserTesting',
_TEST_BROWSER_PLATFORM_PROVIDERS); \n \n \n /** \n * NgModule for testing. \n * \n * @publicApi \n */ \n
@NgModule({ \n exports: [BrowserModule], \n
 providers: [\n {provide: APP_ID, useValue: 'a'}, \n {provide: NgZone, useFactory: createNgZone}, \n
] \n }) \n export class BrowserTestingModule { \n } \n \n \n /** \n * \n * @license \n * Copyright Google LLC All Rights
Reserved. \n * \n * Use of this source code is governed by an MIT-style license that can be \n * found in the
LICENSE file at https://angular.io/license \n */ \n \n /** \n * \n * @module \n * @description \n * Entry point for all public
APIs of the platform-browser/testing package. \n * \n * \n * from './browser'; \n */ \n \n /** \n * \n * @license \n * Copyright
Google LLC All Rights Reserved. \n * \n * Use of this source code is governed by an MIT-style license that can be \n
* found in the LICENSE file at https://angular.io/license \n */ \n \n \n <reference types='jasmine' /> \n \n \n /** \n * \n * @module \n * @description \n * Entry point for all public APIs of this package. \n * \n * \n * from
'./src/testing'; \n */ \n \n /** \n * \n * @license \n * Copyright Google LLC All Rights Reserved. \n * \n * Use of this source code
is governed
```

by an MIT-style license that can be found in the LICENSE file at https://angular.io/license

This file is not used to build this module. It is only used during editing by the TypeScript language service and during build for verification.

`ngc` replaces this file with production index.ts when it rewrites private symbol names.

```
nexport * from './public_api';
/**
 * Generated bundle index. Do not edit.
 */
export * from './index';
const names = ["getDOM", "global", "BrowserDomAdapter"], mappings: {
 ;;;;AAAA;MAWa,gBAAgB;IAc3B,YAAY,EAAe;QACzB,IAAI,CAAC,WAAW,GAAG,EAAE,CAAC;KACvB;IAdD,IAAY,GAAG;QACb,IAAI,OAAO,IAAI,CAAC,WAAW,KAAK,QAAQ,EAAE;YACxC,OAAO,IAAI,CAAC,WAAW,CAAC;SACzB;QAED,OAAOA,OAAm,EAAE,GAAGA,OAAm,EAAE,CAAC,YAAY,EAAE,GAAG,EAAE,CAAC;KACHd;IAED,OAAO,KAAK;QACV,OAAO,IAAI,gBAAgB,CAAC,IAAI,CAAC,CAAC;KACnC;IAMd,IAAI,SAAS;QACX,OAAO,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,SAAS,CAAC,GAAG,CAAC,CAAC,CAAC;KACzC;IAED,IAAI,SAAS;QACX,OAAO,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,aAAa,CAAC,GAAG,CAAC,CAAC,IAAI,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,SAAS,CAAC,GAAG,CAAC,CAAC;YAC3E,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,aAAa,CAAC,GAAG,CAAC,CAAC,IAAI,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,SAAS,CAAC,GAAG,CAAC,CAAC;YACxE,IAAI,CAAC,GAAG,CAAC,UAAU,CAAC,IAAI,CAAC,CAAC,CAC;KACxC;IAED,IAAI,MAAM;QACR,OAAO,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,MAAM,CAAC,GAAG,CAAC,CAAC,CAAC;KACTC;IAED,IAAI,QAAQ;QACV,OAAO,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,aAAa,CAAC,GAAG,CAAC,CAAC,IAAI,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,MAAM,CAAC,IAAI,CAAC,CAAC;YACzE,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,UAAU,CAAC,IAAI,CAAC,CAAC,CAAC;KACxC;IAED,IAAI,MAAM;QACR,OAAO,CAAC,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,aAAa,CAAC,GAAG,CAAC,CAAC,IAAI,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,WAAW,CAAC,GAAG,CAAC,CAAC;YAC9E,IAAI,CAAC,GAAg,CAAC,OAAO,CAAC,UAAU,CAAC,IAAI,CAAC,CAAC,CAAC;KACxC;IAED,IAAI,MAAM;QACR,OAAO,IAAI,CAAC,SAAS,IAAI,IAAI,CAAC,MAAM,CAAC;KACTC;IAED,IAAI,eAAe;QACjB,OAAO,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,QAAQ,CAAC,GAAG,CAAC,CAAC,IAAI,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,eAAe,CAAC,IAAI,CAAC,CAAC;YAC7E,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;KACPc;;;IAID,IAAI,WAAW;QACb,OAAO,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,QAAQ,CAAC,GAAG,CAAC,CAAC,IAAI,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,UAAU,CAAC,GAAG,CAAC,C AAC;YACvE,IAAI,CAAC,GAAG,CAAC,OAAO,CAAC,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;KACPc;IAED,IAAI,sBAAsB;QACxB,QAAQ,OAAaC,OAAO,CAAC,cAAc,KAAK,WAAW,EAAE;KAC9D;IAED,IAAI,wCAAwC;QAC1C,QAAQ,OAAQ,QAAgB,CAAC,eAAe,KAAK,WAAW,EAAE;KACnE;IAED,IAAI,wBAAwB;QAC1B,OAAO,MAAM,CAAC,SAAS,CAAC,cAAc,CAAC,SAAS,CAAC,CAAC;KACnD;IAED,IAAI,iBAAiB;QACnB,MAAM,MAAM,GAAG,QAAQ,CAAC,aAAa,CAAC,KAAK,CAAC,CAAC;QAC7C,QAAQ,OAAO,MAAM,CAAC,YAAY,KAAK,WAAW,EAAE;KACrD;IAED,IAAI,6BAA6B;QAC/B,MAAM,MAAM,GAAG,QAAQ,CAAC,aAAa,CAAC,KAAK,CAAQ,CAAC;QACpD,QAAQ,OAAO,MAAM,CAAC,gBAAgB,KAAK,WAAW,EAAE;KACzD;CACF;AAEM,MAAM,gBAAgB,GAAqB,gBAAgB,CAAC,KAAK,EAAE,CAAC;SAE3D,aAAa,CAAC,OAAy,EAAE,SAAc;IACxD,MAAM,GAAG,GAAUD,OAAm,EAAE,CAAC,kBAAkB,EAAE,CAAC,WAAW,CAAC,OAAO,CAAC,CAAC;IACtE,GAAG,CAAC,SAAS,CAAC,SAAS,EAAE,IAAI,EAAE,IAAI,CAAC,CAAC;IACrCA,OAAm,EAAE,CAAC,aAAa,CAAC,OAAO,EAAE,GAAG,CAAC,CAAC;AACvC,CAAC;SAEe,gBAAgB,CAAC,SAAiB;IACHd,MAAM,GAAG,GAAeA,OAAm,EAAE,CAAC,kBAAkB,EAAE,CAAC,WAAW,CAAC,YAAY,C AAC,CAAC;IACHf,GAAG,CAAC,SAAS,CAAC,SAAS,EAAE,IAAI,EAAE,IAAI,CAAC,CAAC;IACrC,OAAO,G AAG,CAAC;AACb,CAAC;SAEe,EAAE,CAAC,IAAY;IAC7B,OAAoB,UAAU,CAAC,cAAc,CAAC,IAAI,CAAC,CAAC,CAAC,UAAU,CAAC;AACIE,CAAC;SAEe,YAAY,CAAC,GAAW;IACtC,OAAO,GAAG,CAAC,OAAO,C AAC,MAAM,EAAE,GAAG,CAAC;SAC1B,OAAO,CAAC,MAAM,EAAE,GAAG,CAAC;SACpB,OAAO,CAAC,IAAI,EAAE,GAAG,CAAC;SACIB,OAAO,CAAC,KAAK,EAAE,GAAG,CAAC;SACnB,OAAO,CAAC,iCAAiC,E AAE,CAAC,GAAG,KAAe,KAAK,QAAQ,KAAK,CAAC,CAAC,CAAC,IAAI,CAAC;SACxF,OAAO,CAAC,qBA AqB,EAAE,CAAC,GAAG,KAAe,KAAK,IAAI,KAAK,CAAC,CAAC,CAAC,KAAK,KAAK,CAAC,CAAC,CAA C,IAAI,CAAC,CAAC;AAC7F,CAAC;AAED,SAAS,eAAe,CAAC,OAAy;IACnC,MAAM,GAAG,GAAG,IAAI,G AAG,EAAkB,CAAC;IACtC,MAAM,OAAO,GAAG,OAAO,CAAC,UAAU,CAAC;IACnC,KAAK,IAAI,CAAC,G AAG,CAAC,EAAE,CAAC,GAAG,OAAO,CAAC,MAAM,EAAE,CAAC,EAAE,EAAE;QACvC,MAAM,MAAM,
```

GAAG,OAAO,CAAC,IAAI,CAAC,CAAC,CAAC,CAAC;QAC/B,GAAG,CAAC,GAAG,CAAC,MAAM,CAAC,IAAI,EAAE,MAAM,CAAC,KAAC,CAAC,CAAC;KACpC;IACD,OAAO,GAAG,CAAC;AACb,CAAC;AAED,MAAM,gBAAGB,GAAG,CAAC,IAAI,EAAE,IAAI,EAAE,OAAO,CAAC,CAAC;SAC/B,gBAAGB,CAAC,EAAO;IACtC,IAAI,MAAM,GAAG,EAAE,CAAC;IACbB,IAAIA,OAAM,EAAE,CAAC,aAAa,CAAC,EAAE,CAAC,EAAE;QAC9B,MAAM,OAAO,GAAG,EAAE,CAAC,OAAO,CAAC,WAAW,EAAE,CAAC;;QAGzC,MAAM,IAAI,IAAI,OAAO,EAAE,CAAC;;QAGxB,MAAM,YAAY,GAAG,eAAe,CAAC,EAAE,CAAC,CAAC;QACzC,MAAM,UAAU,GAAG,KAAC,CAAC,IAAI,CAAC,YAAY,CAAC,IAAI,EAAE,CAAC,CAAC,IAAI,EAAE,CAAC;QAC1D,KAAC,MAAM,GAAG,IAAI,UAAU,EAAE;YAC5B,MAAM,YAAY,GAAG,GAAG,CAAC,WAAW,EAAE,CAAC;YACvC,IAAI,QAAQ,GAAG,YAAY,CAAC,GAAG,CAAC,GAAG,CAAC,CAAC;YAErC,IAAI,OAAO,QAAQ,KAAC,QAAQ,EAAE;gBACbC,MAAM,IAAI,IAAI,YAAY,EAAE,CAAC;aAC9B;iBAAM;;gBAEL,IAAI,YAAY,KAAC,OAAO,EAAE;oBAC5B,QAAQ,GAAG,QAAQ,CAAC,KAAC,CAAC,KAAC,CAAC,MAAM,CAAC,CAAC,IAAI,CAAC,CAAC,CAAC,CAAC,CAAC,IAAI,EAAE,CAAC,GAAG,CAAC,CAAC,IAAI,GAAG,CAAC,GAAG,CAAC,IAAI,CAAC,GAAG,CAAC,CAAC;IBACtF;gBAED,MAAM,IAAI,IAAI,YAAY,KAAC,QAAQ,GAAG,CAAC;aAC5C;SACF;QACD,MAAM,IAAI,GAAG,CAAC;;QAGd,MAAM,YAAY,GAAG,iBAAiB,CAAC,EAAE,CAAC,CAAC;QAC3C,MAAM,QAAQ,GAAG,YAAY,GAAG,YAAY,CAAC,UAAU,GAAG,EAAE,CAAC;QAC7D,KAAC,IAAI,CAAC,GAAG,CAAC,EAAE,CAAC,GAAG,QAAQ,CAAC,MAAM,EAAE,CAAC,EAAE,EAAE;YACxC,MAAM,IAAI,gBAAGB,CAAC,QAAQ,CAAC,CAAC,CAAC,CAAC,CAAC;SACzC;;QAGD,IAAI,gBAAGB,CAAC,OAAO,CAAC,OAAO,CAAC,IAAI,CAAC,CAAC,EAAE;YAC3C,MAAM,IAAI,KAAC,OAAO,GAAG,CAAC;SAC3B;KACF;SAAM,IAAI,aAAa,CAAC,EAAE,CAAC,EAAE;QAC5B,MAAM,IAAI,OA AO,EAAE,CAAC,SAAS,KAAC,CAAC;KACpC;SAAM;QACL,MAAM,IAAI,EAAE,CAAC,WAAW,CAAC;KAC1B;IAED,OAAO,MAAM,CAAC;AACbB,CAAC;SAEe,YAAY;IAC1B,OAAO,IAAI,MAAM,CAAC,EAAC,oBA AoB,EAAE,IAAI,EAAE,kCAAkC,EAAE,KAAC,EAAC,CAAC,CAAC;AAC7F,CAAC;SAEe,aAAa,CAAC,IAAU ;IACtC,OAAO,IAAI,CAAC,QAAQ,KAAC,IAAI,CAAC,YAAY,CAAC;AAC7C,CAAC;SAEe,UAAU,CAAC,IAAU ;IACnC,OAAO,IAAI,CAAC,QAAQ,KAAC,IAAI,CAAC,SAAS,CAAC;AAC1C,CAAC;SAEe,UAAU,CAAC,IAAU ;IACnC,IAAI,SAAS,IAAI,IAAI,EAAE;QACrB,OAAa,IAAK,CAAC,OAAO,CAAC;KAC5B;SAAM;QACL,O AAO,IAAI,CAAC;KACb;AACH,CAAC;SAEe,iBAAiB,CAAC,EAAQ;IACxC,OAAOA,OAAM,EAAE,CAAC,aA Aa,CAAC,EAAE,CAAC,IAAI,EAAE,CAAC,QAAQ,KAAC,UAAU,GAAG,UAAU,CAAC,EAAE,CAAC,GAAG, EAAE,CAAC;AACxF,CAAC;SAEe,SAAS,CAAC,IAAY,EAAE,KAAa;;IAGnD,QAAQ,CAAC,MAAM,GAAG,k BAAkB,CAAC,IAAI,CAAC,GAAG,GAAG,GAAG,kBAAkB,CAAC,KAAC,CAAC,CAAC;AAC/E,CAAC;SAEe, oBAAoB;IAClC,OAAO,OAAa,OAAQ,CAAC,SAAS,CAAC,SAAS,CAAC,KAAC,UAAU,CAAC;AACnE,CAAC; SAEe,QAAQ,CAAC,OAAY,EAAE,SAAiB,EAAE,UAAwB;IACf,MAAM,KAAC,GAAG,OAAO,CAAC,KAAC ,CAAC,SAAS,CAAC,IAAI,EAAE,CAAC;IAC7C,OAAO,UAAU,GAAG,KAAC,IAAI,UAAU,GAAG,KAAC,CA AC,MAAM,GAAG,CAAC,CAAC;AAC7D,CAAC;SAEe,QAAQ,CAAC,OAAY,EAAE,SAAiB;IACtD,OAAO,OA AO,CAAC,SAAS,CAAC,QAAQ,CAAC,SAAS,CAAC,CAAC;AAC/C,CAAC;SAEe,eAAe,CAAC,OAAY;IAC1C, OAAO,KAAC,CAAC,SAAS,CAAC,KAAC,CAAC,IAAI,CAAC,OAAO,CAAC,SAAS,EAAE,CAAC,CAAC,CAA C,IAAI,EAAE,CAAC;AACjE,CAAC;SAEe,cAAc,CAAC,IAAS;IACtC,MAAM,CAAC,GAAGA,OAAM,EAAE,C AAC,kBAAkB,EAAE,CAAC,aAAa,CAAC,UAAU,CAAC,CAAC;IACIE,CAAC,CAAC,SAAS,GAAG,IAAI,CAA C;IACnB,OAAO,CAAC,CAAC;AACX,CAAC;SAEe,gBAAGB,CAAC,EAAQ;IACvC,MAAM,UAAU,GAAG,EA AE,CAAC,UAAU,CAAC;IACjC,MAAM,GAAG,GAAG,EAAE,CAAC;IACf,KAAC,IAAI,CAAC,GAAG,CAAC, EAAE,CAAC,GAAG,UAAU,CAAC,MAAM,EAAE,CAAC,EAAE,EAAE;QAC1C,GAAG,CAAC,CAAC,CAAC, GAAG,UAAU,CAAC,CAAC,CAAC,CAAC;KACxB;IACD,OAAO,GAAG,CAAC;AACb;;AC9OA;;;;AAYA,S AAS,gBAAGB;IACvBE,kBAAiB,CAAC,WAAW,EAAE,CAAC;IACbC,gBAAGB,CAAC,KAAC,EAAE,CAAC;AAC3B,CAAC;AAED,MAAM,gCAAGC,GAClC,CAAC,EAAC,OAAO,EAAE,oBAAoB,EAAE,QAAQ,EAAE,gBA AgB,EAAE,KAAC,EAAE,IAAI,EAAC,CAAC,CAAC;AAE/E;;;MAKa,sBAAsB,GAC/B,qBAAQB,CAAC,YAA Y,EAAE,gBAAGB,EAAE,gCAAGC,EAAE;AAE5F;;;;MAYa,oBAAoB;;4HAApB,oBAAoB;6HAApB,oBAAoB,Y ANrB,aAAa;6HAMZ,oBAAoB,aALpB;QACT,EAAC,OAAO,EAAE,MAAM,EAAE,QAAQ,EAAE,GAAG,EAAC ;QACbC,EAAC,OAAO,EAAE,MAAM,EAAE,UAAU,EAAE,YAAY,EAAC;KAC5C,YAJS,aAAa;sGAMZ,oBAA oB;kBAPhC,QAAQ;mBAAC;oBACR,OAAO,EAAE,CAAC,aAAa,CAAC;oBACxB,SAAS,EAAE;wBACT,EAAC





```
this._command('destroy');\n }\n\n reset(): void {\n this._command('reset');\n this._started = false;\n }\n\n setPosition(p: number): void {\n this._command('setPosition', p);\n }\n\n getPosition(): number {\n return this._renderer.engine.players[+this.id]?.getPosition() ?? 0;\n }\n\n public totalTime = 0;\n\nfunction issueAnimationCommand(\n renderer: AnimationRenderer, element: any, id: string, command: string, args: any[]):\nany {\n return renderer.setProperty(element, `@@${id}:${command}`, args);\n}\n\n"/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\nimport {AnimationTriggerMetadata} from '@angular/animations';\nimport {AnimationEngine as AnimationEngine} from '@angular/animations/browser';\nimport {Injectable, NgZone, Renderer2, RendererFactory2, RendererStyleFlags2, RendererType2} from '@angular/core';\n\nconst ANIMATION_PREFIX = '@';\nconst DISABLE_ANIMATIONS_FLAG = '@.disabled';\n\n// Define a recursive type to allow for nested arrays of `AnimationTriggerMetadata`.\n\nNote that an\n// interface declaration is used as TypeScript prior to 3.7 does not support recursive type\n// references, see https://github.com/microsoft/TypeScript/pull/33050 for details.\ntype NestedAnimationTriggerMetadata = AnimationTriggerMetadata | RecursiveAnimationTriggerMetadata;\n\ninterface RecursiveAnimationTriggerMetadata extends Array<NestedAnimationTriggerMetadata> {}\n\n@Injectable()\nexport class AnimationRendererFactory implements RendererFactory2 {\n private _currentId: number = 0;\n private _microtaskId: number = 1;\n private _animationCallbacksBuffer: [(e: any) => any, any][] = [];\n private _rendererCache = new Map<Renderer2, BaseAnimationRenderer>();\n private _cdRecurDepth = 0;\n private promise: Promise<any> = Promise.resolve(0);\n\n constructor(\n private delegate: RendererFactory2,\n private engine: AnimationEngine, private _zone: NgZone) {\n engine.onRemovalComplete = (element: any, delegate: Renderer2) => {\n // Note: if a component element has a leave animation, and a host leave animation,\n // the view engine will call `removeChild` for the parent\n // component renderer as well as for the child component renderer.\n // Therefore, we need to check if we already removed the element.\n const parentNode = delegate?.parentNode(element);\n if (parentNode) {\n delegate.removeChild(parentNode, element);\n }\n };\n\n createRenderer(hostElement: any, type: RendererType2): Renderer2 {\n const EMPTY_NAMESPACE_ID = '';\n // cache the delegates to find out which cached delegate can\n // be used by which cached renderer\n const delegate = this.delegate.createRenderer(hostElement, type);\n if (!hostElement || !type || !type.data || !type.data['animation']) {\n let renderer: BaseAnimationRenderer | undefined = this._rendererCache.get(delegate);\n if (!renderer) {\n renderer = new BaseAnimationRenderer(EMPTY_NAMESPACE_ID, delegate, this.engine);\n // only cache this result when the base renderer is used\n this._rendererCache.set(delegate, renderer);\n }\n return renderer;\n }\n\n const componentId = type.id;\n const namespaceId = type.id + '-' + this._currentId;\n this._currentId++;\n\n this.engine.register(namespaceId, hostElement);\n\n const registerTrigger = (trigger: NestedAnimationTriggerMetadata) => {\n if (Array.isArray(trigger)) {\n trigger.forEach(registerTrigger);\n } else {\n this.engine.registerTrigger(componentId, namespaceId, hostElement, trigger.name, trigger);\n }\n };\n\n const animationTriggers = type.data['animation'] as NestedAnimationTriggerMetadata[];\n animationTriggers.forEach(registerTrigger);\n\n return new AnimationRenderer(this, namespaceId, delegate, this.engine);\n }\n\n begin() {\n this._cdRecurDepth++;\n if (this.delegate.begin()) {\n this.delegate.begin();\n }\n }\n\n private _scheduleCountTask() {\n // always use promise to schedule microtask instead of use Zone\n this.promise.then(() => {\n this._microtaskId++;\n });\n }\n\n /** @internal */\n scheduleListenerCallback(count: number, fn: (e: any) => any, data: any) {\n if (count >= 0 && count < this._microtaskId) {\n this._zone.run(() => fn(data));\n }\n return;\n }\n\n if (this._animationCallbacksBuffer.length == 0) {\n Promise.resolve(null).then(() => {\n this._zone.run(() => {\n this._animationCallbacksBuffer.forEach(tuple => {\n const [fn, data] = tuple;\n fn(data);\n });\n this._animationCallbacksBuffer = [];\n });\n });\n }\n }\n}
```

```

this._animationCallbacksBuffer.push([fn, data]);\n }\n\n end() {\n this._cdRecurDepth--;\n\n // this is to
prevent animations from running twice when an inner\n // component does CD when a parent component instead
has inserted it\n if (this._cdRecurDepth == 0) {\n this._zone.runOutsideAngular()\n => {\n this._scheduleCountTask();\n this.engine.flush(this._microtaskId);\n });\n }\n if
(this.delegate.end) {\n this.delegate.end();\n }\n}\n\n whenRenderingDone(): Promise<any> {\n return
this.engine.whenRenderingDone();\n }\n}\n\nexport class BaseAnimationRenderer implements Renderer2 {\n
 constructor(\n protected namespaceId: string, public delegate: Renderer2, public engine: AnimationEngine) {\n
 this.destroyNode = this.delegate.destroyNode ? (n) => delegate.destroyNode!(n) : null;\n }\n\n get data() {\n
 return this.delegate.data;\n }\n\n destroyNode: ((n: any) => void)|null;\n\n destroy(): void {\n
 this.engine.destroy(this.namespaceId, this.delegate);\n this.delegate.destroy();\n }\n\n createElement(name:
string, namespace?: string|null|undefined) {\n return this.delegate.createElement(name, namespace);\n }\n\n
 createComment(value: string) {\n return this.delegate.createComment(value);\n }\n\n
 }\n\n createText(value: string) {\n return this.delegate.createText(value);\n }\n\n appendChild(parent: any,
newChild: any): void {\n this.delegate.appendChild(parent, newChild);\n this.engine.onInsert(this.namespaceId,
newChild, parent, false);\n }\n\n insertBefore(parent: any, newChild: any, refChild: any, isMove: boolean = true):
void {\n this.delegate.insertBefore(parent, newChild, refChild);\n // If `isMove` true than we should animate this
insert.\n this.engine.onInsert(this.namespaceId, newChild, parent, isMove);\n }\n\n removeChild(parent: any,
oldChild: any, isHostElement: boolean): void {\n this.engine.onRemove(this.namespaceId, oldChild, this.delegate,
isHostElement);\n }\n\n selectRootElement(selectorOrNode: any, preserveContent?: boolean) {\n return
this.delegate.selectRootElement(selectorOrNode, preserveContent);\n }\n\n parentNode(node: any) {\n return
this.delegate.parentNode(node);\n }\n\n nextSibling(node: any) {\n
 return this.delegate.nextSibling(node);\n }\n\n setAttribute(el: any, name: string, value: string, namespace?:
string|null|undefined): void {\n this.delegate.setAttribute(el, name, value, namespace);\n }\n\n
 removeAttribute(el: any, name: string, namespace?: string|null|undefined): void {\n
 this.delegate.removeAttribute(el, name, namespace);\n }\n\n addClass(el: any, name: string): void {\n
 this.delegate.addClass(el, name);\n }\n\n removeClass(el: any, name: string): void {\n
 this.delegate.removeClass(el, name);\n }\n\n setStyle(el: any, style: string, value: any, flags?:
RendererStyleFlags2|undefined): void {\n this.delegate.setStyle(el, style, value, flags);\n }\n\n removeStyle(el:
any, style: string, flags?: RendererStyleFlags2|undefined): void {\n this.delegate.removeStyle(el, style, flags);\n
 }\n\n setProperty(el: any, name: string, value: any): void {\n if (name.charAt(0) == ANIMATION_PREFIX &&
name == DISABLE_ANIMATIONS_FLAG) {\n this.disableAnimations(el,
!!value);\n } else {\n this.delegate.setProperty(el, name, value);\n }\n }\n\n setValue(node: any, value:
string): void {\n this.delegate.setValue(node, value);\n }\n\n listen(target: any, eventName: string, callback:
(event: any) => boolean | void): () => void {\n return this.delegate.listen(target, eventName, callback);\n }\n\n
 protected disableAnimations(element: any, value: boolean) {\n this.engine.disableAnimations(element, value);\n
 }\n}\n\nexport class AnimationRenderer extends BaseAnimationRenderer implements Renderer2 {\n constructor(\n
 public factory: AnimationRendererFactory, namespaceId: string, delegate: Renderer2,\n engine:
AnimationEngine) {\n super(namespaceId, delegate, engine);\n this.namespaceId = namespaceId;\n }\n\n
 override setProperty(el: any, name: string, value: any): void {\n if (name.charAt(0) == ANIMATION_PREFIX) {\n
 if (name.charAt(1) == '.' && name == DISABLE_ANIMATIONS_FLAG) {\n
 value = value === undefined ? true : !!value;\n this.disableAnimations(el, value as boolean);\n } else {\n
 this.engine.process(this.namespaceId, el, name.substr(1), value);\n }\n } else {\n
 this.delegate.setProperty(el, name, value);\n }\n }\n\n override listen(\n target: 'window'|'document'|'body'|any,
eventName: string,\n callback: (event: any) => any): () => void {\n if (eventName.charAt(0) ==
ANIMATION_PREFIX) {\n const element = resolveElementFromTarget(target);\n let name =
eventName.substr(1);\n let phase = ";\n // @listener.phase is for trigger animation callbacks\n //
@@listener is for animation builder callbacks\n if (name.charAt(0) != ANIMATION_PREFIX) {\n [name,
phase] = parseTriggerCallbackName(name);\n }\n return this.engine.listen(this.namespaceId, element, name,

```

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phase, event => {\n const countId = (event as any)['_data'] || -1;\n
this.factory.scheduleListenerCallback(countId,\n
 callback, event);\n });\n }\n return this.delegate.listen(target, eventName, callback);\n }\n}\n\nfunction\nresolveElementFromTarget(target: 'window'|'document'|'body'|any): any {\n switch (target) {\n case 'body':\n return document.body;\n case 'document':\n return document;\n case 'window':\n return window;\n default:\n return target;\n }\n}\n\nfunction parseTriggerCallbackName(triggerName: string) {\n const dotIndex\n= triggerName.indexOf('.');\n const trigger = triggerName.substring(0, dotIndex);\n const phase =\ntriggerName.substr(dotIndex + 1);\n return [trigger, phase];\n}\n\n"/**\n * @license\n * Copyright Google LLC All\nRights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\nLICENSE file at https://angular.io/license\n */\n\nimport { AnimationBuilder } from '@angular/animations';\nimport\n{ AnimationDriver, AnimationEngine as AnimationEngine, AnimationStyleNormalizer\nas AnimationStyleNormalizer, NoopAnimationDriver as NoopAnimationDriver, WebAnimationsDriver as\nWebAnimationsDriver, WebAnimationsStyleNormalizer as WebAnimationsStyleNormalizer } from\n'@angular/animations/browser';\nimport { DOCUMENT } from '@angular/common';\nimport { Inject, Injectable,\nInjectionToken, NgZone, OnDestroy, Provider, RendererFactory2 } from '@angular/core';\nimport\n{ DomRendererFactory2 as DomRendererFactory2 } from '@angular/platform-browser';\nimport\n{ BrowserAnimationBuilder } from './animation_builder';\nimport { AnimationRendererFactory } from\n'./animation_renderer';\n\n@Injectable()\nexport class InjectableAnimationEngine extends AnimationEngine\nimplements OnDestroy {\n constructor(\n @Inject(DOCUMENT) doc: any, driver: AnimationDriver,\n normalizer: AnimationStyleNormalizer) {\n super(doc.body, driver, normalizer);\n }\n\n ngOnDestroy(): void {\n this.flush();\n }\n}\n\nexport function instantiateDefaultStyleNormalizer() {\n return new\nWebAnimationsStyleNormalizer();\n}\n\nexport\nfunction instantiateRendererFactory(\n renderer: DomRendererFactory2, engine: AnimationEngine, zone:\nNgZone) {\n return new AnimationRendererFactory(renderer, engine, zone);\n}\n\n/**\n * @publicApi\n */\n\nexport const ANIMATION_MODULE_TYPE =\nnew\nInjectionToken<'NoopAnimations'|'BrowserAnimations'>('AnimationModuleType');\n\nconst\nSHARED_ANIMATION_PROVIDERS: Provider[] = [\n { provide: AnimationBuilder, useClass:\nBrowserAnimationBuilder },\n { provide: AnimationStyleNormalizer, useFactory:\ninstantiateDefaultStyleNormalizer },\n { provide: AnimationEngine, useClass: InjectableAnimationEngine },\n {\nprovide: RendererFactory2,\n useFactory: instantiateRendererFactory,\n deps: [DomRendererFactory2,\nAnimationEngine, NgZone]\n }];\n\n/**\n * Separate providers from the actual module so that we can do a local\nmodification in Google3 to\n * include them in the BrowserModule.\n */\n\nexport const\nBROWSER_ANIMATIONS_PROVIDERS: Provider[] = [\n {\nprovide: AnimationDriver, useFactory: () => new WebAnimationsDriver(),\n provide:\nANIMATION_MODULE_TYPE, useValue: 'BrowserAnimations'},\n ...SHARED_ANIMATION_PROVIDERS];\n\n/**\n * Separate providers from the actual module so that we can\ndo a local modification in Google3 to\n * include them in the BrowserTestingModule.\n */\n\nexport const\nBROWSER_NOOP_ANIMATIONS_PROVIDERS: Provider[] = [\n { provide: AnimationDriver, useClass:\nNoopAnimationDriver },\n { provide: ANIMATION_MODULE_TYPE, useValue: 'NoopAnimations'},\n ...SHARED_ANIMATION_PROVIDERS];\n\n"/**\n * @license\n * Copyright Google LLC All Rights\nReserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\nLICENSE file at https://angular.io/license\n */\n\nimport { ModuleWithProviders, NgModule } from\n'@angular/core';\nimport { BrowserModule } from '@angular/platform-browser';\nimport\n{ BROWSER_ANIMATIONS_PROVIDERS, BROWSER_NOOP_ANIMATIONS_PROVIDERS } from\n'./providers';\n\n/**\n * Object\nused to configure the behavior of { @link BrowserAnimationsModule }\n */\n\nexport interface\nBrowserAnimationsModuleConfig {\n /**\n * Whether animations should be disabled. Passing this is identical to\nproviding the\n * `NoopAnimationsModule`, but it can be controlled based on a runtime value.\n */\n}

```

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disableAnimations?: boolean;\n}\n\n/**\n * Exports `BrowserModule` with additional [dependency-injection
providers](guide/glossary#provider)\n * for use with animations. See [Animations](guide/animations).\n *
@publicApi\n */\n@NgModule({\n exports: [BrowserModule],\n providers:
BROWSER_ANIMATIONS_PROVIDERS,\n})\nexport class BrowserAnimationsModule {\n /**\n * Configures
the module based on the specified object.\n *\n * @param config Object used to configure the behavior of the
`BrowserAnimationsModule`.\n * @see `BrowserAnimationsModuleConfig`\n *\n * @usageNotes\n * When
registering the `BrowserAnimationsModule`, you can use the `withConfig`\n
 * function as follows:\n * ```\n * @NgModule({\n * imports:
[BrowserAnimationsModule.withConfig(config)]\n * })\n * class MyNgModule {\n * ```\n * }\n static
withConfig(config: BrowserAnimationsModuleConfig):\n ModuleWithProviders<BrowserAnimationsModule>
{\n return {\n ngModule: BrowserAnimationsModule,\n providers: config.disableAnimations ?
BROWSER_NOOP_ANIMATIONS_PROVIDERS :\n
BROWSER_ANIMATIONS_PROVIDERS\n };\n }\n}\n\n/**\n * A null player that must be imported to allow
disabling of animations.\n * @publicApi\n */\n@NgModule({\n exports: [BrowserModule],\n providers:
BROWSER_NOOP_ANIMATIONS_PROVIDERS,\n})\nexport class NoopAnimationsModule {\n /**\n *\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n export
{BrowserAnimationBuilder as BrowserAnimationBuilder,\n
BrowserAnimationFactory as BrowserAnimationFactory} from './animation_builder';\n export {AnimationRenderer
as AnimationRenderer, AnimationRendererFactory as AnimationRendererFactory} from
'./animation_renderer';\n export {InjectableAnimationEngine as InjectableAnimationEngine} from
'./providers';\n /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code
is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n export * @module\n export * @description\n Entry point for all animation APIs of the animation browser package.\n }\n export {BrowserAnimationsModule, BrowserAnimationsModuleConfig, NoopAnimationsModule} from
'./module';\n export {ANIMATION_MODULE_TYPE} from './providers';\n export * from
'./private_export';\n /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source
code is governed by an MIT-style license that can be\n * found in
the LICENSE file at https://angular.io/license\n */\n export * @module\n export * @description\n Entry point for all
public APIs of this package.\n }\n export * from './src/animations';\n /**\n * @license\n * Copyright Google LLC
All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in
the LICENSE file at https://angular.io/license\n */\n // This file is not used to build this module. It is only used
during editing\n // by the TypeScript language service and during build for verification. `ngc`\n // replaces this file
with production index.ts when it rewrites private symbol\n // names.\n export * from './public_api';\n /**\n *\n * Generated bundle index. Do not edit.\n */\n export * from
'./index';\n },\n 'names': ['AnimationEngine', 'WebAnimationsStyleNormalizer', 'AnimationStyleNormalizer', 'DomR
endererFactory2', 'WebAnimationsDriver', 'NoopAnimationDriver'],\n 'mappings': ';;;;;;;;;;AAAA;;;;;;;;;MAcA,gCA
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gB;IAC3D,YAAoB,GAAG,EAAU,SAA4B;QACnE,KAAC,EAAE,CAAC;QADU,QAAG,GAAG,GAAG,CAAQ;

```

QAAU,cAAS,GAAT,SAAS,CAAmB;KAEPe;IAED,MAAM,CAAC,OAAy,EAAE,OAA0B;QAC7C,OAAO,IAAI,uBAAuB,CAAC,IAAI,CAAC,GAAG,EAAE,OAAO,EAAE,OAAO,IAAI,EAAE,EAAE,IAAI,CAAC,SAAS,CAAC,CAAC;KACtF;CACF;MAEY,uBAAuB;IAIIC,YACW,EAAU,EAAS,OAAy,EAAE,OAAyB,EACzD,SAA4B;QAD7B,OAAE,GAAG,EAAE,CAAQ;QAAS,YAAO,GAAP,OAAO,CAAK;QAC9B,cAAS,GAAT,SAAS,CAAmB;QALjC,iBAAy,GAAY,IAAI,CAAC;QACzC,aAAQ,GAAG,KAAC,CAAC;QASeIB,cAAS,GAAG,CAAC,CAAC;QAJEnB,IAAI,CAAC,QAAQ,CAAC,QAAQ,EAAE,OAAO,CAAC,CAAC;KACIC;IAEO,OAAO,CAAC,SAAiB,EAAE,QAA6B;QAC9D,OAAO,IAAI,CAAC,SAAS,CAAC,MAAM,CAAC,IAAI,CAAC,OAAO,EAAE,KAAC,IAAI,CAAC,EAAE,IAAI,SAAS,EAAE,EAAE,QAAQ,CAAC,CAAC;KACnF;IAEO,QAAQ,CAAC,OAAe,EAAE,GAAG,IAAW;QAC9C,OAAO,qBAAqB,CAAC,IAAI,CAAC,SAAS,EAAE,IAAI,CAAC,OAAO,EAAE,IAAI,CAAC,EAAE,EAAE,OAAO,EAAE,IAAI,CAAC,CAAC;KACpF;IAED,MAAM,CAAC,EAAc;QACnB,IAAI,CAAC,OAAO,CAAC,MAAM,EAAE,EAAE,CAAC,CAAC;KAC1B;IAED,OAAO,CAAC,EAAc;QACpB,IAAI,CAAC,OAAO,CAAC,OAAO,EAAE,EAAE,CAAC,CAAC;KAC3B;IAED,SAAS,CAAC,EAAc;QACtB,IAAI,CAAC,OAAO,CAAC,SAAS,EAAE,EAAE,CAAC,CAAC;KAC7B;IAED,IAAI;QACF,IAAI,CAAC,QAAQ,CAAC,MAAM,CAAC,CAAC;KACvB;IAED,UAAU;QACR,OAAO,IAAI,CAAC,QAAQ,CAAC;KACtB;IAED,IAAI;QACF,IAAI,CAAC,QAAQ,CAAC,MAAM,CAAC,CAAC;QACtB,IAAI,CAAC,QAAQ,GAAG,IAAI,CAAC;KACtB;IAED,KAAC;QACH,IAAI,CAAC,QAAQ,CAAC,OAAO,CAAC,CAAC;KACxB;IAED,OAAO;QACL,IAAI,CAAC,QAAQ,CAAC,SAAS,CAAC,CAAC;KAC1B;IAED,MAAM;QACJ,IAAI,CAAC,QAAQ,CAAC,QAAQ,CAAC,CAAC;KACzB;IAED,OAAO;QACL,IAAI,CAAC,QAAQ,CAAC,SAAS,CAAC,CAAC;KAC1B;IAED,KAAC;QACH,IAAI,CAAC,QAAQ,CAAC,OAAO,CAAC,CAAC;QACvB,IAAI,CAAC,QAAQ,GAAG,KAAC,CAAC;KACvB;IAED,WAAW,CAAC,CAAS;QACnB,IAAI,CAAC,QAAQ,CAAC,aAAa,EAAE,CAAC,CAAC,CAAC;KACjC;IAED,WAAW;;QACT,OAAO,MAAA,MAAA,IAAI,CAAC,SAAS,CAAC,MAAM,CAAC,OAAO,CAAC,CAAC,IAAI,CAAC,EAAE,CAAC,0CAAE,WAAW,EAAE,mCAAI,CAAC,CAAC;KACpE;CAGF;AAED,SAAS,qBAAqB,CAC1B,QA A2B,EAAE,OAAy,EAAE,EAAU,EAAE,OAAe,EAAE,IAAW;IACrF,OAAO,QAAQ,CAAC,WAAW,CAAC,OAAO,EAAE,KAAC,EAAE,IAAI,OAAO,EAAE,EAAE,IAAI,CAAC,CAAC;AACnE;;ACHHA,MAAM,gBAAGB,GAAG,GAAG,CAAC;AAC7B,MAAM,uBAAuB,GAAG,YAAy,CAAC;MASHC,wBAAwB;IAQnC,YACY,QAA0B,EAAU,MAAuB,EAAU,KAAa;QAAlF,aAAQ,GAAR,QAAQ,CAAKB;QAAU,WAAM,GAAN,MAAM,CAAiB;QAAU,UAAK,GAAL,KAAC,CAAQ;QARtF,eAAU,GAAG,CAAC,CAAC;QACvB,iBAAy,GAAG,CAAC,CAAC;QACzB,8BAAyB,GAA6B,EAAE,CAAC;QACzD,mBAAC,GAAG,IAAI,GAAG,EAAoC,CAAC;QAC7D,kBAAa,GAAG,CAAC,CAAC;QACIB,YAAO,GAAiB,OAAO,CAAC,OAAO,CAAC,CAAC,CAAC,CAAC;QAIjD,MAAM,CAAC,iBAAiB,GAAG,CAAC,OAAy,EAAE,QAAmB;;YAK3D,MAAM,UAAU,GAAG,QAAQ,aAAR,QAAQ,uBAAR,QAAQ,CAAE,UAAU,CAAC,OAAO,CAAC,CAAC;YACjD,IAAI,UAAU,EAAE;gBACd,QAAQ,CAAC,WAAW,CAAC,UAAU,EAAE,OAAO,CAAC,CAAC;aAC3C;SACF,CAAC;KACH;IAED,cAAc,CAAC,WAAgB,EAAE,IAAmB;QACID,MAAM,kBAAkB,GAAG,EAAE,CAAC;;QAI9B,MAAM,QAAQ,GAAG,IAAI,CAAC,QAAQ,CAAC,cAAc,CAAC,WAAW,EAAE,IAAI,CAAC,CAAC;QACjE,IAAI,CAAC,WAAW,IAAI,CAAC,IAAI,IAAI,CAAC,IAAI,CAAC,IAAI,IAAI,CAAC,IAAI,CAAC,IAAI,CAAC,WAAW,CAAC,EAAE;YACIE,IAAI,QAAQ,GAAG,IAAI,CAAC,cAAc,CAAC,GAAG,CAAC,QAAQ,CAAC,CAAC;YACIF,IAAI,CAAC,QAAQ,EAAE;gBACb,QAAQ,GAAG,IAAI,qBAAqB,CAAC,kBAAkB,EAAE,QAAQ,EAAE,IAAI,CAAC,MAAM,CAAC,CAAC;;gBAEhF,IAAI,CAAC,cAAc,CAAC,GAAG,CAAC,QAAQ,EAAE,QAAQ,CAAC,CAAC;aAC7C;YACD,OAAO,QAAQ,CAAC;SACjB;QAED,MAAM,WAAW,GAAG,IAAI,CAAC,EAAE,CAAC;QAC5B,MAAM,WAAW,GAAG,IAAI,CAAC,EAAE,GAAG,GAAG,GAAG,IAAI,CAAC,UAAU,CAAC;QACpD,IAAI,CAAC,UAAU,EAAE,CAAC;QAEIB,IAAI,CAAC,MAAM,CAAC,QAAQ,CAAC,WAAW,EAAE,WAAW,CAAC,CAAC;QAE/C,MAAM,eAAe,GAAG,CAAC,OAAuC;YAC9D,IAAI,KAAC,CAAC,OAAO,CAAC,OAAO,CAAC,EAAE;gBAC1B,OAAO,CAAC,OAAO,CAAC,eAAe,CAAC,CAAC;aACIC;iBAAM;gBACL,IAAI,CAAC,MAAM,CAAC,eAAe,CAAC,WAAW,EAAE,WAAW,EAAE,WAAW,EAAE,OAAO,CAAC,IAAI,EAAE,OAAO,CAAC,CAAC;aAC3F;SACF,CAAC;QACF,MAAM,iBAAiB,GAAG,IAAI,CAAC,IAAI,CAAC,WAAW,CAAqC,CAAC;QACrF,iBAAiB,CAAC,OAAO,CAAC,eAAe,CAAC,CAAC;QAE3C,OAAO,IAAI,iBAAiB,CAAC,IAAI,EAAE,WAAW,EAAE,QAAQ,EAAE,IAAI,CAAC,MAAM,CAAC,CAAC;KACxE;IAED,KAAC;QACH,IAAI,CAAC,aAAa,EAAE,CAAC;QACrB,IAAI,IAAI,CAAC,QAAQ,CAAC,KAAC,EAAE;YACvB,IAAI,CAAC,QAAQ,CAAC,KAAC,EAAE,CAAC;SACvB;KACF;I

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Found

in path(s):

\* /platform-browser-13-2-7-tgz/package/fesm2015/animations.mjs.map

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\* /platform-browser-13-2-7-tgz/package/animations/animations.d.ts

\* /platform-browser-13-2-7-tgz/package/platform-browser.d.ts

\* /platform-browser-13-2-7-tgz/package/testing/testing.d.ts

## 1.741 jasmine/jasmine 4.0.1

### 1.741.1 Available under license :

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## 1.742.1 Available under license :

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 */
```

Found in path(s):

```
* /compiler-13-2-7-tgz/package/fesm2015/compiler.mjs
* /compiler-13-2-7-tgz/package/fesm2020/testing.mjs
* /compiler-13-2-7-tgz/package/fesm2015/testing.mjs
* /compiler-13-2-7-tgz/package/fesm2020/compiler.mjs
```

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# 1.743 angular-animations 13.2.7

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Found in path(s):

```
* /animations-13-2-7-tgz/package/esm2020/src/animation_event.mjs
* /animations-13-2-7-tgz/package/esm2020/browser/testing/public_api.mjs
* /animations-13-2-7-tgz/package/esm2020/browser/src/errors.mjs
* /animations-13-2-7-tgz/package/esm2020/src/animation_metadata.mjs
* /animations-13-2-7-tgz/package/esm2020/src/animations.mjs
* /animations-13-2-7-tgz/package/esm2020/browser/src/dsl/style_normalization/animation_style_normalizer.mjs
* /animations-13-2-7-tgz/package/esm2020/src/players/animation_group_player.mjs
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* /animations-13-2-7-tgz/package/esm2020/index.mjs
* /animations-13-2-7-tgz/package/esm2020/browser/testing/src/testing.mjs
* /animations-13-2-7-tgz/package/esm2020/browser/testing/index.mjs
* /animations-13-2-7-tgz/package/esm2020/browser/src/render/animation_driver.mjs
* /animations-13-2-7-tgz/package/esm2020/browser/src/error_helpers.mjs
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```

```

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```

Found in path(s):

```

* /animations-13-2-7-tgz/package/fesm2020/browser.mjs
* /animations-13-2-7-tgz/package/fesm2015/browser.mjs
* /animations-13-2-7-tgz/package/fesm2015/animations.mjs

```

\* /animations-13-2-7-tgz/package/fesm2015/browser/testing.mjs

\* /animations-13-2-7-tgz/package/fesm2020/animations.mjs

\* /animations-13-2-7-tgz/package/fesm2020/browser/testing.mjs

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```
{"version":3,"file":"testing.mjs","sources":["../../../../../packages/animations/browser/testing/src/mock_animation_driver.ts","../../../../../packages/animations/browser/testing/src/testing.ts","../../../../../packages/animations/browser/testing/public_api.ts","../../../../../packages/animations/browser/testing/index.ts","../../../../../packages/animations/browser/testing/testing.ts"],"sourcesContent":["/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\nimport {AnimationPlayer, AUTO_STYLE, NoopAnimationPlayer, StyleData} from '@angular/animations';\nimport {AnimationDriver, allowPreviousPlayerStylesMerge as allowPreviousPlayerStylesMerge, containsElement as containsElement, getParentElement as getParentElement, invokeQuery as
```

```
invokeQuery, validateStyleProperty as validateStyleProperty} from '@angular/animations/browser';\n\n/**\n * @publicApi\n */\nexport class MockAnimationDriver implements AnimationDriver {\n static log: AnimationPlayer[] = [];\n\n validateStyleProperty(prop: string): boolean {\n return validateStyleProperty(prop);\n }\n\n matchesElement(_element: any, _selector: string): boolean {\n return false;\n }\n\n containsElement(elm1: any, elm2: any): boolean {\n return containsElement(elm1, elm2);\n }\n\n getParentElement(element: unknown): unknown {\n return getParentElement(element);\n }\n\n query(element: any, selector: string, multi: boolean): any[] {\n return invokeQuery(element, selector, multi);\n }\n\n computeStyle(element: any, prop: string, defaultValue?: string): string {\n return defaultValue || '';\n }\n\n animate(element: any, keyframes: {[key: string]: string|number}[], duration: number, delay: number, easing: string, previousPlayers: any[] = []): MockAnimationPlayer {\n const player = new MockAnimationPlayer(element, keyframes, duration, delay, easing, previousPlayers);\n MockAnimationDriver.log.push(<AnimationPlayer>player);\n return player;\n }\n\n /**\n * @publicApi\n */\nexport class MockAnimationPlayer extends NoopAnimationPlayer {\n private __finished = false;\n private __started = false;\n public previousStyles: {[key: string]: string|number} = {};\n private _onInitFns: (() => any)[] = [];\n public currentSnapshot: StyleData = {};\n\n constructor(element: any, public keyframes: {[key: string]: string|number}[], public duration: number, public delay: number, public easing: string, public previousPlayers: any[]) {\n super(duration, delay);\n\n if (allowPreviousPlayerStylesMerge(duration, delay)) {\n previousPlayers.forEach(player => {\n if (player instanceof MockAnimationPlayer) {\n const styles = player.currentSnapshot;\n\n Object.keys(styles).forEach(prop => this.previousStyles[prop] = styles[prop]);\n }\n });\n }\n\n /**\n * @internal\n */\n onInit(fn: () => any) {\n this._onInitFns.push(fn);\n }\n\n /**\n * @internal\n */\n override init() {\n super.init();\n this._onInitFns.forEach(fn => fn());\n this._onInitFns = [];\n }\n\n override reset() {\n super.reset();\n this.__started = false;\n }\n\n override finish(): void {\n super.finish();\n this.__finished = true;\n }\n\n override destroy(): void {\n super.destroy();\n this.__finished = true;\n }\n\n /**\n * @internal\n */\n triggerMicrotask() {\n }\n\n override play(): void {\n super.play();\n this.__started = true;\n }\n\n override hasStarted() {\n return this.__started;\n }\n\n beforeDestroy() {\n const captures: StyleData = {};\n\n Object.keys(this.previousStyles).forEach(prop => {\n captures[prop] = this.previousStyles[prop];\n });\n\n if (this.hasStarted()) {\n // when assembling the captured styles, it's important that\n // we build the keyframe styles in the following order:\n // {other styles within keyframes, ... previousStyles}\n this.keyframes.forEach(kf => {\n Object.keys(kf).forEach(prop => {\n if (prop !== 'offset') {\n captures[prop] = this.__finished ? kf[prop] : AUTO_STYLE;\n }\n });\n });\n this.currentSnapshot = captures;\n }\n }\n\n /**\n * @license\n * Copyright Google LLC All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\nexport
```

Found

in path(s):

\* /animations-13-2-7-tgz/package/fesm2015/browser/testing.mjs.map

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```
{ "version": 3, "file": "animations.mjs", "sources": ["../..../packages/animations/src/animation_builder.ts", "../..../packages/animations/src/animation_metadata.ts", "../..../packages/animations/src/util.ts", "../..../packages/animations/src/players/animation_player.ts", "../..../packages/animations/src/players/animation_group_player.ts", "../..../packages/animations/src/private_export.ts", "../..../packages/animations/src/animations.ts", "../..../packages/animations/public_api.ts", "../..../packages/animations/index.ts", "../..../packages/animations/animations.ts"], "sourcesContent": ["/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n https://angular.io/license\n */\nimport { AnimationMetadata, AnimationOptions }\n from './animation_metadata';\nimport { AnimationPlayer } from './players/animation_player';\n\n/**\n * An injectable service that produces an animation sequence programmatically within an\n * Angular component or directive.\n * Provided by the `BrowserAnimationsModule` or `NoopAnimationsModule`.\n *\n * @usageNotes\n *\n * To use this service, add it to your component or directive as a dependency.\n * The service is instantiated along with your component.\n *\n * Apps do not typically need to create their own animation players, but if you\n * do need to, follow these steps:\n *\n * 1. Use the\n<code>[AnimationBuilder.build](api/animations/AnimationBuilder#build)()</code> method\n * to create a programmatic animation. The method returns an `AnimationFactory`\n * instance.\n *\n * 2. Use the factory object to create an `AnimationPlayer` and attach it to a DOM\n * element.\n *\n * 3. Use the player object to control the animation programmatically.\n *\n * For example:\n *\n * ```ts\n * // import the service from BrowserAnimationsModule\n * import { AnimationBuilder } from '@angular/animations';\n * // require the service as a dependency\n * class MyCmp {\n * constructor(private _builder: AnimationBuilder) {}\n *\n * makeAnimation(element: any) {\n * // first define a reusable animation\n * const myAnimation = this._builder.build([\n * style({ width: 0 }),\n * animate(1000, style({ width: '100px' }))\n *]);\n *\n * // use the returned factory object to create a player\n * const player = myAnimation.create(element);\n *\n * player.play();\n * }\n *\n * ```\n *\n * @publicApi\n */\nexport abstract class AnimationBuilder {\n /**\n * Builds a factory for producing a defined animation.\n *\n * @param animation A reusable animation definition.\n *\n * @returns A factory object that can create a player for the defined animation.\n *\n * @see `animate()`\n */\n abstract build(animation: AnimationMetadata | AnimationMetadata[]): AnimationFactory;\n}\n\n/**\n * A factory object returned from the\n<code>[AnimationBuilder.build](api/animations/AnimationBuilder#build)()</code>\n * method.\n *\n * @publicApi\n */\nexport abstract class AnimationFactory {\n /**\n * Creates an `AnimationPlayer` instance for the reusable animation defined by\n * the\n<code>[AnimationBuilder.build](api/animations/AnimationBuilder#build)()</code>\n * method that created this factory and attaches the new player a DOM element.\n *\n * @param element The DOM element to which to attach the player.\n *\n * @param options A set of options that can include a time delay and\n * additional developer-defined parameters.\n *\n * @abstract\n */\n abstract create(element: any, options?: AnimationOptions): AnimationPlayer;\n}\n\n", "/*\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n https://angular.io/license\n */\n\n/**\n * Represents a set of CSS styles for use in an animation style.\n *\n * @export\n */\nexport interface StyleData {\n [key: string]: string | number;\n}\n\n/**\n * Represents animation-step timing parameters for an animation step.\n *\n * @see `animate()`\n *\n * @publicApi\n */\nexport declare type AnimateTimings = {\n /**\n * The full duration of an animation step. A number and optional time unit,\n * such as `1s` or `10ms` for one second and 10 milliseconds, respectively.\n *\n * The default unit is milliseconds.\n */\n duration: number;\n /**\n * The delay in applying an animation step. A number and optional time unit.\n *\n * The default unit is milliseconds.\n */\n delay: number;\n /**\n * An easing style that
```

controls how an animations step accelerates and decelerates during its run time. An easing function such as `cubic-bezier`, or one of the following constants: `ease-in`, `ease-out`, `ease-in-and-out`

easing: string | null

@description Options that control animation styling and timing.

The following animation functions accept `AnimationOptions` data:

- `transition()`
- `sequence()`
- `{@link animations/group group}()`
- `query()`
- `animation()`
- `useAnimation()`
- `animateChild()`

Programmatic animations built using the `AnimationBuilder` service also make use of `AnimationOptions`.

@publicApi

export declare interface AnimationOptions {

/\*\* Sets a time-delay for initiating an animation action. A number and optional time unit, such as "1s" or "10ms" for one second and 10 milliseconds, respectively. The default unit is milliseconds. Default value is 0, meaning no delay.

delay?: number|string;

/\*\* A set of developer-defined parameters that modify styling and timing when an animation action starts. An array of key-value pairs, where the provided value is used as a default.

params?: {[name: string]: any};

/\*\* Adds duration options to control animation styling and timing for a child animation.

/\*\*

@see animateChild()

/\*\*

@publicApi

export declare interface AnimateChildOptions extends AnimationOptions {

duration?: number|string;

/\*\*

@description Constants for the categories of parameters that can be defined for animations.

A corresponding function defines a set of parameters for each category, and collects them into a corresponding `AnimationMetadata` object.

/\*\*

@publicApi

export const enum AnimationMetadataType {

/\*\* Associates a named animation state with a set of CSS styles.

State = 0,

/\*\* Data for a transition from one animation state to another.

See transition()

Transition = 1,

/\*\* Contains a set of animation steps.

See sequence()

Sequence = 2,

/\*\* Contains a set of animation steps.

See {@link animations/group group}()

Group = 3,

/\*\* Contains an animation step.

See animate()

Animate = 4,

/\*\* Contains a set of animation steps.

See keyframes()

Keyframes = 5,

/\*\* Contains a set of CSS property-value pairs into a named style.

See style()

Style = 6,

/\*\* Associates an animation with an entry trigger that can be attached to an element.

See trigger()

Trigger = 7,

/\*\* Contains a re-usable animation.

See animation()

Reference = 8,

/\*\* Contains data to use in executing child animations returned by a query.

See animateChild()

AnimateChild = 9,

/\*\* Contains animation parameters for a re-usable animation.

See useAnimation()

AnimateRef = 10,

/\*\* Contains child-animation query data.

See query()

Query = 11,

/\*\* Contains data for staggering an animation sequence.

See stagger()

Stagger = 12

/\*\* Specifies automatic styling.

/\*\*

@publicApi

export const AUTO\_STYLE = '\*';

/\*\* Base for animation data structures.

/\*\*

@publicApi

export interface AnimationMetadata {

type: AnimationMetadataType;

/\*\* Contains an animation trigger. Instantiated and returned by the trigger() function.

/\*\*

@publicApi

export interface AnimationTriggerMetadata extends AnimationMetadata {

/\*\* The trigger name, used to associate it with an element. Unique within the component.

name: string;

/\*\* An animation definition object, containing an array of state and transition declarations.

definitions: AnimationMetadata[];

/\*\* An options object containing a delay and developer-defined parameters that provide styling defaults and can be overridden on invocation. Default delay is 0.

options: {params?: {[name: string]: any}}|null;

/\*\*

Encapsulates an animation state by associating a state name with a set of CSS styles.

Instantiated and returned by the state()(api/animations/state) function.

/\*\*

@publicApi

export interface AnimationStateMetadata extends AnimationMetadata {

/\*\* The state name, unique within the component.

name: string;

/\*\* The CSS styles associated with this state.

styles: AnimationStyleMetadata;

/\*\* An options object containing developer-defined parameters that provide styling defaults and can be overridden on invocation.

options?: {params: {[name: string]: any}};

/\*\*

Encapsulates an animation transition. Instantiated and returned by the transition() function.

/\*\*

@publicApi

export interface AnimationTransitionMetadata extends AnimationMetadata {

/\*\* An expression that describes a state change.

expr: string;

((fromState: string, toState: string,

element?: any;\n     params?: {[key: string]: any}) => boolean);\n /\*\*\n \* One or more animation objects to which this transition applies.\n \*/\n animation: AnimationMetadata|AnimationMetadata[];\n /\*\*\n \* An options object containing a delay and\n \* developer-defined parameters that provide styling defaults and\n \* can be overridden on invocation. Default delay is 0.\n \*/\n options: AnimationOptions|null;\n}\n\n/\*\*\n \* Encapsulates a reusable animation, which is a collection of individual animation steps.\n \* Instantiated and returned by the `animation()` function, and\n \* passed to the `useAnimation()` function.\n \*/\n \* @publicApi\n \*/\nexport interface AnimationReferenceMetadata extends AnimationMetadata {\n /\*\*\n \* One or more animation step objects.\n \*/\n animation: AnimationMetadata|AnimationMetadata[];\n /\*\*\n \* An options object containing a delay and\n \* developer-defined parameters that provide styling defaults and\n \* can be overridden on invocation. Default delay is 0.\n \*/\n options: AnimationOptions|null;\n}\n\n/\*\*\n \* Encapsulates an animation query. Instantiated and returned by\n \* the `query()` function.\n \*/\n \* @publicApi\n \*/\nexport interface AnimationQueryMetadata extends AnimationMetadata {\n /\*\*\n \* The CSS selector for this query.\n \*/\n selector: string;\n /\*\*\n \* One or more animation step objects.\n \*/\n animation: AnimationMetadata|AnimationMetadata[];\n /\*\*\n \* A query options object.\n \*/\n options: AnimationQueryOptions|null;\n}\n\n/\*\*\n \* Encapsulates a keyframes sequence. Instantiated and returned by\n \* the `keyframes()` function.\n \*/\n \* @publicApi\n \*/\nexport interface AnimationKeyframesSequenceMetadata extends AnimationMetadata {\n /\*\*\n \* An array of animation styles.\n \*/\n steps: AnimationStyleMetadata[];\n}\n\n/\*\*\n \* Encapsulates an animation style. Instantiated and returned by\n \* the `style()` function.\n \*/\n \* @publicApi\n \*/\nexport interface AnimationStyleMetadata extends AnimationMetadata {\n /\*\*\n \* A set of CSS style properties.\n \*/\n styles: '\*'|{[key: string]: string | number}|Array<{[key: string]: string | number}|'\*';\n /\*\*\n \* A percentage of the total animate time at which the style is to be applied.\n \*/\n offset: number|null;\n}\n\n/\*\*\n \* Encapsulates an animation step. Instantiated and returned by\n \* the `animate()` function.\n \*/\n \* @publicApi\n \*/\nexport interface AnimationAnimateMetadata extends AnimationMetadata {\n /\*\*\n \* The timing data for the step.\n \*/\n timings: string|number|AnimateTimings;\n /\*\*\n \* A set of styles used in the step.\n \*/\n styles: AnimationStyleMetadata|AnimationKeyframesSequenceMetadata|null;\n}\n\n/\*\*\n \* Encapsulates a child animation, that can be run explicitly when the parent is run.\n \* Instantiated and returned by the `animateChild` function.\n \*/\n \* @publicApi\n \*/\nexport interface AnimationAnimateChildMetadata extends AnimationMetadata {\n /\*\*\n \* An options object containing a delay and\n \* developer-defined parameters that provide styling defaults and\n \* can be overridden on invocation. Default delay is 0.\n \*/\n options: AnimationOptions|null;\n}\n\n/\*\*\n \* Encapsulates a reusable animation.\n \* Instantiated and returned by the `useAnimation()` function.\n \*/\n \* @publicApi\n \*/\nexport interface AnimationAnimateRefMetadata extends AnimationMetadata {\n /\*\*\n \* An animation reference object.\n \*/\n animation: AnimationReferenceMetadata;\n /\*\*\n \* An options object containing a delay and\n \* developer-defined parameters that provide styling defaults and\n \* can be overridden on invocation. Default delay is 0.\n \*/\n options: AnimationOptions|null;\n}\n\n/\*\*\n \* Encapsulates an animation sequence.\n \* Instantiated and returned by the `sequence()` function.\n \*/\n \* @publicApi\n \*/\nexport interface AnimationSequenceMetadata extends AnimationMetadata {\n /\*\*\n \* An array of animation step objects.\n \*/\n steps: AnimationMetadata[];\n /\*\*\n \* An options object containing a delay and\n \* developer-defined parameters that provide styling defaults and\n \* can be overridden on invocation. Default delay is 0.\n \*/\n options: AnimationOptions|null;\n}\n\n/\*\*\n \* Encapsulates an animation group.\n \* Instantiated and returned by the `{@link animations/group group()}` function.\n \*/\n \* @publicApi\n \*/\nexport interface AnimationGroupMetadata extends AnimationMetadata {\n /\*\*\n \* One or more animation or style steps that form this group.\n \*/\n steps: AnimationMetadata[];\n /\*\*\n \* An options object containing a delay and\n \* developer-defined parameters that provide styling defaults and\n \* can be overridden on invocation. Default delay is 0.\n \*/\n options: AnimationOptions|null;\n}\n\n/\*\*\n \* Encapsulates animation query options.\n \* Passed to the `query()` function.\n \*/\n \* @publicApi\n \*/\nexport declare interface AnimationQueryOptions extends AnimationOptions {\n

```

/**\n * True if this query is optional, false if it is required. Default is false.\n * A required query throws an error
if no elements are retrieved when\n * the query is executed. An optional query does not.\n *\n */\n optional?:
boolean;\n /**\n * A maximum total number of results to return from the query.\n * If negative, results are
limited from the end of the query list towards the beginning.\n * By default, results are not limited.\n */\n limit?:
number;\n}\n\n/**\n * Encapsulates parameters for staggering the start times of a set of animation steps.\n *
Instantiated and returned by the `stagger()` function.\n *\n * @publicApi\n **/\nexport interface
AnimationStaggerMetadata extends AnimationMetadata {\n /**\n * The timing data for the steps.\n */\n timings:
string|number;\n /**\n * One or more animation steps.\n */\n animation:
AnimationMetadata|AnimationMetadata[];\n}\n\n/**\n * Creates a named animation trigger, containing a list of
[state()](api/animations/state)\n
* and `transition()` entries to be evaluated when the expression\n * bound to the trigger changes.\n *\n * @param
name An identifying string.\n * @param definitions An animation definition object, containing an array of\n *
[state()](api/animations/state) and `transition()` declarations.\n *\n * @return An object that encapsulates the
trigger data.\n *\n * @usageNotes\n * Define an animation trigger in the `animations` section of `@Component`
metadata.\n * In the template, reference the trigger by name and bind it to a trigger expression that\n * evaluates to a
defined animation state, using the following format:\n *\n * `[@triggerName]="expression"`\n *\n * Animation
trigger bindings convert all values to strings, and then match the\n * previous and current values against any linked
transitions.\n * Booleans can be specified as `1` or `true` and `0` or `false`.\n *\n * ### Usage Example\n *\n * The
following example creates an animation trigger reference
based on the provided\n * name value.\n * The provided animation value is expected to be an array consisting of
state and\n * transition declarations.\n *\n * ```typescript\n * @Component({\n * selector: 'my-component',\n *
templateUrl: 'my-component-tpl.html',\n * animations: [\n * trigger('myAnimationTrigger', [\n *
state(...),\n * state(...),\n * transition(...),\n * transition(...)\n *])\n *]\n * })\n * class MyComponent
{\n * myStatusExp = 'something';\n * }\n * ```\n *\n * The template associated with this component makes use
of the defined trigger\n * by binding to an element within its template code.\n *\n * ```html\n * <!-- somewhere
inside of my-component-tpl.html -->\n * <div [@myAnimationTrigger]="myStatusExp">...</div>\n * ```\n *\n *
Using an inline function\n * The `transition` animation method also supports reading an inline function which
can decide\n * if its associated animation should be run.\n *\n * ```typescript\n
* // this method is run each time the `myAnimationTrigger` trigger value changes.\n * function
myInlineMatcherFn(fromState: string, toState: string, element: any, params: {[key:\n string]: any}): boolean {\n *
// notice that `element` and `params` are also available here\n * return toState == 'yes-please-animate';\n * }\n *\n *
@Component({\n * selector: 'my-component',\n * templateUrl: 'my-component-tpl.html',\n * animations: [\n *
trigger('myAnimationTrigger', [\n * transition(myInlineMatcherFn, [\n * // the animation sequence code\n *
])\n *])\n *]\n * })\n * class MyComponent {\n * myStatusExp = 'yes-please-animate';\n * }\n * ```\n
*\n * ### Disabling Animations\n * When true, the special animation control binding `@.disabled` binding
prevents\n * all animations from rendering.\n * Place the `@.disabled` binding on an element to disable\n *
animations on the element itself, as well as any inner animation triggers\n * within
the element.\n *\n * The following example shows how to use this feature:\n *\n * ```typescript\n *
@Component({\n * selector: 'my-component',\n * template: `\n * <div [@.disabled]="isDisabled">\n *
<div [@childAnimation]="exp"></div>\n * </div>\n * `, \n * animations: [\n * trigger('childAnimation',
[\n * // ... \n *])\n *]\n * })\n * class MyComponent {\n * isDisabled = true;\n * exp = '...';\n * }\n * ```\n
*\n * When `@.disabled` is true, it prevents the `@childAnimation` trigger from animating,\n * along with any inner
animations.\n *\n * ### Disable animations application-wide\n * When an area of the template is set to have
animations disabled,\n * **all** inner components have their animations disabled as well.\n * This means that you
can disable all animations for an app\n * by placing a host binding set on `@.disabled` on the topmost Angular
component.\n *\n * ```typescript\n * import {Component, HostBinding} from '@angular/core';\n
*\n * @Component({\n * selector: 'app-component',\n * templateUrl: 'app.component.html',\n * })\n * class
AppComponent {\n * @HostBinding('@.disabled')\n * public animationsDisabled = true;\n * }\n * ```\n *\n *

```



Overriding disablement of inner animations

- Despite inner animations being disabled, a parent animation can query() for inner elements located in disabled areas of the template and still animate them if needed. This is also the case for when a sub animation is queried by a parent and then later animated using animateChild().
- ### Detecting when an animation is disabled
- If a region of the DOM (or the entire application) has its animations disabled, the animation trigger callbacks still fire, but for zero seconds. When the callback fires, it provides an instance of an AnimationEvent. If animations are disabled, the .disabled flag on the event is true.

@publicApi

export function trigger(name: string, definitions:

AnimationMetadata[]): AnimationTriggerMetadata {  
 return {type: AnimationMetadataType.Trigger, name, definitions, options: {}};  
}

Defines an animation step that combines styling information with timing information.

@param timings Sets 'AnimateTimings' for the parent animation. A string in the format "duration [delay] [easing]".

- Duration and delay are expressed as a number and optional time unit, such as "1s" or "10ms" for one second and 10 milliseconds, respectively.
- The default unit is milliseconds.
- The easing value controls how the animation accelerates and decelerates during its runtime. Value is one of 'ease', 'ease-in', 'ease-out', 'ease-in-out', or a 'cubic-bezier()' function call.
- If not supplied, no easing is applied.

For example, the string "1s 100ms ease-out" specifies a duration of 1000 milliseconds, and delay of 100 ms, and the "ease-out" easing style, which decelerates near the

end of the duration.

@param styles Sets AnimationStyles for the parent animation. A function call to either style() or keyframes() that returns a collection of CSS style entries to be applied to the parent animation. When null, uses the styles from the destination state. This is useful when describing an animation step that will complete an animation; see "Animating to the final state" in transitions().

@returns An object that encapsulates the animation step.

@usageNotes

Call within an animation sequence(), {@link animations/group group()}, or transition() call to specify an animation step that applies given style data to the parent animation for a given amount of time.

### Syntax Examples

\*\*\*Timing examples\*\*\*

The following examples show various 'timings' specifications.

- animate(500): Duration is 500 milliseconds.
- animate("1s"): Duration is 1000 milliseconds.
- animate("100ms 0.5s"): Duration is 100 milliseconds, delay is 500 milliseconds.
- animate("5s ease-in"): Duration is 5000 milliseconds, easing in.
- animate("5s 10ms cubic-bezier(.17,.67,.88,.1)"): Duration is 5000 milliseconds, delay is 10 milliseconds, easing according to a bezier curve.

\*\*\*Style examples\*\*\*

The following example calls style() to set a single CSS style.

```
typescript
animate(500, style({ background: 'red' }));
```

The following example calls keyframes() to set a CSS style to different values for successive keyframes.

```
typescript
animate(500, keyframes([
 style({ background: 'blue' }),
 style({ background: 'red' })
]));
```

@publicApi

export function animate(timings: string|number, styles: AnimationStyleMetadata|AnimationKeyframesSequenceMetadata|null = null): AnimationAnimateMetadata {  
 return {type: AnimationMetadataType.Animate, styles, timings};  
}

@description Defines a list of animation steps to be run in parallel.

@param steps An array of animation step objects.

- When steps are defined by style() or animate() function calls, each call within the group is executed instantly.
- To specify offset styles to be applied at a later time, define steps with keyframes(), or use animate() calls with a delay value.

For example:

```
typescript
group([
 animate("1s", style({ background: 'black' })),
 animate("2s", style({ color: 'white' }))
]);
```

@param options An options object containing a delay and developer-defined parameters that provide styling defaults and can be overridden on invocation.

@return An object that encapsulates the group data.

@usageNotes

Grouped animations are useful when a series of styles must be animated at different starting times and closed off at different ending times.

When called

within a sequence() or a transition() call, does not continue to the next instruction until all of the inner animation steps have completed.

@publicApi

export function group(steps: AnimationMetadata[], options: AnimationOptions|null = null): AnimationGroupMetadata {  
 return {type:

AnimationMetadataType.Group, steps, options};  
}

Defines a list of animation steps to be run sequentially, one by one.

@param steps An array of animation step objects.

- Steps defined by style()

calls apply the styling data immediately.

- `animate()` calls apply the styling data over time as specified by the timing data.

```

typescript
sequence([
 style({ opacity: 0 }),
 animate("1s",
 style({ opacity: 1 })),
])

```

`@param options` An options object containing a delay and developer-defined parameters that provide styling defaults and can be overridden on invocation.

`@return` An object that encapsulates the sequence data.

`@usageNotes` When you pass an array of steps to a `transition()` call, the steps run sequentially by default. Compare this to the `{@link animations/group group()}` call, which runs animation steps in parallel.

When a sequence is used within a `{@link animations/group group()}` or a `transition()` call, execution continues to the next instruction only after each of the inner animation steps have completed.

`@publicApi`

```

**/nexport function sequence(
 steps:
 AnimationMetadata[],
 options: AnimationOptions|null = null): AnimationSequenceMetadata {
 return {type:
 AnimationMetadataType.Sequence, steps, options};
}

```

Declares a key/value object containing CSS properties/styles that can then be used for an animation [`state``](`api/animations/state`), within an animation `sequence``, or as styling data for calls to `animate()` and `keyframes()`.

`@param tokens` A set of CSS styles or HTML styles associated with an animation state.

The value can be any of the following:

- A key-value style pair associating a CSS property with a value.
- An array of key-value style pairs.
- An asterisk (`*`), to use auto-styling, where styles are derived from the element being animated and applied to the animation when it starts.
- Auto-styling can be used to define a state that depends on layout or other environmental factors.

`@return` An object that encapsulates the style data.

`@usageNotes` The following examples create animation styles that collect a set of CSS property values:

```

typescript
// string values for CSS properties
style({ background: "red", color: "blue" })
// numerical pixel values
style({ width: 100, height: 0 })

```

The following example uses auto-styling to allow an element to animate from a height of 0 up to its full height:

```

typescript
style({ height:
0 }),
animate("1s", style({ height: "*" }))

```

`@publicApi`

```

**/nexport function style(
 tokens:
 *|{[key: string]: string | number})
 Array<*|{[key: string]: string | number}>):

```

`AnimationStyleMetadata`

```

{
 return {type: AnimationMetadataType.Style, styles: tokens, offset: null};
}

```

Declares an animation state within a trigger attached to an element.

`@param name` One or more names for the defined state in a comma-separated string.

The following reserved state names can be supplied to define a style for specific use cases:

- `void`` You can associate styles with this name to be used when the element is detached from the application. For example, when an `ngIf`` evaluates to false, the state of the associated element is void.
- `*`` (asterisk) Indicates the default state. You can associate styles with this name to be used as the fallback when the state that is being animated is not declared within the trigger.

`@param styles` A set of CSS styles associated with this state, created using the `style()` function.

This set of styles persists on the element once the state has been reached.

`@param options` Parameters that can be passed to the state when it is invoked.

0 or more key-value pairs.

`@return` An object that encapsulates the new state data.

`@usageNotes` Use the `trigger()` function to register states to an animation trigger.

Use the `transition()` function to animate between states.

When a state is active within a component, its associated styles persist on the element, even when the animation ends.

`@publicApi`

```

**/nexport function state(
 name: string,
 styles: AnimationStyleMetadata,
 options?: {params: {[name:
string]: any}}): AnimationStateMetadata {
 return {type: AnimationMetadataType.State, name, styles,
options};
}

```

Defines a set of animation styles, associating each style with an optional `offset`` value.

`@param steps` A set of animation styles with optional offset data.

The optional `offset`` value for a style specifies a percentage of the total animation time at which that style is applied.

`@returns` An object that encapsulates the keyframes data.

`@usageNotes` Use with the `animate()` call. Instead of applying animations from the current state to the destination state, keyframes describe how each style entry is applied and at what point within the animation arc.

Compare [CSS Keyframe Animations]([https://www.w3schools.com/css/css3\\_animations.asp](https://www.w3schools.com/css/css3_animations.asp)).

#### Usage

In the following example, the offset values describe when each `backgroundColor`` value is applied. The color is red at the start, and changes to blue when 20% of the total time has elapsed.

```

typescript
// the provided offset

```

```

values\n * animate(`5s`, keyframes([\n * style({ backgroundColor: `red`, offset: 0 }),\n * style({
 backgroundColor: `blue`, offset: 0.2 }),\n * style({ backgroundColor: `orange`, offset: 0.3 }),\n * style({
 backgroundColor: `black`, offset: 1 })\n *]))\n * ``\n *\n * If there are no `offset` values specified in the style
 entries, the offsets\n * are calculated automatically.\n *\n * ``typescript\n * animate(`5s`, keyframes([\n * style({
 backgroundColor: `red` }) // offset = 0\n * style({ backgroundColor: `blue` }) // offset = 0.33\n * style({
 backgroundColor: `orange` }) // offset = 0.66\n * style({ backgroundColor: `black` }) // offset = 1\n *]))\n *
 *``\n *\n * @publicApi\n * /\nexport function keyframes(steps: AnimationStyleMetadata[]):
 AnimationKeyframesSequenceMetadata {\n return {type: AnimationMetadataType.Keyframes, steps};\n}\n\n/**\n * Declares an animation transition which is played when a certain specified condition is met.\n *\n * @param
 stateChangeExpr A string with a specific format or a function that specifies when the\n * animation transition
 should occur (see [State Change Expression](#state-change-expression)).\n *\n * @param steps One or more
 animation objects that represent the animation's instructions.\n *\n * @param options An options object that can be
 used to specify a delay for the animation or provide\n * custom parameters for it.\n *\n * @returns An object that
 encapsulates the transition data.\n *\n * @usageNotes\n *\n * ### State Change Expression\n *\n * The State
 Change Expression instructs Angular when to run the transition's animations, it can\n * either be\n * - a string with a
 specific syntax\n * - or a function that compares the previous and current state (value of the expression bound to\n *
 the element's trigger) and returns `true` if the transition should occur or `false` otherwise\n *\n * The string format
 can be:\n * - `fromState => toState`, which indicates that the transition's animations should occur then the\n *
 expression bound to the trigger's element goes from `fromState` to `toState`\n
 *\n * _Example:_\n *\n * ``typescript\n * transition('open => closed', animate('5s ease-out', style({ height: 0
 })))\n *\n * ``\n *\n * - `fromState <=> toState`, which indicates that the transition's animations should occur
 then\n * the expression bound to the trigger's element goes from `fromState` to `toState` or vice versa\n *\n *
 _Example:_\n *\n * ``typescript\n * transition('enabled <=> disabled', animate('1s cubic-bezier(0.8,0.3,0.1)'))\n
 *\n * ``\n *\n * - `:enter`/:leave`, which indicates that the transition's animations should occur when the\n *
 element enters or exists the DOM\n *\n * _Example:_\n *\n * ``typescript\n * transition(':enter', [\n *
 style({ opacity: 0 }),\n * animate('500ms', style({ opacity: 1 })))\n *])\n *\n * ``\n *\n * -
 `:increment`/:decrement`, which indicates that the transition's animations should occur when\n * the numerical
 expression bound to the trigger's element
 has increased in value or decreased\n *\n * _Example:_\n *\n * ``typescript\n * transition(':increment',
 query('@counter', animateChild()))\n *\n * ``\n *\n * - a sequence of any of the above divided by commas, which
 indicates that transition's animations\n * should occur whenever one of the state change expressions matches\n *\n *
 _Example:_\n *\n * ``typescript\n * transition(':increment, * => enabled, :enter', animate('1s ease',
 keyframes([\n * style({ transform: 'scale(1)', offset: 0}),\n * style({ transform: 'scale(1.1)', offset: 0.7}),\n
 * style({ transform: 'scale(1)', offset: 1 })))\n *]))\n *\n * ``\n *\n * Also note that in such context:\n * -
 `void` can be used to indicate the absence of the element\n * - asterisks can be used as wildcards that match any
 state\n * - (as a consequence of the above, `void => *` is equivalent to `:enter` and `* => void` is\n * equivalent to
 `:leave`)\n * - `true` and
 `false` also match expression values of `1` and `0` respectively (but do not match\n * `_truthy_` and `_falsy_`
 values)\n *\n * <div class="alert is-helpful">\n *\n * Be careful about entering end leaving elements as their
 transitions present a common\n * pitfall for developers.\n *\n * Note that when an element with a trigger enters the
 DOM its `:enter` transition always\n * gets executed, but its `:leave` transition will not be executed if the element is
 removed\n * alongside its parent (as it will be removed "without warning" before its transition has\n * a chance to
 be executed, the only way that such transition can occur is if the element\n * is exiting the DOM on its own).\n *\n *
 *\n * </div>\n *\n * ### Animating to a Final State\n *\n * If the final step in a transition is a call to `animate()` that
 uses a timing value\n * with no `style` data, that step is automatically considered the final animation arc,\n * for the
 element to reach the final state, in such case Angular
 automatically adds or removes\n * CSS styles to ensure that the element is in the correct final state.\n *\n *
 *\n * ###
 Usage Examples\n *\n * - Transition animations applied based on\n * the trigger's expression value\n *\n *

```

```

`HTML\n * <div [@myAnimationTrigger]="myStatusExp">\n * ... \n * </div>\n * ``\n *\n *``typescript\n * trigger("myAnimationTrigger", [\n * ..., // states\n * transition(`on => off, open =>
closed`, animate(500)),\n * transition(`"* <=> error"`, query('.indicator', animateChild()))\n *])\n * ``\n *\n * - Transition animations applied based on custom logic dependent\n * on the trigger's expression value and
provided parameters\n *\n * ``HTML\n * <div [@myAnimationTrigger]="{\n * value: stepName,\n * params: { target: currentTarget }\n * }">\n * ... \n * </div>\n * ``\n *\n *``typescript\n * trigger("myAnimationTrigger", [\n * ..., // states\n * transition(\n *
(fromState, toState, _element, params) =>\n * [firststep', 'laststep'].includes(fromState.toLowerCase())\n *
&& toState === params?.[target],\n * animate('1s')\n *)\n *])\n * ``\n *\n * @publicApi\n **/\nexport function transition(\n stateChangeExpr: string\n ((fromState: string, toState: string, element?: any,
params?: {[key: string]: any}) => boolean),\n steps: AnimationMetadata|AnimationMetadata[],\n options:
AnimationOptions|null = null): AnimationTransitionMetadata {\n return {type:
AnimationMetadataType.Transition, expr: stateChangeExpr, animation: steps, options};\n}\n\n/**\n * Produces a
reusable animation that can be invoked in another animation or sequence,\n * by calling the `useAnimation()`
function.\n *\n * @param steps One or more animation objects, as returned by the `animate()`\n * or `sequence()`
function, that form a transformation from one state to another.\n *\n * A sequence is used by default when you pass
an array.\n *\n * @param options An options object that can contain a delay value for the start of the\n * animation, and
additional developer-defined parameters.\n *\n * Provided values for additional parameters are used as defaults,\n * and
override values can be passed to the caller on invocation.\n *\n * @returns An object that encapsulates the animation
data.\n *\n * @usageNotes\n * The following example defines a reusable animation, providing some default
parameter\n * values.\n *\n *``typescript\n * var fadeAnimation = animation([\n * style({ opacity: '{{ start }}'
}),\n * animate('{{ time }}',\n * style({ opacity: '{{ end }}}'))\n *],\n * { params: { time: '1000ms', start: 0,
end: 1 }});\n * ``\n *\n * The following invokes the defined animation with a call to `useAnimation()`,\n * passing
in override parameter values.\n *\n *``js\n * useAnimation(fadeAnimation, {\n * params: {\n * time: '2s',\n * start: 1,\n * end: 0\n * }\n * })\n * ``\n *\n * If any of the
passed-in parameter values are missing from this call,\n * the default values are used. If one or more parameter
values are missing before a step is\n * animated, `useAnimation()` throws an error.\n *\n * @publicApi\n */\nexport function animation(\n steps: AnimationMetadata|AnimationMetadata[],\n options: AnimationOptions|null =
null): AnimationReferenceMetadata {\n return {type: AnimationMetadataType.Reference, animation: steps,
options};\n}\n\n/**\n * Executes a queried inner animation element within an animation sequence.\n *\n * @param
options An options object that can contain a delay value for the start of the\n * animation, and additional override
values for developer-defined parameters.\n *\n * @return An object that encapsulates the child animation data.\n *\n * @usageNotes\n * Each time an animation is triggered in Angular, the parent animation\n * has priority and any
child animations are blocked. In order\n * for a child animation to run, the parent animation must query
each of the elements\n * containing child animations, and run them using this function.\n *\n * Note that this feature
is designed to be used with `query()` and it will only work\n * with animations that are assigned using the Angular
animation library. CSS keyframes\n * and transitions are not handled by this API.\n *\n * @publicApi\n */\nexport function animateChild(options: AnimateChildOptions|null = null):\n AnimationAnimateChildMetadata {\n return
{type: AnimationMetadataType.AnimateChild, options};\n}\n\n/**\n * Starts a reusable animation that is created
using the `animation()`
function.\n *\n * @param animation The reusable animation to start.\n *\n * @param options An
options object that can contain a delay value for the start of\n * the animation, and additional override values for
developer-defined parameters.\n *\n * @return An object that contains the animation parameters.\n *\n * @publicApi\n */\nexport function useAnimation(\n animation: AnimationReferenceMetadata,\n
options: AnimationOptions|null = null): AnimationAnimateRefMetadata {\n return {type:
AnimationMetadataType.AnimateRef, animation, options};\n}\n\n/**\n * Finds one or more inner elements within
the current element that is\n * being animated within a sequence. Use with `animate()`. \n *\n * @param selector The
element to query, or a set of elements that contain Angular-specific\n * characteristics, specified with one or more of
the following tokens.\n *
- `query(':enter')` or `query(':leave')` : Query for newly inserted/removed elements
```

(not all elements can be queried via these tokens, see [Entering and Leaving Elements](#entering-and-leaving-elements))

- `query(':animating')` : Query all currently animating elements.
- `query('@triggerName')` : Query elements that contain an animation trigger.
- `query('@*')` : Query all elements that contain an animation triggers.
- `query(':self')` : Include the current element into the animation sequence.
- `@param animation` One or more animation steps to apply to the queried element or elements. An array is treated as an animation sequence.
- `@param options` An options object. Use the 'limit' field to limit the total number of items to collect.
- `@return` An object that encapsulates the query data.
- `@usageNotes`

### Multiple Tokens

Tokens can be merged into a combined query selector string. For example:

```
typescript
query(':self, .record:enter, .record:leave, @subTrigger', [...])
```

The `query()` function collects multiple elements and works internally by using `element.querySelectorAll`. Use the `limit` field of an options object to limit the total number of items to be collected. For example:

```
js
query('div', [
 animate(...),
 animate(...),
 { limit: 1 }
])
```

By default, throws an error when zero items are found. Set the `optional` flag to ignore this error.

For example:

```
js
query('.some-element-that-may-not-be-there', [
 animate(...),
 animate(...),
 { optional: true }
])
```

### Entering and Leaving Elements

Not all elements can be queried via the `:enter` and `:leave` tokens, the only ones that can are those that Angular assumes can enter/leave based on their own logic (if their insertion/removal is simply a consequence of that of their parent they should be queried via a different token in their parent's `:enter`/`:leave` transitions).

The only elements Angular assumes can enter/leave based on their own logic (thus the only ones that can be queried via the `:enter` and `:leave` tokens) are:

- Those inserted dynamically (via `ViewContainerRef`)
- Those that have a structural directive (which, under the hood, are a subset of the above ones)

```
<div class="alert is-helpful">
```

Note that elements will be successfully queried via `:enter`/`:leave`

even if their insertion/removal is not done manually via `ViewContainerRef` or caused by their structural directive (e.g. they enter/exit alongside their parent).

```
</div>
<div class="alert is-important">
```

There is an exception to what previously mentioned, besides elements entering/leaving based on their own logic, elements with an animation trigger can always be queried via `:leave` when their parent is also leaving.

```
</div>
```

### Usage Example

The following example queries for inner elements and animates them individually using `animate()`.

```
typescript
@Component({
 selector: 'inner',
 template: `
 <div [queryParams]="exp">
 <h1>Title</h1>
 <div class="content">
 Blah blah blah
 </div>
 </div>`,
 animations: [
 trigger('queryAnimation', [
 transition('* => goAnimate', [
 // hide the inner elements
 query('h1', style({ opacity: 0 })),
 query('.content', style({ opacity: 0 })),
 // animate the inner elements in, one by one
 query('h1', animate(1000, style({ opacity: 1 }))),
 query('.content', animate(1000, style({ opacity: 1 }))),
]),
],
],
 class: Cmp,
})
export class Cmp {
 exp = '';

 goAnimate() {
 this.exp = 'goAnimate';
 }
}
```

### @publicApi

function query(selector: string, animation: AnimationMetadata|AnimationMetadata[], options: AnimationQueryOptions|null = null): AnimationQueryMetadata {

return {type: AnimationMetadataType.Query, selector, animation, options};

Use within an animation `query()` call to issue a timing gap after each queried item is animated.

`@param timings` A delay value.

`@param animation` One ore more animation steps.

`@returns` An object that encapsulates the stagger data.

`@usageNotes`

In the following example, a container element wraps a list of items stamped out by an `ngFor`. The container element contains an animation trigger that will later be set to query for each of the inner items. Each time items are added, the opacity fade-in animation runs, and each removed item is faded out. When either of these animations occur, the stagger effect is applied after each item's animation is started.

```
html
<!-- list.component.html -->
<button (click)="toggle()">Show / Hide Items</button>
<hr />
<div [queryParams]="items.length">
 <div *ngFor="let item of items">
 {{ item }}
 </div>
</div>
```

Here is the component code:

```
typescript
import {trigger, transition, style, animate, query, stagger} from '@angular/animations';
@Component({
 templateUrl: 'list.component.html',
})
```

```
* animations: [\n * trigger('listAnimation', [\n * ...]\n *])\n *\n * class ListComponent {\n * items = [];\n * showItems() {\n * this.items = [0,1,2,3,4];\n * }\n * hideItems() {\n * this.items = [];\n * }\n * toggle() {\n * this.items.length ? this.hideItems() :
this.showItems();\n * }\n * }`\n *\n * Here is the animation trigger code:\n *\n * typescript\n *
trigger('listAnimation', [\n * transition('* => *', [// each time the binding value changes\n * query(':leave', [\n * stagger(100, [\n * animate('0.5s', style({ opacity: 0 }))\n *]),\n * query(':enter', [\n * style({
opacity: 0 }),\n * stagger(100, [\n * animate('0.5s', style({ opacity: 1 }))\n *])\n *])\n *])\n *])\n * `*\n * @publicApi\n */\n export function stagger(timings: string|number, animation:
AnimationMetadata|AnimationMetadata[]): AnimationStaggerMetadata {\n return {type:
AnimationMetadataType.Stagger, timings, animation};\n }\n }"/**\n * @license\n *\n * Copyright Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license
that can be found in the LICENSE file at https://angular.io/license\n */\n export function scheduleMicroTask(cb:
() => any) {\n Promise.resolve(null).then(cb);\n }\n }"/**\n * @license\n * Copyright Google LLC All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be found in the
LICENSE file at https://angular.io/license\n */\n import {scheduleMicroTask} from '../util';\n /**\n * Provides
programmatic control of a reusable animation sequence,\n * built using the
[AnimationBuilder.build](api/animations/AnimationBuilder#build())\n * method which returns an
`AnimationFactory`, whose
[create](api/animations/AnimationFactory#create()) method
instantiates and initializes this interface.\n *\n * @see `AnimationBuilder`\n *\n * @see `AnimationFactory`\n *\n * @see `animate()`\n *\n * @publicApi\n */\n export
interface AnimationPlayer {\n /**\n * Provides a callback to invoke when the animation finishes.\n *\n * @param fn
The callback function.\n *\n * @see `finish()`\n *\n * @onDone(fn: () => void): void;\n **/\n * Provides a callback to
invoke when the animation starts.\n *\n * @param fn The callback function.\n *\n * @see `run()`\n *\n * @onStart(fn: ()
=> void): void;\n **/\n * Provides a callback to invoke after the animation is destroyed.\n *\n * @param fn The
callback function.\n *\n * @see `destroy()`\n *\n * @see `beforeDestroy()`\n *\n * @onDestroy(fn: () => void): void;\n **/\n * Initializes the animation.\n *\n * @init(): void;\n **/\n * Reports whether the animation has started.\n *\n * @returns True if the animation has started, false otherwise.\n *\n * @hasStarted(): boolean;\n **/\n * Runs the
animation, invoking the `onStart()` callback.\n *\n * @play(): void;\n **/\n * Pauses the animation.\n *\n * @pause():
void;\n **/\n * Restarts the paused animation.\n *\n * @restart(): void;\n **/\n * Ends the animation, invoking the `onDone()` callback.\n *\n * @finish(): void;\n **/\n * Destroys the animation, after invoking the `beforeDestroy()` callback.\n *\n * Calls the `onDestroy()` callback
when destruction is completed.\n *\n * @destroy(): void;\n **/\n * Resets the animation to its initial state.\n *\n * @reset(): void;\n **/\n * Sets the position of the animation.\n *\n * @param position A 0-based offset into the duration,
in milliseconds.\n *\n * @setPosition(position: any /** TODO #9100 */): void;\n **/\n * Reports the current
position of the animation.\n *\n * @returns A 0-based offset into the duration, in milliseconds.\n *\n * @getPosition():
number;\n **/\n * The parent of this player, if any.\n *\n * @parentPlayer: AnimationPlayer|null;\n **/\n * The
total run time of the animation, in milliseconds.\n *\n * @readonly totalTime: number;\n **/\n * Provides a callback
to invoke before the animation is destroyed.\n *\n * @beforeDestroy?: () => any;\n **/\n * @internal\n * Internal\n *\n * @triggerCallback?: (phaseName: string)
=> void;\n **/\n * @internal\n * Internal\n *\n * @disabled?: boolean;\n }\n /**\n * An empty programmatic
controller for reusable animations.\n *\n * Used internally when animations are disabled, to avoid checking for the
null case when an animation player is expected.\n *\n * @see `animate()`\n *\n * @see `AnimationPlayer`\n *\n * @see
`GroupPlayer`\n *\n * @publicApi\n */\n export class NoopAnimationPlayer implements AnimationPlayer {\n private _onDoneFns: Function[] = [];\n private _onStartFns: Function[] = [];\n private _onDestroyFns: Function[] =
[];\n private _started = false;\n private _destroyed = false;\n private _finished = false;\n private _position = 0;\n public parentPlayer: AnimationPlayer|null = null;\n public readonly totalTime: number;\n constructor(duration:
number = 0, delay: number = 0) {\n this.totalTime = duration + delay;\n }
```

```

 }\n private _onFinish() {\n if (!this._finished) {\n this._finished = true;\n this._onDoneFns.forEach(fn =>
fn());\n this._onDoneFns = [];\n }\n }\n onStart(fn: () => void): void {\n this._onStartFns.push(fn);\n }\n
onDone(fn: () => void): void {\n this._onDoneFns.push(fn);\n }\n onDestroy(fn: () => void): void {\n
this._onDestroyFns.push(fn);\n }\n hasStarted(): boolean {\n return this._started;\n }\n init(): void {\n }\n play():
void {\n if (!this.hasStarted()) {\n this._onStart();\n this.triggerMicrotask();\n }\n this._started = true;\n
}\n\n /** @internal */\n triggerMicrotask() {\n scheduleMicroTask(() => this._onFinish());\n }\n\n private
_onStart() {\n this._onStartFns.forEach(fn => fn());\n this._onStartFns = [];\n }\n\n pause(): void {\n }\n restart():
void {\n }\n finish(): void {\n this._onFinish();\n }\n destroy(): void {\n if (!this._destroyed) {\n
this._destroyed = true;\n if (!this.hasStarted())\n {\n this._onStart();\n }\n this.finish();\n this._onDestroyFns.forEach(fn => fn());\n
this._onDestroyFns = [];\n }\n }\n\n reset(): void {\n this._started = false;\n }\n setPosition(position: number):
void {\n this._position = this.totalTime ? position * this.totalTime : 1;\n }\n getPosition(): number {\n return
this.totalTime ? this._position / this.totalTime : 1;\n }\n\n /** @internal */\n triggerCallback(phaseName: string):
void {\n const methods = phaseName == 'start' ? this._onStartFns : this._onDoneFns;\n methods.forEach(fn =>
fn());\n methods.length = 0;\n }\n}\n", "/**\n * @license\n * Copyright Google LLC All Rights Reserved.\n *\n *
Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\n\nimport {scheduleMicroTask} from '../util';\nimport {AnimationPlayer} from
'./animation_player';\n\n/**\n * A programmatic controller for a
group of reusable animations.\n * Used internally to control animations.\n *\n * @see `AnimationPlayer`\n * @see
`{@link animations/group group()}`\n *\n */\nexport class AnimationGroupPlayer implements AnimationPlayer {\n
private _onDoneFns: Function[] = [];\n private _onStartFns: Function[] = [];\n private _finished = false;\n private
_started = false;\n private _destroyed = false;\n private _onDestroyFns: Function[] = [];\n\n public parentPlayer:
AnimationPlayer | null = null;\n public totalTime: number = 0;\n public readonly players: AnimationPlayer[];\n\n
constructor(_players: AnimationPlayer[]) {\n this.players = _players;\n let doneCount = 0;\n let destroyCount
= 0;\n let startCount = 0;\n const total = this.players.length;\n\n if (total == 0) {\n scheduleMicroTask(() =>
this._onFinish());\n } else {\n this.players.forEach(player => {\n player.onDone(() => {\n if
(++doneCount == total) {\n this._onFinish();\n }\n });\n player.onDestroy(() => {\n if
(++destroyCount == total) {\n this._onDestroy();\n }\n });\n player.onStart(() => {\n if
(++startCount == total) {\n this._onStart();\n }\n });\n });\n this.totalTime = this.players.reduce((time, player) => Math.max(time, player.totalTime),
0);\n }\n\n private _onFinish() {\n if (!this._finished) {\n this._finished = true;\n this._onDoneFns.forEach(fn => fn());\n this._onDoneFns = [];\n }\n }\n\n init(): void {\n this.players.forEach(player => player.init());\n }\n\n onStart(fn: () => void): void {\n this._onStartFns.push(fn);\n }\n\n private _onStart() {\n if (!this.hasStarted()) {\n this._started = true;\n this._onStartFns.forEach(fn =>
fn());\n this._onStartFns = [];\n }\n }\n\n onDone(fn: () => void): void {\n this._onDoneFns.push(fn);\n }\n\n onDestroy(fn: () => void):
void {\n this._onDestroyFns.push(fn);\n }\n\n hasStarted() {\n return this._started;\n }\n\n play() {\n if
(!this.parentPlayer) {\n this.init();\n }\n this._onStart();\n this.players.forEach(player => player.play());\n }\n\n pause(): void {\n this.players.forEach(player => player.pause());\n }\n\n restart(): void {\n this.players.forEach(player => player.restart());\n }\n\n finish(): void {\n this._onFinish();\n this.players.forEach(player => player.finish());\n }\n\n destroy(): void {\n this._onDestroy();\n }\n\n private
_onDestroy() {\n if (!this._destroyed) {\n this._destroyed = true;\n this._onFinish();\n this.players.forEach(player => player.destroy());\n this._onDestroyFns.forEach(fn => fn());\n this._onDestroyFns = [];\n }\n }\n\n reset(): void {\n this.players.forEach(player => player.reset());\n this._destroyed = false;\n this._finished = false;\n this._started = false;\n }\n\n setPosition(p: number): void {\n const timeAtPosition = p * this.totalTime;\n this.players.forEach(player => {\n const position = player.totalTime ? Math.min(1, timeAtPosition / player.totalTime) : 1;\n player.setPosition(position);\n });\n }\n\n getPosition(): number {\n const longestPlayer =\n

```

```

this.players.reduce((longestSoFar: AnimationPlayer|null, player: AnimationPlayer) => {\n const
newPlayerIsLongest =\n longestSoFar === null || player.totalTime > longestSoFar.totalTime;\n return
newPlayerIsLongest ? player : longestSoFar;\n }, null);\n return longestPlayer != null ?
longestPlayer.getPosition() : 0;\n }\n\n beforeDestroy(): void {\n this.players.forEach(player => {\n if
(player.beforeDestroy) {\n player.beforeDestroy();\n }\n });\n }\n\n /** @internal */\n triggerCallback(phaseName: string): void {\n const methods = phaseName == 'start' ? this._onStartFns :
this._onDoneFns;\n
 methods.forEach(fn => fn());\n methods.length = 0;\n }\n}\n"/**\n * @license\n * Copyright Google LLC All
Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\nexport {AnimationGroupPlayer as AnimationGroupPlayer} from
'./players/animation_group_player';\nexport const PRE_STYLE = '!';\n"/**\n * @license\n * Copyright Google
LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n */\n\n/**\n * @module\n * @description\n * Entry point for all
animation APIs of the animation package.\n */\nexport {AnimationBuilder, AnimationFactory} from
'./animation_builder';\nexport {AnimationEvent} from './animation_event';\nexport {animate, animateChild,
AnimateChildOptions, AnimateTimings, animation, AnimationAnimateChildMetadata,
AnimationAnimateMetadata, AnimationAnimateRefMetadata,
AnimationGroupMetadata, AnimationKeyframesSequenceMetadata, AnimationMetadata,
AnimationMetadataType, AnimationOptions, AnimationQueryMetadata, AnimationQueryOptions,
AnimationReferenceMetadata, AnimationSequenceMetadata, AnimationStaggerMetadata, AnimationStateMetadata,
AnimationStyleMetadata, AnimationTransitionMetadata, AnimationTriggerMetadata, AUTO_STYLE, group,
keyframes, query, sequence, stagger, state, style, transition, trigger, useAnimation, StyleData} from
'./animation_metadata';\nexport {AnimationPlayer, NoopAnimationPlayer} from
'./players/animation_player';\n\nexport * from './private_export';\n"/**\n * @license\n * Copyright Google LLC
All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in
the LICENSE file at https://angular.io/license\n */\n\n/**\n * @module\n * @description\n * Entry point for all
public APIs of this package.\n */\nexport * from './src/animations';\n"/**\n * @license\n * Copyright
Google LLC All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n
* found in the LICENSE file at https://angular.io/license\n */\n\n// This file is not used to build this module. It is
only used during editing\n// by the TypeScript language service and during build for verification. `ngc`\n// replaces
this file with production index.ts when it rewrites private symbol\n// names.\n\nexport * from
'./public_api';\n"/**\n * Generated bundle index. Do not edit.\n */\n\nexport * from
'./index';\n"], "names": [], "mappings": ";;;;;;;;AAUA;;;;;;;;;;;;;MA8CsB,gBAAGB;CAQrC;AAED
;;;;;;;;;MAOsB,gBAAGB;;ACzEtC;;;;;;;;;AAqKA;;;MAKa,UAAU,GAAG,IAAI;AAyR9B;;;;;;;;;
;;;;;;;;;SAoJgB,OAAO,CAAC,IAAY,EAAE,W
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## 1.744 angular-devkit-architect 0.1302.6

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## 1.748 @types/node 12.20.55

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## 1.750 minipass-collect 1.0.2

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## 1.751 moq/moq4 4.18.4

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# 1.752 regenerator-transform 0.15.1

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# 1.755 js-yaml 3.14.1

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# 1.756 @types/parse-json 4.0.0

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# 1.757 run-parallel 1.2.0

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# 1.758 fraction.js 4.2.0

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# 1.759 csstools/cssdb 5.1.0

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## 1.760 googlechromelabs/critters 0.0.16

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## 1.761 safer-buffer 2.1.2

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# 1.769 caniuse-lite 1.0.30001435

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## 1.790 system.net.http.formatting 5.2.3

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<http://www.cl.cam.ac.uk/~mr10/Bench/README>

Please feel free to re-implement this benchmark in any language you choose. I would be happy to incorporate such translations into this

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Martin Richards

23 February 2007

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 <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
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 <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
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<ItemGroup>
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 <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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## 1.796 stef.validation 0.1.1

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## 4.5.0

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Martin Richards

23 February 2007

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new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
 new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
 new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
 new XElement("p", "XML version by Jon Bosak, 1996-1997."),
 new XElement("p", "This work may be freely copied and distributed worldwide.")
<Project Sdk="Microsoft.NET.Sdk">
<PropertyGroup>
 <OutputType>Exe</OutputType>
 <ApplicationManifest>App.manifest</ApplicationManifest>
 <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
 <IlrtTestKind>BuildOnly</IlrtTestKind>
 <!-- Test unsupported outside of windows -->
 <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
 <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
 <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
 <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
</PropertyGroup>
<ItemGroup>
 <Compile Include="Program.cs" />
 <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
```

```

 <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
 <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
 <ProjectReference
 Include="..\..\NativeServer/CMakeLists.txt" />
 <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>

```

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Chris Re ([cmr28@cornell.edu](mailto:cmr28@cornell.edu)) and Werner Vogels ([vogels@cs.cornell.edu](mailto:vogels@cs.cornell.edu))

For details on the original authors see <http://math.nist.gov/scimark2>

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Use:

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Content: <https://stackoverflow.com/a/769713>

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Answer author: harp -- <https://stackoverflow.com/users/4525/harpo>

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<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

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<https://github.com/santoshsahoo/nbench> (mirror of the same code)

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

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## 1.860 system.text.json 4.7.2

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/system-text-json-zip/System.Text.Json.dll: binary file matches

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## 1.861 system.reflection.typeextensions 4.3.0

### 1.861.1 Available under license :

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/system-reflection-zip/System.Reflection.dll: binary file matches

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# 1.862 microsoft.extensions.primitives 6.0.0

## 1.862.1 Available under license :

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/microsoft-extensions-primitives-zip/Microsoft.Extensions.Primitives.dll: binary file matches

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\* /bin/grep

## 1.863

# system.runtime.compilerservices.unsafe

## 6.0.0

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<http://www.cl.cam.ac.uk/~mr10/Bench/README>

Please feel free to re-implement this benchmark in any language you choose. I would be happy to incorporate such translations into this distribution together with their timing/size results.

Martin Richards  
23 February 2007

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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
 <OutputType>Exe</OutputType>
 <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
 <Compile Include="Program.cs" />
 <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
 <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
 <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
 <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
 <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
 new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
```

new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),  
new XElement("p", "XML version by Jon Bosak, 1996-1997."),  
new XElement("p", "This work may be freely copied and distributed worldwide.")  
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This is a port of the SciMark2a Java Benchmark to C# by  
Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

For details on the original authors see <http://math.nist.gov/scimark2>

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<Project.Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--



Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.

-->

```
<ItemGroup>
 <TpnRepo Include="dotnet/runtime" />
 <TpnRepo Include="dotnet/aspnetcore" />
 <TpnRepo Include="dotnet/installer" />
 <TpnRepo Include="dotnet/roslyn-analyzers" />
 <TpnRepo Include="dotnet/templating" />
 <TpnRepo Include="dotnet/winforms" />
 <TpnRepo Include="dotnet/wpf" />
 <TpnRepo Include="dotnet/linker" />
```

<!--

Additional repos that  
should be included but don't have any third-party-notices files:

- dotnet/efcore
- dotnet/emsdk
- dotnet/extensions
- dotnet/icu
- dotnet/sdk
- dotnet/windowsdesktop

-->

```
<TpnRepo Condition="'%(TpnRepo.Branch)' == ''" Branch="main" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>
```

```
<RegenerateThirdPartyNotices
 TpnFile="$(TpnFile)"
 PotentialTpnPaths="@ (PotentialTpnPath)"
 TpnRepos="@ (TpnRepo)" />
```

```
<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>
```

</Project>

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<https://github.com/madler/zlib>  
[https://zlib.net/zlib\\_license.html](https://zlib.net/zlib_license.html)

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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|                                                    |                                                                          |
|----------------------------------------------------|--------------------------------------------------------------------------|
| Jean-loup Gailly                                   | Mark Adler                                                               |
| <a href="mailto:jloup@gzip.org">jloup@gzip.org</a> | <a href="mailto:madler@alumni.caltech.edu">madler@alumni.caltech.edu</a> |

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The punycode implementation is based on the sample code in RFC 3492

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 27th, 2022

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# 1.864 util-deprecate 1.0.2

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## 1.866 jshttp's negotiator 0.6.3

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## 1.867 qs - qs querystring 6.11.0

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## 1.887 function-bind 1.1.1

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# 1.894 run-async 2.4.1

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# 1.895 system.io 4.3.0

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<http://www.cl.cam.ac.uk/~mr10/Bench/README>

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Martin Richards

23 February 2007

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```
<Project Sdk="Microsoft.Build.NoTargets">
```

```
<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />
```

```
<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
```

```
<PropertyGroup>
```

```
<TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
```

```
</PropertyGroup>
```

```
<!--
```

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.

```
-->
```

```
<ItemGroup>
```

```
<TpnRepo Include="dotnet/runtime" />
```

```
<TpnRepo Include="dotnet/aspnetcore" />
```

```
<TpnRepo Include="dotnet/installer" />
```

```
<TpnRepo Include="dotnet/roslyn-analyzers" />
```

```
<TpnRepo Include="dotnet/templating" />
```

```
<TpnRepo Include="dotnet/winforms" />
```

```
<TpnRepo Include="dotnet/wpf" />
```

```
<!--
```

Additional repos that should be included but don't have any third-party-notices files:

dotnet/efcore

```
dotnet/emsdk
dotnet/extensions
dotnet/icu
dotnet/sdk
dotnet/windowsdesktop
-->
```

```
<TpnRepo Condition="'%(TpnRepo.Branch)' == ''" Branch="main" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>
```

```
<RegenerateThirdPartyNotices
 TpnFile="$(TpnFile)"
 PotentialTpnPaths="@ (PotentialTpnPath)"
 TpnRepos="@ (TpnRepo)" />
```

```
<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>
```

```
</Project>
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
 <OutputType>Exe</OutputType>
 <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
 <Compile Include="Program.cs" />
 <Compile Include="..\..\ServerContracts\Server.CoClasses.cs" />
 <Compile Include="..\..\ServerContracts\Server.Contracts.cs" />
 <Compile Include="..\..\ServerContracts\ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
 <CMakeProjectReference Include="..\..\NativeServer\CMakeLists.txt" />
 <ProjectReference Include="$(TestSourceDir)Common\CoreCLRTestLibrary\CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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<https://github.com/madler/zlib>  
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.13, October 13th, 2022

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Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

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Written by: Philip Hazel  
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# 1.896 system.security.cryptography.encoding

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Martin Richards

23 February 2007

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

```

<!--
Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
in the dotnet home directory.
-->
<ItemGroup>
 <TpnRepo Include="dotnet/runtime" />
 <TpnRepo Include="dotnet/aspnetcore" />
 <TpnRepo Include="dotnet/installer" />
 <TpnRepo Include="dotnet/roslyn-analyzers" />
 <TpnRepo Include="dotnet/templating" />
 <TpnRepo Include="dotnet/winforms" />
 <TpnRepo Include="dotnet/wpf" />

 <!--
 Additional repos that should be included but don't have any
third-party-notices files:
 dotnet/efcore
 dotnet/emsdk
 dotnet/extensions
 dotnet/icu
 dotnet/sdk
 dotnet/windowsdesktop
 -->

 <TpnRepo Condition="'%(TpnRepo.Branch)' == ''" Branch="main" />

 <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
 <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
 <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
 <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
 <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>

<RegenerateThirdPartyNotices
 TpnFile="$(TpnFile)"
 PotentialTpnPaths="@ (PotentialTpnPath)"
 TpnRepos="@ (TpnRepo)" />

 <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>

</Project>
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
 <OutputType>Exe</OutputType>
 </PropertyGroup>
 <ApplicationManifest>App.manifest</ApplicationManifest>

```

```

</PropertyGroup>
<ItemGroup>
 <Compile Include="Program.cs" />
 <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
 <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
 <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
</ItemGroup>
<ItemGroup>
 <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
 <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>
</Project>

```

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[https://zlib.net/zlib\\_license.html](https://zlib.net/zlib_license.html)

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.13, October 13th, 2022

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By Sean Eron Anderson  
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The punycode implementation  
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# 1.897

## system.security.cryptography.primitives 4.3.0

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Martin Richards

23 February 2007

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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
 <OutputType>Exe</OutputType>
 <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
 <Compile Include="Program.cs" />
 <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
 <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
 <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
 <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
 <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
<Project Sdk="Microsoft.Build.NoTargets">

 <UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

 <Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
 <PropertyGroup>
 <TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
 </PropertyGroup>

 <!--
 Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
 its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
 in the dotnet home directory.
 -->

 <ItemGroup>
 <TpnRepo Include="dotnet/runtime" />
 <TpnRepo Include="dotnet/aspnetcore" />
 <TpnRepo Include="dotnet/installer" />
 <TpnRepo Include="dotnet/roslyn-analyzers" />
 <TpnRepo Include="dotnet/templating" />
 </ItemGroup>
 </Target>
</Project>
```

```

<TpnRepo Include="dotnet/winforms" />
<TpnRepo Include="dotnet/wpf" />

<!--
 Additional repos that should be included but don't have any
third-party-notices files:
 dotnet/efcore
 dotnet/emsdk
 dotnet/extensions
 dotnet/icu
 dotnet/sdk
 dotnet/windowsdesktop
-->

<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>

<RegenerateThirdPartyNotices
 TpnFile="$(TpnFile)"
 PotentialTpnPaths="@ (PotentialTpnPath)"
 TpnRepos="@ (TpnRepo)" />

<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>

</Project>
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.13, October 13th, 2022

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new XElement("fm",
 new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
 new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.3.1, January 22nd, 2024

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## 1.898

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Martin Richards

23 February 2007

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.

-->

```

<ItemGroup>
 <TpnRepo Include="dotnet/runtime" />
 <TpnRepo Include="dotnet/aspnetcore" />
 <TpnRepo Include="dotnet/installer" />
 <TpnRepo Include="dotnet/roslyn-analyzers" />
 <TpnRepo Include="dotnet/templating" />
 <TpnRepo Include="dotnet/winforms" />
 <TpnRepo Include="dotnet/wpf" />

 <!--
 Additional repos that should be included but don't have any
third-party-notices files:
 dotnet/efcore
 dotnet/emsdk
 dotnet/extensions
 dotnet/icu
 dotnet/sdk
 dotnet/windowsdesktop
 -->

 <TpnRepo Condition="'%(TpnRepo.Branch)' == ''" Branch="main" />

 <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
 <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
 <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
 <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
 <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>

<RegenerateThirdPartyNotices
 TpnFile="$(TpnFile)"
 PotentialTpnPaths="@ (PotentialTpnPath)"
 TpnRepos="@ (TpnRepo)" />

 <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>

</Project>
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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Aspects of Date/Time processing based on algorithm described in "Euclidean Affine Functions and Applications to  
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Algorithms", Cassio Neri and Lorenz Schneider. <https://arxiv.org/pdf/2102.06959.pdf>

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<Project Sdk="Microsoft.NET.Sdk">
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```
<PropertyGroup>
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<OutputType>Exe</OutputType>
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<ApplicationManifest>App.manifest</ApplicationManifest>
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</PropertyGroup>
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<ItemGroup>
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<Compile Include="Program.cs" />
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<Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
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<Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
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<Compile Include="..\..\ServerContracts/ServerGuids.cs" />
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</ItemGroup>
```

```
<ItemGroup>
```

```
<CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
```

```
<ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
```

```
</ItemGroup>
```

```
</Project>
```

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new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),

new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),

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Email local part: hzmester  
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.3.1, January 22nd, 2024

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Martin Richards  
23 February 2007

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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
 <OutputType>Exe</OutputType>
 <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
 <Compile Include="Program.cs" />
 <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
 <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
 <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
 <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
 <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
```

</Project>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.13, October 13th, 2022

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In reference to: <https://github.com/dotnet/templating/blob/main/build/nuget.exe>

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<https://github.com/Microsoft/RoslynClrHeapAllocationAnalyzer>

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<https://github.com/BurntSushi/aho-corasick>

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Aspects of Date/Time processing based on algorithm described in "Euclidean Affine Functions and Applications to Calendar

Algorithms", Cassio Neri and Lorenz Schneider. <https://arxiv.org/pdf/2102.06959.pdf>

<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.

-->

<ItemGroup>

<TpnRepo Include="dotnet/runtime" />

<TpnRepo Include="dotnet/aspnetcore" />

<TpnRepo Include="dotnet/installer" />

<TpnRepo Include="dotnet/roslyn-analyzers" />

<TpnRepo Include="dotnet/templating" />

<TpnRepo Include="dotnet/winforms" />

<TpnRepo Include="dotnet/wpf" />

<!--

Additional repos that should be included but don't have any third-party-notices files:

dotnet/efcore

dotnet/emsdk

dotnet/extensions



```
dotnet/icu
dotnet/sdk
dotnet/windowsdesktop
-->
```

```
<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>
```

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<RegenerateThirdPartyNotices
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 PotentialTpnPaths="@ (PotentialTpnPath)"
 TpnRepos="@ (TpnRepo)" />
```

```
<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>
```

```
</Project>
```

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new XElement("fm",
 new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
 new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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<https://github.com/santoshsahoo/nbench> (mirror of the same code)

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# 1.916 system.io.filesystem 4.3.0

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# 1.921 system.security.accesscontrol 4.7.0

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# 1.923 system.collections 4.3.0

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# 1.925 system.collections.concurrent 4.3.0

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# 1.927 system.diagnostics.debug 4.3.0

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# 1.928 system.security.cryptography.cng 4.5.0

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# 1.934 system.reflection.metadata 1.6.0

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<https://github.com/madler/zlib>  
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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|                                                    |                                                                          |
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Bit Twiddling Hacks

By Sean Eron Anderson

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# 1.939 system.threading 4.3.0

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# 1.941

## system.security.cryptography.algorithms

## 4.3.0

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# phy.openssl 4.3.0

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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Written

in 2018 by David Blackman and Sebastiano Vigna (vigna@acm.org)

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<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```
<Compile Include="Program.cs" />
```

```

 <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
 <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
 <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
 <ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
 <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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for West Wind Live Reload ASP.NET Core Middleware

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lz4net

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<http://www.cl.cam.ac.uk/~mr10/Bench/README>

Please feel free to re-implement this benchmark in any language you choose. I would be happy to incorporate such translations into this distribution together with their timing/size results.

Martin Richards

23 February 2007

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```

<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
 <OutputType>Exe</OutputType>
 <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
 <Compile Include="Program.cs" />
 <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
 <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
 <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
 <CMakeProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
 <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>

```

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```

new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
 new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
 new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
 new XElement("p", "XML version by Jon Bosak, 1996-1997."),
 new XElement("p", "This work may be freely copied and distributed worldwide.")
)

```

```

<Project Sdk="Microsoft.Build.NoTargets">

```

```

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

```

```

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

```

```

 <PropertyGroup>

```

```

 <TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

```

```

 </PropertyGroup>

```

```

<!--

```

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.

```
-->
<ItemGroup>
 <TpnRepo Include="dotnet/runtime" />
 <TpnRepo Include="dotnet/aspnetcore" />
 <TpnRepo Include="dotnet/installer" />
 <TpnRepo Include="dotnet/roslyn-analyzers" />
 <TpnRepo Include="dotnet/templating" />
 <TpnRepo Include="dotnet/winforms" />
 <TpnRepo Include="dotnet/wpf" />

 <!--
 Additional repos that should be included but don't have any
third-party-notices files:
 dotnet/efcore
 dotnet/emsdk
 dotnet/extensions
 dotnet/icu
 dotnet/sdk
 dotnet/windowsdesktop
 dotnet/linker
 -->

 <TpnRepo Condition="'%(TpnRepo.Branch)' == ''" Branch="main" />

 <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
 <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
 <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
 <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
 <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>

<RegenerateThirdPartyNotices
 TpnFile="$(TpnFile)"
 PotentialTpnPaths="@ (PotentialTpnPath)"
 TpnRepos="@ (TpnRepo)" />

 <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>

</Project>

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Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
 new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
 new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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<https://github.com/santoshsahoo/nbench> (mirror of the same code)

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Use:

<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

```
<Project Sdk="Microsoft.NET.Sdk">
```

```
<PropertyGroup>
```

```
<OutputType>Exe</OutputType>
```

```
<ApplicationManifest>App.manifest</ApplicationManifest>
```

```
</PropertyGroup>
```

```
<ItemGroup>
```

```
<Compile Include="Program.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
```

```
<Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
```

```
<Compile Include="..\..\ServerContracts/ServerGuids.cs" />
```

```
</ItemGroup>
```

```
<ItemGroup>
```

```
<ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
```

```
<ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
```

```
</ItemGroup>
```

```
</Project>
```

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This is a port of the SciMark2a Java Benchmark to C# by  
Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

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# 1.966 system.buffers 4.3.0

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# 1.971

## runtime.native.system.security.cryptography. openssl 4.3.0

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# 1.972 system.componentmodel 4.3.0

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# 1.977 system.collections.specialized 4.3.0

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Martin Richards  
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```
<Project Sdk="Microsoft.Build.NoTargets">
```

```
<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />
```

```
<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
```

```
<PropertyGroup>
```

```
<TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
```

```
</PropertyGroup>
```

```
<!--
```

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.

```
-->
```

```
<ItemGroup>
```

```
<TpnRepo Include="dotnet/runtime" />
```

```
<TpnRepo Include="dotnet/aspnetcore" />
```

```
<TpnRepo Include="dotnet/installer" />
```

```
<TpnRepo Include="dotnet/roslyn-analyzers" />
```

```
<TpnRepo Include="dotnet/templating" />
```

```
<TpnRepo Include="dotnet/winforms" />
```

```
<TpnRepo Include="dotnet/wpf" />
```

```
<!--
```

Additional repos that should be included but don't have any third-party-notices files:

```
dotnet/efcore
```

```
dotnet/emsdk
```

```
dotnet/extensions
```

```
dotnet/icu
```

```
dotnet/sdk
```

```
dotnet/windowsdesktop
```

```
-->
```

```
<TpnRepo Condition="'%(TpnRepo.Branch)' == ''" Branch="main" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
```

```
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
```

```
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
```

```
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
```

```
</ItemGroup>
```

```
<RegenerateThirdPartyNotices
 TpnFile="$(TpnFile)"
 PotentialTpnPaths="@ (PotentialTpnPath)"
 TpnRepos="@ (TpnRepo)" />

<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>
```

</Project>

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.13, October 13th, 2022

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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
 <!-- Needed for CMakeProjectReference -->
 <RequiresProcessIsolation>true</RequiresProcessIsolation>
 <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
 <Compile Include="Program.cs" />
 <Compile Include="..\..\ServerContracts\Server.CoClasses.cs" />
 <Compile Include="..\..\ServerContracts\Server.Contracts.cs" />
 <Compile Include="..\..\ServerContracts\ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
 <CMakeProjectReference Include="..\..\NativeServer\CMakeLists.txt" />
 <ProjectReference Include="$(TestLibraryProjectPath)" />
 </ItemGroup>
</Project>
```

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<https://github.com/madler/zlib>  
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.3.1, January 22nd, 2024

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<https://github.com/SixLabors/ImageSharp/blob/f4f689ce67ecbcc35cebddba5aacb603e6d1068a/src/ImageSharp/Formats/Png/Zlib/Crc32.cs>

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# 1.983 system.reflection.primitives 4.3.0

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# 1.985 system.runtime.handles 4.3.0

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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 </ItemGroup>
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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/nuget-frameworks-5-11-0-zip/NuGet.Frameworks.5.11.0/lib/net40/NuGet.Frameworks.dll: binary file matches  
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/nuget-frameworks-5-11-0-zip/NuGet.Frameworks.5.11.0/lib/netstandard2.0/NuGet.Frameworks.dll: binary file matches

Found in path(s):

\* /bin/grep

# 1.1000 xunit.net [visual studio/tfs build runner] 2.4.5

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-----  
The code in src/xunit.runner.visualstudio/Utility/AssemblyResolution/Microsoft.DotNet.PlatformAbstractions was  
imported from:

<https://github.com/dotnet/core-setup/tree/v2.0.1/src/managed/Microsoft.DotNet.PlatformAbstractions>

The code in src/xunit.runner.visualstudio/Utility/AssemblyResolution/Microsoft.DotNet.PlatformAbstractions  
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# 1.1001 license-webpack-plugin 4.0.2

## 1.1001.1 Available under license :

# License Webpack Plugin

[![Build Status](https://api.travis-ci.org/xz64/license-webpack-plugin.svg?branch=master)](https://travis-ci.org/xz64/license-webpack-plugin)

Manage third-party license compliance in your webpack build.

## Installation

```
`npm install license-webpack-plugin --save-dev`
```

## Usage

To use the plugin, simply add it to the plugins section in the webpack config.

Example:

```
```javascript
const LicenseWebpackPlugin = require('license-webpack-plugin').LicenseWebpackPlugin;

module.exports = {
  plugins: [
    new LicenseWebpackPlugin()
  ]
};
```
```

The default behavior will add a license notice file to each chunk of the webpack build. In addition, it will add a banner indicating the path to the license notice file in any Javascript assets. Third party libraries imported via external tools like SASS `@import`` may not appear in the output (since webpack does not process `@import``). If this issue happens, please specify additional modules that the plugin should scan.

To configure

the plugin, check the [documentation](DOCUMENTATION.md).

## Build Instructions

...

yarn  
yarn build  
...

## ## Migration Guides

Migration guides for breaking changes are documented [here](MIGRATION.md).

## ## Changelog

The changelog can be found [here](CHANGELOG.md).

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## # Documentation

## ## Basic Setup

Below is an example of how to add the plugin to a webpack config:

```
```javascript
const LicenseWebpackPlugin = require('license-webpack-plugin').LicenseWebpackPlugin;

module.exports = {
  plugins: [
    new LicenseWebpackPlugin()
  ]
};
```
```

## ## Configuration

**\*\*\*`stats`\*\*\*** - toggle warnings and errors on/off (default: report warnings and errors)

Example:

```
```javascript
new LicenseWebpackPlugin({
  stats: {
    warnings: true,
    errors: true
  }
});
```
```

**\*\*\*`licenseInclusionTest`\*\*\*** - filter which licenses get included in the report (default: capture all licenses)

Example:

```
```javascript
new LicenseWebpackPlugin({
  licenseInclusionTest: (licenseType) => (licenseType === 'MIT')
});
```
```

Notes: All license identifiers in npm packages are supposed to follow SPDX format. If your requirements are very specific, it is recommended to set up this option using the [`spdx-satisfies`](<https://www.npmjs.com/package/spdx-satisfies>) package. The plugin does not provide the `spdx-satisfies` package, so you must install it separately if you want to use it.

Example using `spdx-satisfies`:

```
```javascript
const satisfies = require('spdx-satisfies');

new LicenseWebpackPlugin({
  licenseInclusionTest: (licenseType) => satisfies(licenseType, 'ISC OR MIT')
});
```
```

**\*\*\*`outputFilename`\*\*\*** - customize the license report filename (default: ``[name].licenses.txt``)

Example:

```
```javascript
new LicenseWebpackPlugin({
  outputFilename: '[name].[hash].licenses.txt'
});
```
```

**\*\*\*`unacceptableLicenseTest`\*\*\*** - error out on unacceptable license (default: disabled)



Example:

```
```javascript
new LicenseWebpackPlugin({
  unacceptableLicenseTest: (licenseType) => (licenseType === 'GPL')
});
```
```

**\*\*\*`handleUnacceptableLicense`\*\*\*** - do something when an unacceptable license is found (default: disabled)

Example:

```
```javascript
new LicenseWebpackPlugin({
  unacceptableLicenseTest: (licenseType) => (licenseType === 'GPL'),
  handleUnacceptableLicense: (packageName, licenseType)
=> {
  // do something here
}
});
```
```

**\*\*\*`excludedPackageTest`\*\*\*** - exclude packages (default: disabled)

Example:

```
```javascript
new LicenseWebpackPlugin({
  excludedPackageTest: (packageName) => packageName === 'excluded-package'
});
```
```

**\*\*\*`perChunkOutput`\*\*\*** - control whether or not the license files are generated per chunk or are combined into one file (default: `true`)

Example:

```
```javascript
new LicenseWebpackPlugin({
  perChunkOutput: false // combine all license information into one file
});
```
```

**\*\*\*`addBanner`\*\*\*** - write a banner to the top of each js file (default: `false`)

**\*\*Webpack V5 Users\*\*:** Please read the notes on the `renderBanner` option as some special configuration is required when using banners on webpack v5.

Example:

```
```javascript
new LicenseWebpackPlugin({
  addBanner: true
});
```
```

```
});
```
```

*****`licenseTypeOverrides`***** - override the license type for specific packages (default: disabled)

Example:

```
```javascript  
new LicenseWebpackPlugin({
 licenseTypeOverrides:
 {
 foopkg: 'MIT'
 }
});
```
```

*****`licenseTextOverrides`***** - override the license text for specific packages (default: disabled)

Example:

```
```javascript  
new LicenseWebpackPlugin({
 licenseTextOverrides: {
 foopkg: 'License text for foopkg'
 }
});
```
```

*****`licenseFileOverrides`***** - override the license filename for specific packages (default: disabled)

Example:

```
```javascript  
new LicenseWebpackPlugin({
 licenseFileOverrides: {
 foopkg: 'The-License.txt'
 }
});
```
```

Notes: The license filename is resolved relative to the package directory.

*****`renderLicenses`***** - change the format / contents of the generated license file (default: print package name, license type, and license text)

Example:

```
```javascript  
new LicenseWebpackPlugin({
 renderLicenses: (modules) => {
 console.log(modules[0].packageName, modules[0].licenseId, modules[0].licenseText);
 return JSON.stringify(modules);
 }
});
```
```

```

}
});
```

```

**\*\*\*`renderBanner`\*\*\*** - change the format / contents of the banner written to the top of each js file (default: print message indicating license filename)

**\*\*Webpack V5 Users\*\***: The ``modules`` parameter to ``renderBanner`` will be empty in webpack v5 due to technical limitations. In addition, TerserPlugin (which is automatically enabled on production builds to minify code and extract licenses) will interfere with the banner. In order to turn off the license handling feature of TerserPlugin, it needs to be reconfigured in webpack configuration like this:

```

```javascript
const TerserPlugin = require('terser-webpack-plugin');

module.exports = {
  optimization: {
    minimize: true,
    minimizer: [
      new TerserPlugin({
        extractComments: false, // prevents TerserPlugin from extracting a [chunkName].js.LICENSE.txt file
        terserOptions: {
          format: {
            // Tell terser to remove all comments except for the banner added via LicenseWebpackPlugin.
            // This can be customized further to allow other types of comments to show
            up in the final js file as well.
            // See the terser documentation for format.comments options for more details.
            comments: (astNode, comment) => (comment.value.startsWith('! licenses are at '))
          }
        }
      })
    ]
  }
}
```

```

Example:

```

```javascript
new LicenseWebpackPlugin({
  addBanner: true,
  renderBanner: (filename, modules) => {
    console.log(modules);
    return '/*! licenses are at ' + filename + '*/';
  }
});
```

```

**\*\*\*`handleMissingLicenseText`\*\*\*** - do something when license text is missing from a package (default: disabled)

Example:

```
```javascript
new LicenseWebpackPlugin({
  handleMissingLicenseText: (packageName, licenseType) => {
    console.log('Cannot find license for ' + packageName);
    return 'UNKNOWN';
  }
});
```
```

Notes: You can return your own license text from this function, but you should prefer using `licenseTextOverrides` first.

\* \*\*`licenseTemplateDir`\*\* - use fallback license files for when a package is missing a license file (default: disabled)

Example:

```
```javascript
new LicenseWebpackPlugin({
  licenseTemplateDir: path.resolve(__dirname, 'licenseTemplates')
});
```
```

Notes: This option specifies a directory containing `.txt` files containing the license text based on the license type. (e.g. `MIT.txt`). Templates can be found [here](https://github.com/spdx/license-list).

\* \*\*`chunkIncludeExcludeTest`\*\* - control which chunks gets processed by the plugin (default: all chunks get processed)

Example:

```
```javascript
new LicenseWebpackPlugin({
  chunkIncludeExcludeTest: {
    exclude: ['foo'],
    include: ['bar']
  }
});
```
```

Example:

```
```
new LicenseWebpackPlugin({
  chunkIncludeExcludeTest: (chunkName) => chunkName.startsWith('abc')
});
```
```

Notes: If there is a duplicate entry in both the `exclude` and `include` array, the duplicated entry will be excluded.

**\*\*\*`modulesDirectories`\*\*\*** - limit which directories get scanned for license files (default: disabled)

Example:

```
```javascript
new LicenseWebpackPlugin({
  modulesDirectories: [
    path.resolve(__dirname, 'node_modules')
  ]
});
```
```

**\*\*\*`additionalChunkModules`\*\*\*** - add additional node modules to a chunk (default: disabled)

Example:

```
```javascript
new LicenseWebpackPlugin({
  additionalChunkModules: {
    main: [
      {
        name: 'somepkg',
        directory: path.join(__dirname, 'node_modules', 'somepkg')
      }
    ]
  }
});
```
```

**\*\*\*`additionalModules`\*\*\*** - add additional node modules to the scan (default: disabled)

Example:

```
```javascript
new LicenseWebpackPlugin({
  additionalModules: [
    {
      name: 'somepkg',
      directory: path.join(__dirname, 'node_modules', 'somepkg')
    }
  ]
});
```
```

**\*\*\*`preferredLicenseTypes`\*\*\*** - help the plugin decide which license type to pick in case a package specifies multiple licenses (default: disabled)

Example:

```
```javascript
new LicenseWebpackPlugin({
  preferredLicenseTypes: ['MIT', 'ISC']
});
```
```

**\*\*\*`handleLicenseAmbiguity`\*\*\*** - do something when the plugin finds ambiguous license types (default: pick first license type)

Example:

```
```javascript
new LicenseWebpackPlugin({
  handleLicenseAmbiguity: (packageName, licenses) => {
    console.log(packageName);
    console.log(licenses[0].url);
    return licenses[0].type;
  }
});
```
```

Notes: This function is called whenever a license type could not be determined when a package uses the deprecated `licenses` field (which is an array of license types) in its package.json. It should return the license type to use. By default, the plugin prints a warning message to the console and chooses the first license type. You should use the `preferredLicenseTypes` option instead of this one.

**\*\*\*`handleMissingLicenseType`\*\*\*** - do something when a package is missing a license type (default: disabled)

Example:

```
```javascript
new LicenseWebpackPlugin({
  handleMissingLicenseType: (packageName) => {
    console.log(packageName);
    return null;
  }
});
```
```

Notes: You can return a license type from this function, but it is a better idea to use the `licenseTypeOverrides` option.

**\*\*\*`skipChildCompilers`\*\*\*** - do not apply the plugin to child webpack compilers (default: applies to child compilers too)

Example:

```
```javascript
new LicenseWebpackPlugin({
```

```
skipChildCompilers: true
});
```
```

ISC

## # Migration Guide

### ## 3.x to 4.x

\* Support for webpack 4 and below are now removed. Please use an older version of the plugin if you need it to work with webpack 4 or below.

### ## 2.x to 3.x

\* Most builds can upgrade directly from 2.x to 3.x without having to change anything.

\* The ``webpack-sources`` package is no longer bundled with the plugin nor listed as a peerDependency of the plugin. This allows the plugin to use the same version of ``webpack-sources`` that comes with the ``webpack`` installation.

### ## 1.x to 2.x

\* The plugin no longer requires any explicit configuration. By default it will pick up all license types.

\* The plugin no longer writes warnings/errors directly to console and instead reports warnings/errors to webpack.

\* The ``modulesDirectories`` option defaults to null and requires full paths if specified. When ``modulesDirectories`` is null, third-party modules may be picked up from any directory.

\* The following options have been removed:

- ``buildRoot`` - The plugin can work reliably without this option having to be specified now. You can remove it from your configuration.
- ``suppressErrors`` - Use the ``stats`` option on the plugin config instead to turn off warnings/errors.
- ``pattern`` - Use the new ``licenseInclusionTest`` option instead.
- ``outputTemplate`` - Use the new ``renderLicenses`` option instead.
- ``includePackagesWithoutLicense`` - Use the new ``licenseInclusionTest`` option instead.
- ``unacceptablePattern`` - Use the new ``unacceptableLicenseTest`` option instead.
- ``abortOnUnacceptableLicense`` - The plugin will send an error to webpack whenever an unacceptable license is found. Use the new ``handleUnacceptableLicense`` option if you want to do something in addition to that.
- ``bannerTemplate`` - Use the new ``renderBanner`` option instead.
- ``includedChunks`` - Use the new ``chunkIncludeExcludeTest`` option instead.
- ``excludedChunks`` - Use the new ``chunkIncludeExcludeTest`` option instead.
- ``additionalPackages`` - Use the new ``additionalChunkModules`` or ``additionalModules`` option instead.

\* Check the [documentation](DOCUMENTATION.md) for information on how to use the new options.

### ## 0.6.x to 1.x

\* Change ``require('license-webpack-plugin')`` to ``require('license-webpack-plugin').LicenseWebpackPlugin``.

\* Change ``includeUndefined`` in the plugin options to ``includePackagesWithoutLicense``.

\* The following options have been removed:

- ``addVersion`` - Use the new ``outputTemplate`` option to configure an ejs template to be used for writing the output.
- ``addLicenseText`` - Use the new ``outputTemplate`` option to configure an ejs template to be used for writing the output.
- ``addUrl`` - Use the new ``outputTemplate`` option to configure an ejs template to be used for writing the output.
- ``filename`` - The plugin outputs an individual file per chunk now and is configured by the ``outputFilename`` option. Check the ``README.md`` file to see how it works.

## # Changelog

All notable changes to this project will be documented in this file.

The format is based on [Keep a Changelog](https://keepachangelog.com/en/1.0.0/), and this project adheres to [Semantic Versioning](https://semver.org/spec/v2.0.0.html).

## [4.0.2] - 2022-02-10

### ### Fixed

- Fix regression when using dynamic imports
- Fix regression of `excludedPackageTest` option not being respected

## [4.0.1] - 2022-01-27

### ### Changed

- Performance improvement: use resolve data already present in most modules
- Performance improvement: use throwIfNoEntry option on filesystem operations to improve performance

## [4.0.0] - 2021-11-11

### ### Fixed

- Fix `TypeError: item.node is not a function` errors by including `webpack-sources@^3.0.0` as direct dependency.

### ### Removed

- Remove support for webpack versions less than 5. Only webpack 5 is supported as of this version.

## [3.0.0] - 2021-10-02

### ### Fixed

- Fix `TypeError: item.node is not a function` errors from webpack 5.47.0 and later

## [2.3.21]

- 2021-08-20

### ### Fixed

- Fix delegated modules giving errors about nonexistent `package.json` file

## [2.3.20] - 2021-07-12

### ### Fixed

- Fixed an issue where dependent and cached modules' licenses were not being added

## [2.3.19] - 2021-05-31

### ### Changed

- Optimized calls to compilation.getStats() by filtering out unnecessary stats information

### ### Fixed

- Fixed banners not working on webpack v5. Check the [documentation](DOCUMENTATION.md) for important configuration changes required for banners to work on webpack v5.

## [2.3.18] - 2021-05-07

### ### Changed

- Register webpack as optional peer dependency



## [2.3.17] - 2021-04-10

### Changed

- Performance improvements in large repos

## [2.3.16] - 2021-03-26

### Fixed

- Fix data URI modules giving errors about nonexistent `/package.json` file

## [2.3.15] - 2021-03-03

### Fixed

- Fix remote modules giving errors about nonexistent `/package.json` file

## [2.3.14] - 2021-02-19

### Fixed

- Fix ignored modules giving errors about nonexistent  
`/package.json` file

## [2.3.13] - 2021-02-12

### Fixed

- Fix container entry modules giving errors about nonexistent `/package.json` file

## [2.3.12] - 2021-02-11

### Fixed

- Fix files processed by loaders not getting processed correctly
- Fix errors about `/package.json` when using webpack module federation

## [2.3.11] - 2021-01-11

### Fixed

- Fix performance regression by caching webpack stats object

## [2.3.10] - 2021-01-07

### Fixed

- Remove external dependencies (which can't be resolved during build time) from processing

## [2.3.9] - 2020-12-25

### Fixed

- Fix webpack license output being missing when using webpack v5

## [2.3.8] - 2020-12-24

### Fixed

- Fix missing ES modules from output when using webpack v5
- Fix explicit setting of `perChunkOutput: true` not being honored by the plugin

## [2.3.7] - 2020-12-24

### Fixed

- Fix error when `perChunkOutput` is set to `false` and webpack 4 is used: `TypeError: Cannot read property 'tap' of undefined`

## [2.3.6] - 2020-12-24

###

Fixed

- Fix warning when `perChunkOutput` is set to `false`: `WARNING in Conflict: Multiple assets emit different content to the same filename <filename>`

## [2.3.5] - 2020-12-24

### Fixed

- Fix warning when `perChunkOutput` is set to `false`: `DeprecationWarning: Compilation.assets will be frozen in future, all modifications are deprecated`. This reintroduces the warning `perChunkOutput` is set to `false`: `WARNING in Conflict: Multiple assets emit different content to the same filename <filename>`.

## [2.3.4] - 2020-12-23

### Fixed

- Fix warning when `perChunkOutput` is set to `false`: `WARNING in Conflict: Multiple assets emit different content to the same filename <filename>`

## [2.3.3] - 2020-12-23

### Fixed

- Fix deprecation messages in webpack 5: `[DEP\_WEBPACK\_CHUNK\_MODULES\_ITERABLE] DeprecationWarning: Chunk.modulesIterable: Use new ChunkGraph API` and  
`[DEP\_WEBPACK\_CHUNK\_ENTRY\_MODULE] DeprecationWarning: Chunk.entryModule: Use new ChunkGraph API`

## [2.3.2] -

2020-12-07

### Fixed

- Fix directory permission of dist folder by publishing from Linux instead of Windows

## [2.3.1] - 2020-10-24

### Fixed

- Fix deprecation message in webpack 5: `[DEP\_WEBPACK\_COMPILATION\_OPTIMIZE\_CHUNK\_ASSETS] DeprecationWarning: optimizeChunkAssets is deprecated`

## [2.3.0] - 2020-07-12

### Added

- Allow variables like `[hash]` in `outputFilename` when `perChunkOutput` is set to `false`.

## [2.2.0] - 2020-05-03

### Added

- Added option `skipChildCompilers` to skip applying the plugin to child compilers.

## [2.1.4] - 2020-03-13

### Fixed

- Allow for multiple included/excluded chunks

## [2.1.3] - 2019-10-13

### Fixed

- Ignore package.json files that don't have a `name` field when searching for a package's `package.json` file.

## [2.1.2] - 2019-08-11

### Fixed

- Fix `licenseTemplateDir` option not being able to find template files.

## [2.1.1] - 2019-02-23

### Fixed

- Handle missing license template file when `licenseTemplateDir` is used

## [2.1.0] - 2019-01-12

###

Changed

- License report is now sorted by module name.

## [2.0.4] - 2018-11-30

### Fixed

- Switch `@types/webpack-sources` to a regular dependency instead of a devDependency.

## [2.0.3] - 2018-11-04

### Fixed

- Handle auto exclusion of `license`, if the guessed name is a folder instead of file.
- Ignore directories found in `SEE LICENSE IN`-style licenses.

## [2.0.2] - 2018-10-09

### Fixed

- Handle object-style `license` field in `package.json`

## [2.0.1] - 2018-09-23

### Fixed

- Handle invalid filename in `SEE LICENSE IN`-style licenses in `package.json` files.

## [2.0.0] - 2018-09-23

### Added

- `licenseInclusionTest` option
- `unacceptableLicenseTest` option
- `handleUnacceptableLicense` option
- `handleMissingLicenseText` option
- `licenseTextOverrides` option
- `renderLicenses` option
- `renderBanner` option
- `chunkIncludeExcludeTest` option
- `additionalChunkModules` option
- `additionalModules` option
- `preferredLicenseTypes` option
- `handleLicenseAmbiguity` option

- 
- ``handleMissingLicenseType`` option
- ``excludedPackageTest`` option
- ``silent`` option

#### ### Changed

- No explicit configuration is necessary anymore. All license types will be included.
- There is no dependency on ``ejs`` anymore. Instead, render functions are used.
- Packages are identified by traversing directories upward until a ``package.json`` file is found. This should make package identification more reliable.
- Use webpack's ``inputFileSystem`` instead of ``fs`` module.
- In order to avoid issues with source maps, the plugin hook is done at a different phase of the webpack build.
- The ``modulesDirectories`` option requires full paths and is now used to restrict which directories a module may be detected from.
- License filename detection is now done by regular expression which means more license files should be picked up now.
- When license text cannot be found, the plugin will no longer write the license type as the license text. Instead it will omit printing the license text. (The license type will still be written though.)
- The ``webpack-sources`` dependency has moved from a peer dependency to a direct dependency.

#### ### Removed

- ``suppressErrors`` option
- ``pattern`` option
- ``outputTemplate`` option
- ``includePackagesWithoutLicense`` option
- ``unacceptablePattern`` option
- ``abortOnUnacceptableLicense`` option
- ``bannerTemplate`` option
- ``includedChunks`` option
- ``excludedChunks`` option
- ``additionalPackages`` option
- ``buildRoot`` option

#### ### Fixed

- No more interference with source maps

## [1.5.0] - 2018-09-20

#### ### Added

- Support for absolute paths in ``modulesDirectories`` option

#### ### Fixed

- Support symlinked ``node_modules`` folder

## [1.4.0] - 2018-08-05

#### ### Changed

- Support license filenames with British spelling: "licence"

## [1.3.1] - 2018-03-22  
### Fixed  
- Add documentation for license info in banner template

## [1.3.0] - 2018-03-10  
### Added  
- Support adding license info to banner template

## [1.2.3] - 2018-03-04  
### Fixed  
- Resolved deprecation warning from webpack

##  
[1.2.2] - 2018-03-04  
### Fixed  
- Empty license output on webpack versions prior to v4

## [1.2.1] - 2018-03-04  
### Fixed  
- Use async webpack compiler hook

## [1.2.0] - 2018-03-04  
### Added  
- Support multiple modules directories

## [1.1.2] - 2018-02-24  
### Fixed  
- Search file dependencies of webpack build

## [1.1.1] - 2017-10-20  
### Fixed  
- Fixed `peerDependencies` declaration in `package.json`

## [1.1.0] - 2017-10-04  
### Changed  
- Normalize line endings in license files

## [1.0.2] - 2017-09-30  
### Fixed  
- Scan files referenced by `rootModule` in the build.

## [1.0.1] - 2017-09-14  
### Fixed  
- Exception when stray file is in `node\_modules` folder

## [1.0.0] - 2017-08-12  
### Added  
- Option to output files on a per-chunk basis

- Option to add banner to chunks
- Option to render license information via ejs template

#### ### Changed

- Use explicit export of `LicenseWebpackPlugin` instead of default export
- Rename `includeUndefined` option to `includePackagesWithoutLicense`

#### ###

##### Removed

- Option to add version number to output
- Option to output license text
- Option to output package url
- Filename option

## [0.6.0] - 2017-08-04

#### ### Added

- Option to show/hide version number of packages

## [0.5.1] - 2017-07-05

#### ### Fixed

- Handle webpack contexts which are inside `node\_modules`

## [0.5.0] - 2017-04-08

#### ### Added

- Option to detect and abort build when unacceptable licenses are found

## [0.4.3] - 2017-03-12

#### ### Fixed

- Handle multiple @ signs in file paths

## [0.4.2] - 2017-01-19

#### ### Fixed

- Create output directory if it does not exist

## [0.4.1] - 2016-12-18

#### ### Fixed

- Print error message properly when `pattern` option is not supplied

## [0.4.0] - 2016-11-23

#### ### Added

- Option to override license types

#### ### Fixed

- Support old `package.json` license structure
- Tests work on Windows

## [0.3.0] - 2016-10-22

#### ### Added

- Option to suppress error messages

## [0.2.1] - 2016-10-22

### Fixed

- Ignore files outside of `node\_modules`

## [0.2.0] - 2016-09-24

###

Added

- Option to output url of a package

- Option to include packages which don't have license

- Option to output license text of a package

## [0.1.4] - 2016-07-04

Refactoring release, no changes to functionality / API

## [0.1.3] - 2016-07-04

Refactoring release, no changes to functionality / API

## [0.1.2] - 2016-07-03

### Fixed

- Handle scoped packages properly

## [0.1.1] - 2016-07-02

### Added

- Initial release

[0.1.1]: <https://github.com/xz64/license-webpack-plugin/tree/v0.1.1>

[0.1.2]: <https://github.com/xz64/license-webpack-plugin/compare/v0.1.1...v0.1.2>

[0.1.3]: <https://github.com/xz64/license-webpack-plugin/compare/v0.1.2...v0.1.3>

[0.1.4]: <https://github.com/xz64/license-webpack-plugin/compare/v0.1.3...v0.1.4>

[0.2.0]: <https://github.com/xz64/license-webpack-plugin/compare/v0.1.4...v0.2.0>

[0.2.1]: <https://github.com/xz64/license-webpack-plugin/compare/v0.2.0...v0.2.1>

[0.3.0]: <https://github.com/xz64/license-webpack-plugin/compare/v0.2.1...v0.3.0>

[0.4.0]: <https://github.com/xz64/license-webpack-plugin/compare/v0.3.0...v0.4.0>

[0.4.1]:

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[0.4.2]: <https://github.com/xz64/license-webpack-plugin/compare/v0.4.1...v0.4.2>

[0.4.3]: <https://github.com/xz64/license-webpack-plugin/compare/v0.4.2...v0.4.3>

[0.5.0]: <https://github.com/xz64/license-webpack-plugin/compare/v0.4.3...v0.5.0>

[0.5.1]: <https://github.com/xz64/license-webpack-plugin/compare/v0.5.0...v0.5.1>

[0.6.0]: <https://github.com/xz64/license-webpack-plugin/compare/v0.5.1...v0.6.0>

[1.0.0]: <https://github.com/xz64/license-webpack-plugin/compare/v0.6.0...v1.0.0>

[1.0.1]: <https://github.com/xz64/license-webpack-plugin/compare/v1.0.0...v1.0.1>

[1.0.2]: <https://github.com/xz64/license-webpack-plugin/compare/v1.0.1...v1.0.2>

[1.1.0]: <https://github.com/xz64/license-webpack-plugin/compare/v1.0.2...v1.1.0>

[1.1.1]: <https://github.com/xz64/license-webpack-plugin/compare/v1.1.0...v1.1.1>

[1.1.2]: <https://github.com/xz64/license-webpack-plugin/compare/v1.1.1...v1.1.2>

[1.2.0]:

<https://github.com/xz64/license-webpack-plugin/compare/v1.1.2...v1.2.0>

[1.2.1]: <https://github.com/xz64/license-webpack-plugin/compare/v1.2.0...v1.2.1>

[1.2.2]: <https://github.com/xz64/license-webpack-plugin/compare/v1.2.1...v1.2.2>

[1.2.3]: <https://github.com/xz64/license-webpack-plugin/compare/v1.2.2...v1.2.3>

[1.3.0]: <https://github.com/xz64/license-webpack-plugin/compare/v1.2.3...v1.3.0>

[1.3.1]: <https://github.com/xz64/license-webpack-plugin/compare/v1.3.0...v1.3.1>

[1.4.0]: <https://github.com/xz64/license-webpack-plugin/compare/v1.3.1...v1.4.0>

# 1.1002 moxystudio/node-cross-spawn 7.0.3

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# 1.1003 node-tmp 0.2.1

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Martin Richards

23 February 2007

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="\$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">

<PropertyGroup>

<TpnFile>\$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>

</PropertyGroup>

<!--

Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.

-->

<ItemGroup>

<TpnRepo Include="dotnet/runtime" />

<TpnRepo Include="dotnet/aspnetcore" />

<TpnRepo Include="dotnet/installer" />

<TpnRepo Include="dotnet/roslyn-analyzers" />

<TpnRepo Include="dotnet/templating" />

<TpnRepo Include="dotnet/winforms" />

```

<TpnRepo Include="dotnet/wpf" />

<!--
 Additional repos that should be included but don't have any
third-party-notices files:
 dotnet/efcore
 dotnet/emsdk
 dotnet/extensions
 dotnet/icu
 dotnet/sdk
 dotnet/windowsdesktop
-->

<TpnRepo Condition="'%(TpnRepo.Branch)' == ''" Branch="main" />

<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
<PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>

<RegenerateThirdPartyNotices
 TpnFile="$(TpnFile)"
 PotentialTpnPaths="@ (PotentialTpnPath)"
 TpnRepos="@ (TpnRepo)" />

<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>

</Project>

```

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In the event that we accidentally failed to list a required notice, please bring it to our attention. Post an issue or email us:

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-----

We use smb config template files in our tests (as provided in <https://github.com/samba-team/samba/blob/master/examples/smb.conf.default>):

\*

<https://github.com/dotnet/runtime/blob/main/src/libraries/System.Net.NetworkInformation/tests/FunctionalTests/Net>

workFiles/smb.conf

\*

[https://github.com/dotnet/runtime/blob/main/src/libraries/System.Net.NetworkInformation/tests/FunctionalTests/NetWorkFiles/smb\\_with\\_commented\\_wins.conf](https://github.com/dotnet/runtime/blob/main/src/libraries/System.Net.NetworkInformation/tests/FunctionalTests/NetWorkFiles/smb_with_commented_wins.conf)

\*

[https://github.com/dotnet/runtime/blob/main/src/libraries/System.Net.NetworkInformation/tests/FunctionalTests/NetWorkFiles/smb\\_without\\_wins.conf](https://github.com/dotnet/runtime/blob/main/src/libraries/System.Net.NetworkInformation/tests/FunctionalTests/NetWorkFiles/smb_without_wins.conf)

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-----

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Version 3, 29 June 2007

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```
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```
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xxHash - Extremely Fast Hash algorithm

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You can contact the author at:

- xxHash homepage: <https://www.xxhash.com>

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implementations of computing and using the "magic number" approach to dividing by constants, including codegen instructions. The unsigned division incorporates the "round down" optimization per `ridiculous_fish`.

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<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
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 <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
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 <ItemGroup>
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 <ProjectReference Include="$(TestLibraryProjectPath)" />
 </ItemGroup>
</Project>
```

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Supports browser & node.js environment.

Demo : <https://uaparser.dev>

Source : <https://github.com/faisalman/ua-parser-js> \*/

////////////////////////////////////

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Version 3, 19 November 2007

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