



# Open Source Used In dna\_ncp\_node Hulk

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# 1.3 is-buffer 2.0.4

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# 1.5 mime-db 1.44.0

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# 1.6 resolve 1.10.1

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# 1.7 bindings 1.2.1

### 1.7.1 Available under license:

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node-bindings

### Helper module for loading your native module's .node file

This is a helper module for authors of Node.js native addon modules.

It is basically the "swiss army knife" of `require()`ing your native module's `.node` file.

Throughout the course of Node's native addon history, addons have ended up being compiled in a variety of different places, depending on which build tool and which version of node was used. To make matters worse, now the \_gyp\_ build tool can produce either a \_Release\_ or \_Debug\_ build, each being built into different locations.

This module checks \_all\_ the possible locations that a native addon would be built at, and returns the first one that loads successfully.

```
Installation
_____
Install with `npm`:
" bash
$ npm install bindings
Or add it to the "dependencies" section of your _package.json_ file.
Example
`require()`ing the proper bindings file for the current node version, platform
and architecture is as simple as:
``` js
var bindings = require('bindings')('binding.node')
// Use your bindings defined in your C files
bindings.your_c_function()
Nice Error Output
When the `.node` file could not be loaded, `node-bindings` throws an Error with
a nice error message telling you exactly what was tried. You can also check the
`err.tries` Array property.
Error: Could not load the bindings file. Tried:
```

```
/Users/nrajlich/ref/build/binding.node
/Users/nrajlich/ref/build/Debug/binding.node
/Users/nrajlich/ref/build/Release/binding.node
/Users/nrajlich/ref/out/Debug/binding.node
/Users/nrajlich/ref/Debug/binding.node
/Users/nrajlich/ref/out/Release/binding.node
/Users/nrajlich/ref/Release/binding.node
/Users/nrajlich/ref/build/default/binding.node
/Users/nrajlich/ref/compiled/0.8.2/darwin/x64/binding.node
 at bindings (/Users/nrajlich/ref/node modules/bindings/bindings.js:84:13)
 at Object.<anonymous> (/Users/nrajlich/ref/lib/ref.js:5:47)
 at Module._compile (module.js:449:26)
 at Object.Module. extensions...js (module.js:467:10)
 at Module.load (module.js:356:32)
 at Function.Module._load (module.js:312:12)
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Found in path(s):

<sup>\* /</sup>opt/cola/permits/1112921116\_1607362434.89/0/bindings-1-2-1-2-tgz/package/README.md

# 1.8 ansistyles 0.1.3

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# 1.9 apollo-server-core 1.3.6

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# 1.11 dataloader 1.4.0

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### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Deriv	red Yea	ır Ow	ner	GPL-	
	from		CO	compatible? (1)		
0.9.0 thru 1.2		1991-	1995 CV	VI	yes	
1.3 thru 1	.5.2 1.2	1995	-1999 C	NRI	yes	
1.6	1.5.2	2000	CNRI	no		
2.0	1.6	2000	BeOper	n.com r	10	
1.6.1	1.6	2001	CNRI	yes	(2)	
2.1	2.0+1.6	5.1 2001	PSF	no		
2.0.1	2.0+1.0	6.1 2001	PSF	ye	es	
2.1.1	2.1+2.0	0.1 2001	PSF	ye	es	
2.1.2	2.1.1	2002	PSF	yes		
2.1.3	2.1.2	2002	PSF	yes		
2.2 and above 2.1.1 2001-now PSF yes						

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Tests included here are based on build output generated by the six-speed benchmark suite.

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### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel Email local part: ph10 Email domain: cam.ac.uk

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Deriv	ed Yea	r Own	er GPL-	
from			compatible? (1)		
0.9.0 thru	1.2	1991-1	1995 CW	I yes	
1.3 thru 1.	.5.2 1.2	1995	-1999 CN	IRI yes	
1.6	1.5.2	2000	CNRI	no	
2.0	1.6	2000	BeOpen.	com no	
1.6.1	1.6	2001	CNRI	yes (2)	
2.1	2.0+1.6	.1 2001	PSF	no	
2.0.1	2.0+1.6	5.1 2001	PSF	yes	
2.1.1	2.1+2.0	0.1 2001	PSF	yes	
2.1.2	2.1.1	2002	PSF	yes	

2.1.3 2.1.2 2002 PSF yes 2.2 and above 2.1.1 2001-now PSF yes

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\*/opt/cola/permits/1110632783\_1607450976.71/0/isarray-1-0-0-7-tgz/package/README.md

### 1.36 etag 1.8.1

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## 1.47 object-keys 0.4.0

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### 1.48 xtend 2.1.2

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# 1.49 simple-swizzle 0.2.2

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### 1.50 inherits 2.0.4

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### 1.51 statuses 1.5.0

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# 1.52 component-bind 1.0.0

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# 1.53 uri-js 4.2.2

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# URI.js

URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc). It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

URI.js has an extensive test suite, and works in all (Node.js, web) environments. It weighs in at 6.2kb (gzipped, 16kb deflated).

```
## API
### Parsing
URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{
// scheme: "uri",
// userinfo: "user:pass",
// host: "example.com",
// port: 123,
// path: "/one/two.three",
// query: "q1=a1&q2=a2",
// fragment : "body"
//}
### Serializing
URI.serialize({scheme: "http", host: "example.com", fragment: "footer"}) === "http://example.com/#footer"
### Resolving
URI.resolve("uri://a/b/c/d?q", "../../g") === "uri://a/g"
### Normalizing
URI.normalize("HTTP://ABC.com:80/%7Esmith/home.html") === "http://abc.com/~smith/home.html"
### Comparison
URI.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a/./b/../b/%63/%7bfoo%7d") === true
### IP Support
//IPv4 normalization
URI.normalize("//192.068.001.000") === "//192.68.1.0"
//IPv6 normalization
```

```
URI.normalize("//[2001:0:0DB8::0:0001]") === "//[2001:0:db8::1]"
//IPv6 zone identifier support
URI.parse("//[2001:db8::7%25en1]");
//returns:
//{
// host: "2001:db8::7%en1"
//}
### IRI Support
//convert IRI to URI
URI.serialize(URI.parse("http://exampl.org/ros")) === "http://xn--exampl-gva.org/ros%C3%A9"
//convert URI to IRI
URI.serialize(URI.parse("http://xn--exampl-gva.org/ros%C3%A9"), {iri:true}) === "http://exampl.org/ros"
### Options
All of the above functions can accept an additional options argument that is an object that can contain one or more
of the following properties:
* `scheme` (string)
Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.
* `reference` (string)
If set to "suffix", it indicates that the URI is in the suffix format, and the validator will use the option's 'scheme'
property to determine the URI's scheme.
* `tolerant` (boolean, false)
If set to `true`, the parser will relax URI resolving rules.
* `absolutePath` (boolean, false)
If set to `true`, the serializer will not resolve a relative `path` component.
* `iri` (boolean, false)
If set to 'true', the serializer will unescape non-ASCII characters as per [RFC
3987](http://www.ietf.org/rfc/rfc3987.txt).
* `unicodeSupport` (boolean, false)
If set to `true`, the parser will unescape non-ASCII characters in the parsed output as per [RFC
3987](http://www.ietf.org/rfc/rfc3987.txt).
```

```
* `domainHost` (boolean, false)
```

If set to `true`, the library will treat the `host` component as a domain name, and convert IDNs (International Domain Names) as per [RFC 5891](http://www.ietf.org/rfc/rfc5891.txt).

```
## Scheme Extendable
```

URI.js supports inserting custom [scheme](http://en.wikipedia.org/wiki/URI\_scheme) dependent processing rules. Currently, URI.js has built in support for the following schemes:

```
* http \[[RFC 2616](http://www.ietf.org/rfc/rfc2616.txt)\]
* https \[[RFC 2818](http://www.ietf.org/rfc/rfc2818.txt)\]
* mailto \[[RFC 6068](http://www.ietf.org/rfc/rfc6068.txt)\]
* urn \[[RFC 2141](http://www.ietf.org/rfc/rfc2141.txt)\]
* urn:uuid \[[RFC 4122](http://www.ietf.org/rfc/rfc4122.txt)\]
### HTTP Support
URI.equal("HTTP://ABC.COM:80", "http://abc.com/") === true
### Mailto Support
URI.parse("mailto:alpha@example.com,bravo@example.com?subject=SUBSCRIBE&body=Sign%20me%20up!");
//returns:
//{
// scheme : "mailto",
// to: ["alpha@example.com", "bravo@example.com"],
// subject : "SUBSCRIBE",
// body : "Sign me up!"
//}
URI.serialize({
 scheme: "mailto",
 to: ["alpha@example.com"],
 subject: "REMOVE",
 body: "Please remove me",
 headers: {
 cc: "charlie@example.com"
}) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
### URN Support
URI.parse("urn:example:foo");
//returns:
//{
// scheme : "urn",
```

```
// nid : "example",
// nss : "foo",
//}
#### URN UUID Support
URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");
//returns:
//{
// scheme : "urn",
// nid: "example",
// uuid: "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}
## Usage
To load in a browser, use the following tag:
<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>
To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:
npm install uri-js
Then, in your code, load it using:
const URI = require("uri-js");
If you are writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:
import * as URI from "uri-js";
Or you can load just what you need using named exports:
import { parse, serialize, resolve, resolveComponents, normalize, equal, removeDotSegments, pctEncChar,
pctDecChars, escapeComponent, unescapeComponent } from "uri-js";
## Breaking changes
### Breaking changes from 3.x
```

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but has two new properties: `nid` which contains the Namspace Identifier, and `nss` which contains the Namspace Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN scheme handler.

The UUID of a URN can now be found in the `uuid` property.

```
### Breaking changes from 2.x
```

URI validation has been removed as it was slow, exposed a vulnerabilty, and was generally not useful.

### Breaking changes from 1.x

The 'errors' array on parsed components is now an 'error' string.

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```
/** @license URI.js v4.2.1 (c) 2011 Gary Court. License: http://github.com/garycourt/uri-js */ /**
```

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4f6f600/dist/es5/uri.all.js
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* http://docs.jquery.com/QUnit
```

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\* isDump

- \* Copyright (c) 2008 Ariel Flesler aflesler(at)gmail(dot)com | http://flesler.blogspot.com
- \* Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
- \* Date: 5/15/2008
- \* @projectDescription Advanced and extensible data dumping for Javascript.
- \* @version 1.0.0
- \* @author Ariel Flesler

\* @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}

## Found in path(s):

 $*/opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/tests/qunit.js$ 

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- \* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/esnext/uri.js
- \* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/src/uri.ts

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

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merge(ALPHA\$\$, DIGIT\$\$, \"[\\\-\\\\-\\\\-]\", UCSCHAR\$\$),\n\t\tSCHEME\$ = subexp(ALPHA\$\$ +

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merge(ALPHA$$, DIGIT$$, \"[\\\-\\\.]\") + \"*\"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ +
\"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ =
 subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$$) + DIGIT$$
''' + subexp(''[1-9]\" + DIGIT$$) + ''\" + DIGIT$$),\n\t\DEC_OCTET_RELAXED$ = subexp(subexp(''25[0-10]\" + subexp(''1-9]\" + DIGIT$$)
5\") + \"\" + subexp(\"2[0-4]\" + DIGIT$$) + \"\" + subexp(\"1\" + DIGIT$$) + \"\\" + subexp(\"0?[1-1]\" + DIGIT$$)
9]\" + DIGIT$$) + \"|0?0?\" + DIGIT$$), //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC OCTET RELAXED$ + \"\\\\.\" + DEC OCTET RELAXED$ + \"\\\\.\" +
DEC_OCTET_RELAXED$ + \"\\\\\" + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ +
\ ''(1,4)''),\ h(tLS32\ = subexp(subexp(H16\$ + \''))\: '' + H16\$) + \ '' + IPV4ADDRESS\$),\ h(t) tIPV6ADDRESS1\$
  subexp(H16\$ + \''\') + \''\{6\}\'' + LS32\$), //
= subexp(
h16 \":\") ls32\n\t\tIPV6ADDRESS2$ = subexp(
  \"\\\:\\\:\" + subexp(H16$ + \"\\\\:\")
+ "{5}" + LS32$), //
   \"::\" 5(h16 \":\") ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
               H16\$) + "?\|\:" + subexp(H16\$ + \"\\\:\") + \"{4}\" + LS32\$), //[
  h16 ] \"::\" 4( h16 \":\" )
subexp(H16$ + \"\\\\:\") + \"{3}\" + LS32$), //[ *1( h16 \":\" ) h16 ] \"::\" 3( h16 \":\" ) ls32\n\t\tIPV6ADDRESS5$
= subexp(subexp(H16\$ + \''') + \''(0,2)'' + H16\$) + \''?'()': '' + subexp(H16\$ + \''') + \''(2)'' + \''(2)''' + H16\$) + (1,0
LS32$), //[ *2( h16 \":\" ) h16 ] \"::\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6$ = subexp(subexp(H16$ +
"(\) + "(0,3) + H16) + "?(\) + "
  H16$ + \"\\\\:\"
  + LS32$), //[ *3( h16 \":\" ) h16 ] \"::\" h16
+ LS32$), //[ *4( h16 \":\" ) h16 ] \"::\"
  ls32\n\t\tPV6ADDRESS8$ =
subexp(subexp(H16\$ + \'')) + \'(0,5)'' + H16\$) + \''?\'':\''
   + H16$), //[ *5( h16
   \":\" ) h16 ] \"::\"
  ), //[ *6( h16 \":\" ) h16 ] \"::\"\n\t\tIPV6ADDRESS$ =
+\"?\\\:\\\:\"
 subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$, IPV6ADDRESS4$, IPV6ADDRESS5$,
IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$, IPV6ADDRESS9$].join(\"\")),\n\t\tZONEID$ =
subexp(subexp(UNRESERVED\$\$ + \"|\" + PCT ENCODED\$) + \"+\"), //RFC 6874\n\t tIPV6ADDRZ\$ =
 subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$), //RFC 6874\n\t\tIPV6ADDRZ_RELAXED$ =
 subexp(IPV6ADDRESS\$ + subexp(\"\\\\%25\\\\%(?!\" + HEXDIG\$\$ + \"{2})\") + ZONEID\$), //RFC 6874, with
relaxed\ parsing\ rules \\ \ |\ tIPVFUTURE\$ = subexp(\\ \ |\ vV]\\ \ + \ HEXDIG\$\$ + \\ \ + \ |\ h.\\ \ + \ herge(UNRESERVED\$\$, \\ \ + \ herge(UNRESERVED\$, \\ \ + \
SUB\_DELIMS\$\$, "[\]") + "+\"), n\ttlP\_LITERAL\$ = subexp(\]" "\" + subexp(IPV6ADDRZ\_RELAXED\$ + 1), n\ttlP\_LITERAL$ = subexp(\]" "\" + subexp(\
\"|\" + IPV6ADDRESS$ + \"|\" + IPVFUTURE$) + \"\\\]\"), //RFC 6874\n\t\tREG_NAME$ =
subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \")\" + \"|\" +
REG_NAME\$), \\ \\ | h(t)PORT\$ = subexp(DIGIT\$\$ + "*\"), \\ | h(t)AUTHORITY\$ = subexp(subexp(USERINFO\$ + t)), \\ | h(t)PORT\$ = subexp(USERINFO\$ + t)), \\ | h(t)PORT\$ = su
\"@\") +\"?\" + HOST$ + subexp(\"\\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \\"\\" +
merge(UNRESERVED\$\$, SUB\_DELIMS\$\$, "[\\\\e]\")), \nt\tSEGMENT\$ = subexp(PCHAR\$ + tSEGMENT\$), \nt\tSEGMENT\$ = 
subexp(subexp(PCT\_ENCODED\$ + \"\" + merge(UNRESERVED\$\$, SUB\_DELIMS\$\$, \"[\'\"\]) + merge(UNRESERVED\$\$, SUB\_DELIMS\$\$, \"[\'\"\]) + merge(UNRESERVED\$\$, SUB\_DELIMS\$\$, \"[\'\]) + merge(UNRESERVED\$\$, SUB\_DELIMS\$\$, \"[\]) + merge(UNRESERVED\$\$, SUB\_DELIMS\$\$, \"[\]]) + merge(UNRESERVED\$\$, SUB\_DELIMS\$\$, \"[\]]) + merge(UNRESERVED\$\$, \"[\]]) + merge(
\label{eq:linear_abended} $$ ''+'', h(t)tPATH_ABEMPTY$ = subexp(subexp(''')) + SEGMENT$) + ''*'), h(t)tPATH_ABSOLUTE$ = $$ (subexp(su
 subexp(\"\\\\\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"), //simplified\n\t\tPATH_NOSCHEME$
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_EMPTY$ = \"(?!\" + PCHAR$ +
\"\ + \"\\",\n\t\tPATH_ABSOLUTE$ + \"\\" + PATH_NOSCHEME$ + \"\\" + PATH_NOSCHEME$
"\|'' + PATH_ROOTLESS\$ + "\|'' + PATH_EMPTY\$,,\n\t\tQUERY\$ = subexp(subexp(PCHAR\$ + \"\\" + \" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + \"\" + 
\"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
```

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"?",\httkELATIVE_PART$ = subexp(subexp()"\\\\\\" + AUTHORITY$ + PATH_ABEMPTY$) + \"\" + \"\" + \"\" + \"\\" + \"
'''?''),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"\" + RELATIVE$),\n\t\tABSOLUTE_URI$ =
 \"^(\" + SCHEME$ + \")\\\:\" + subexp(subexp(\"\\\/\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + \"?(\" + \")
HOST$ + \")\" + subexp(\"\\\:(\" + PORT$ + \")\") + \"?\\" + PATH ABEMPTY$ + \"\\" +
PATH_ABSOLUTE$ + \"\" + PATH_ROOTLESS$ + \"\" + PATH_EMPTY$ + \"\") + subexp(\"\\\?(\" +
 QUERY$ + \")\") + \"?\" + subexp(\"\\\#(\" + FRAGMENT$ + \")\") + \"?\",\n\t\tRELATIVE_REF$ = \"^(){0}\" +
 subexp(subexp(\"\\\\\\\(" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" +
PORT$ + \")\") + \"?(\" + PATH_ABEMPTY$ + \"\\" + PATH_ABSOLUTE$ + \"\\" +
PATH_NOSCHEME$ + \"\\" + PATH_EMPTY$ + \"\\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\" +
 subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tABSOLUTE REF$ = \"^(\" + SCHEME$ + \")\\\\:\" +
subexp(subexp(\"\\\\\\(\" + subexp(\"\\"+ USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\:(\" +
PORT$ + \")\") + \"?(\" + PATH_ABEMPTY$ + \"\\" + PATH_ABSOLUTE$ + \"\\" +
PATH ROOTLESS$ + \"\\" + PATH EMPTY$ + \"\\") + subexp(\"\\\?(\" + QUERY$ + \")\") +
"?\",\n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"\\\#(\" + FRAGMENT$ + \")\") +
\"?$\".\n\t\tAUTHORITY REF$ = \"\" + subexp(\"(\" + USERINFO$ + \")\@\") + \"?(\" + HOST$ + \")\" +
 subexp(\"\\\:(\" + PORT\$ + \")\") + \"?\$\"\backslash n \setminus t; \land n \setminus treturn \{\n \setminus tNOT\_SCHEME : new RegExp(merge(\"[^]\", n \setminus t, n \setminus treturn \{\n \mid tNOT\_SCHEME : new RegExp(merge(\"[^]\", n \setminus t, n \setminus treturn \{\n \mid tNOT\_SCHEME : new RegExp(merge(\"[^]\", n \setminus t, n \setminus treturn \{\n \mid tNOT\_SCHEME : new RegExp(merge(\"[^]\], n \setminus t, n \setminus treturn \{\n \mid tNOT\_SCHEME : new RegExp(merge(\"[^]\], n \setminus t, n \setminus treturn \{\n \mid tNOT\_SCHEME : new RegExp(merge(\"[^]\], n \setminus t, n \setminus treturn \{\n \mid tNOT\_SCHEME : new RegExp(merge(\"[^]\], n \setminus t, n \setminus treturn \{\n \mid tNOT\_SCHEME : new RegExp(merge(\"[^]\], n \setminus t, n
 ALPHA$$, DIGIT$$, \"[\\\\+\\\-\\\\.]\"), \"g\"),\n\t\NOT_USERINFO : new RegExp(merge(\"[^\\\\%\\\\:]\",
 UNRESERVED$$, SUB DELIMS$$), \"g\"),\n\t\NOT HOST : new RegExp(merge(\"[^\\\\%\\\\[]\\\\]\\\.]\",
 UNRESERVED$$, SUB_DELIMS$$), \"g\"',\n\t\tNOT_PATH: new RegExp(merge(\"[^\\\\%\\\\\\\\\\\\]"," all "."," a
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH_NOSCHEME : new
RegExp(merge(\"[^\\\\@]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_QUERY: new
RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\@\\\\\?]\", IPRIVATE$$),
\"g\"),\n\t\tNOT FRAGMENT: new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB DELIMS$$,
\"[\\\:\\\@\\\\/\\\?]\"),\"g\"),\n\t\tESCAPE: new RegExp(merge(\"[^]\", UNRESERVED$$, SUB_DELIMS$$),
\"g\"),\n\t\tUNRESERVED: new RegExp(UNRESERVED$$, \"g\"),\n\t\tOTHER_CHARS: new
RegExp(merge(\"[^\\\\]", UNRESERVED$$, RESERVED$$), \"g\"),\n\t\tPCT_ENCODED: new
RegExp(PCT_ENCODED$, \"g\"),\n\t\tIPV4ADDRESS: new RegExp(\"^\"+ IPV4ADDRESS$ +
\")$\"),\n\t\tIPV6ADDRESS: new RegExp(\"^\\\\[?(\" + IPV6ADDRESS$ + \")\" +
 subexp(subexp(\"\\\\%25\\\\\%(?!\" + HEXDIG$$ + \"{2})\") + \"(\" + ZONEID$ + \")\") + \"?\\\\]?$\") //RFC 6874,
 with relaxed parsing rules\n\t\;\n\nexport default buildExps(false);\n","'use strict';\n\n/** Highest positive signed
 32-bit float value *\nconst maxInt = 2147483647; // aka. 0x7FFFFFF or 2^31-1\n\n/** Bootstring parameters
 */\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst initialBias =
 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // \\x2D\\n\n/** Regular expressions *\nconst
 regexPunycode = /^xn--/;nconst regexNonASCII = /[^\0-\x7E]/; // non-ASCII chars\nconst regexSeparators = /[^\0-\x7E]//; // non-ASCII chars\nconst regexSeparators = /[^\0-\x7E]//; // non-ASCII chars\nconst regexSeparators = /[^\0-\x7E]//; // non
'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code
 point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts */\nconst baseMinusTMin = base -
 -----*\n\n/**\n * A generic error utility function.\n * @private\n * @param
 {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n
 */\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility
 function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The
 function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the
 callback function.\n *\nfunction map(array, fn) {\n\tconst result = \[];\n\tle length = array.length;\n\twhile (length--)
 {\ntering } = fn(array[length]); \nt}\ntreturn result; \ntering A simple `Array#map`-like wrapper to
```

work with domain name strings or email\n \* addresses.\n \* @private\n \* @param {String} domain The domain name or email address.\n \* @param {Function} callback The function that gets called for every\n \* character.\n \* @returns {Array} A new string of characters returned by the callback\n \* function.\n \*/\nfunction mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = ";\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything up to `@`)  $intact.\n\t\tesult = parts[0] + \ensuremath{\ '} \ensur$ #17.\n\tstring = string.replace(regexSeparators, "\x2E');\n\tconst labels = string.split('.');\n\tconst encoded = map(labels, fn).join('.');\n\treturn result + encoded;\n\n\n/\*\*\n \* Creates an array containing the numeric code points of each Unicode\n \* character in the string. While JavaScript uses UCS-2 internally,\n \* this function will convert a pair of surrogate halves (each of which\n \* UCS-2 exposes as separate characters) into a single code point,\n \* matching UTF-16.\n \* @see `punycode.ucs2.encode`\n \* @see <a href="mailto:</a>/mathiasbynens.be/notes/javascript-encoding>\n \* @memberOf punycode.ucs2\n \* @name decode\n \* @param {String} string The Unicode input string (UCS-2).\n \* @returns {Array} The new array of code points.\n \*/\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\const value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <=  $0xDBFF \&\& counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra =$ string.charCodeAt(counter++);\n\t\tif ((extra & 0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t\ else \\n\t\t\t\t/\ It's an unmatched surrogate; only append this code unit, in case the \n\t\t\t\t\t// next code unit is the high surrogate of a surrogate pair. $\n\t\t\$  else  ${\ntrue} {\ntrue} \$  Treates a string based on an array of numeric code points.\n \* @see `punycode.ucs2.decode`\n \* @memberOf punycode.ucs2\n \* @name encode\n \* @param {Array} codePoints The array of numeric code points.\n \* @returns {String} The new Unicode string (UCS-2).\n \*/\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/\*\*\n \* Converts a basic code point into a digit/integer.\n \* @see `digitToBasic()`\n \* @private\n \* @param {Number} codePoint The basic numeric code point value.\n \* @returns {Number} The numeric value of a basic code point (for use in\n \* representing integers) in the range '0' to 'base - 1', or 'base' if\n \* the code point does not represent a value.\n \*\nconst basicToDigit =  $function(codePoint) {\n tif (codePoint - 0x30 < 0x0A) {\n treturn codePoint - 0x16; \n t} \n tif (codePoint - 0x41 < 0x0A) {\n treturn codePoint - 0x16; \n treturn codePoint - 0x41 < 0x0A)} }$ 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint -0x61;\n\t}\n\treturn base;\n\;\n\n/\*\*\n \* Converts a digit/integer into a basic code point.\n \* @see `basicToDigit()`\n \* @private\n \* @param {Number} digit The numeric value of a basic code point.\n \* @returns {Number} The basic code point whose value (when used for\n \* representing integers) is 'digit', which needs to be in the range\n \* '0' to 'base - 1'. If 'flag' is non-zero, the uppercase form is\n \* used; else, the lowercase form is used. The behavior is undefined\n \* if `flag` is non-zero and `digit` has no uppercase form.\n \*/\nconst digitToBasic = function(digit, flag)  $\left(\frac{1}{0..25}\right)$  map to ASCII a..z or A..Z $\left(\frac{1}{26..35}\right)$  map to ASCII 0..9 $\left(\frac{1}{0..9}\right)$  map to ASCII 4.2 + 75 \* (digit < 26) - $((flag!=0) << 5); \n}; \n^**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n *$ https://tools.ietf.org/html/rfc3492#section-3.4\n \* @private\n \*\nconst adapt = function(delta, numPoints, firstTime)  $\{\n \le 0; \n \le 1; \n \ge 1; \n \le 1; \n \ge 1;$ numPoints);\n\tfor (/\* no initialization \*/; delta > baseMinusTMin \* tMax >> 1; k += base) {\n\t\tdelta = floor(delta / baseMinusTMin); $\n\t$ , $\n\t$ Punycode string of ASCII-only symbols to a string of Unicode\n \* symbols.\n \* @memberOf punycode\n \* @param {String} input The Punycode string of ASCII-only symbols.\n \* @returns {String} The resulting string of Unicode symbols.\n \*\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if there is none, then copy\n\t// the first basic code points to the output.\n\n\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0)  $>= 0x80) \{ \ln t \cdot \frac{\ln t}{\ln t} \cdot \frac{\ln t}{\ln t} \right) = 0x80) \{ \ln t \cdot \frac{\ln t}{\ln t} \cdot \frac{\ln t}{\ln t}$ 

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start just after the last delimiter if any basic code\n\t// points were copied; start at the beginning otherwise.\n\n\tfor
(let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) \{\n\ is the index of
the next character to be consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which gets
added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t//
value at the end to obtain 'delta'.\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k += base)
basicToDigit(input.charCodeAt(index++));\n\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w))
{\nt}(x) = x + t  (\n\t\t\t\text{terror}(\overflow');\n\t\t\t) \n\n\t\t\ti += digit * w;\n\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax :
1;\n\t\ i was supposed to wrap around from `out` to `0',\n\
incrementing `n` each time, so we'll fix that now:\n\t (floor(i / out) > maxInt - n)
{\n\cdot t/t \cdot error('overflow'); \n \cdot t/t } \n \cdot + = floor(i / out); \n \cdot t/t = out; \n \cdot i \cdot of the
output. \n\t\coutput. \n\t\c
string of Unicode symbols (e.g. a domain name label) to a\n * Punycode string of ASCII-only symbols.\n *
@memberOf punycode\n * @param {String} input The string of Unicode symbols.\n * @returns {String} The
resulting Punycode string of ASCII-only symbols.\n *\nconst encode = function(input) {\n\tconst output = [];\n\n\t/
Convert the input in UCS-2 to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\n\t// Cache the
length.\n\tlet inputLength = input.length;\n\n\tlet bias = length.\n\tlet inputLength = input.length;\n\n\tlet bias = length.\n\tlet inputLength = input.length;\n\n\tlet input.length = input.length;\n\n\tlet input.length = input.length;\n\n\tlet input.length = input.length;\n\n\tlet input.length = input.len
initialBias;\n\n\t// Handle the basic code points.\n\tfor (const currentValue of input) {\n\t\tif (currentValue < 0x80)
{\ntrover \{\ntrover N_t \ntrover N_t \ntro
handledCPCount = basicLength;\n\rt// `handledCPCount` is the number of code points that have been handled;\n\t//
`basicLength` is the number of basic code points.\n\n\t// Finish the basic string with a delimiter unless it's
empty.\n\tif (basicLength) {\n\t\output.push(delimiter);\n\t}\n\n\t// Main encoding loop:\n\twhile (handledCPCount
< inputLength) {\n\n\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t// larger
one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) \{\n\t\t(currentValue >= n && currentValue < m)
{\ntrue current Value; \ntrue \nr vertex} \ntrue current Value; \ntrue \nr vertex \nr 
> floor((maxInt - delta) / handledCPCountPlusOne)) \\ \ln t = (m - n) *
++ delta > maxInt) \{\n\t\t (current Value == n) \{\n\t (Represent delta as a
generalized variable-length integer.\h\t\t\t\tlet q = delta;\h\t\t\t\for (let k = base; /* no condition */; k += base)
{\nt}(x) = bias + tMax + tMa
t;\n\t\t\t\toutput.push(\n\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT,
0) \ln t t t t t = floor(qMinusT / floor(qMinu
handledCPCountPlusOne, handledCPCount == basicLength);httttdelta = basicLength
0; \ln t + \ln ded CP Count; \ln t \ln t + \det in t + t + n \ln ded CP Count; \ln t \ln t + t \ln t + t \ln t + n \ln t + 
Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded
parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n *
converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or
email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n
* string.\n *\nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn
regexPunycode.test(string)\n\t\t\t? decode(string.slice(4).toLowerCase())\n\t\t: string;\n\t});\n\f\*\n*\n**
Converts a Unicode string representing a domain name or an email address to\n * Punycode. Only the non-ASCII
parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n *
ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as a\n
```

```
* Unicode string \n * @returns {String} The Punycode representation of the given domain name or \n * email
address.\n *\nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn
-----*\n\n\n/** Define the public API *\nconst punycode = {\n\t/**\n\t * A string
representing the current Punycode.js version number.\n\t * @memberOf punycode\n\t * @type String\n\t
*/\n\t'version': '2.1.0',\n\t/**\n\t * An object of methods to convert from JavaScript's internal character\n\t *
representation (UCS-2) to Unicode code points, and back.\n\t * @see < https://mathiasbynens.be/notes/javascript-
encoding > \n\t * @memberOf punycode \n\t * @type Object \n\t * \n\t'ucs 2': {\n\t't'decode': ucs 2 decode, \n\t't'encode': ucs 2 decode, \n't \t'encode': ucs 2 decode, \n't \t'encode'
ucs2encode\n\t},\n\t'decode': decode,\n\t'encode': encode,\n\t'toASCII': toASCII,\n\t'toUnicode':
toUnicode\n};\n\nexport default punycode;\n","/**\n * URI.js\n *\n * @fileoverview An RFC 3986 compliant,
scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author <a
href=\"mailto:gary.court@gmail.com\">Gary Court</a>\n * @see http://github.com/garycourt/uri-js\n */\n\n/**\n *
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of source code must retain the above copyright notice, this list of\n *
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INCIDENTAL, SPECIAL, EXEMPLARY, OR\n * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR\n * SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON \n * ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING\n * NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF\n * ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * The views and conclusions contained in the software and
documentation are those of the\n * authors and should not be interpreted as representing official policies, either
expressed\n * or implied, of Gary Court.\n */\n\nimport URI PROTOCOL from \"./regexps-uri\";\nimport
IRI_PROTOCOL from \"./regexps-iri\";\nimport punycode from \"punycode\";\nimport { toUpperCase, typeOf,
assign } from \"./util\";\n\nexport interface URIComponents
{\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tf
ragment?:string;\n\treference?:string;\n\terror?:string;\n\\n\nexport interface URIOptions
{\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tini?:boolean;\n\tunicode
Support?:boolean;\n\tdomainHost?:boolean;\n\nexport interface URISchemeHandler<Components extends
URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends
URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents,
options:Options):Components;\n\tserialize(components:Components,
options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boole
an;\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO :
RegExp,\n\tNOT_HOST: RegExp,\n\tNOT_PATH: RegExp,\n\tNOT_PATH_NOSCHEME:
RegExp,\n\tNOT_QUERY: RegExp,\n\tNOT_FRAGMENT: RegExp,\n\tESCAPE: RegExp,\n\tUNRESERVED:
RegExp,\n\tOTHER_CHARS: RegExp,\n\tPCT_ENCODED: RegExp,\n\tIPV4ADDRESS:
RegExp,\n\tiPV6ADDRESS: RegE
\{ \}: \ln \ c = chr. charCodeAt(0); \ln \ c = chr. charCodeAt(0); \ln \ c = chr. charCodeAt(0); \ln \ c < 16) \}
e = \%0" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \%" + c.toString(16).toUpperCase();\n\telse if (c
< 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
128).toString(16).toUpperCase();\n\telse e = \"\%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"\%\" + (((c >> 12) | 224).toString(16).toUpperCase() + (((c >> 12) | 224).toString(16).toUpperCase() + (((c >> 12) | 224).toString(16).toUpperCase() + (((c >> 12) | 224).toStr
```

```
6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\n\treturn
e;\n\ n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i = 0;\n\tconst il =
 str.length; \n\t (i < il) {\n\t (const c = parseInt(str.substr(i + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2), 16); \n\t (c < 128) {\n\t (t + mwStr + 1, 2); \n\t (t + mwStr
else \ln t = str.substr(i, 6); \ln t t = 6; \ln t = 
 \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 4, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{pars
+= String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t\ else {\n\t\t\t\tnewStr} +=
 str.substr(i, 9); \n\t\t\} \n\t\t = 9; \n\t\t\} \n\t\t = str.substr(i, 3); \n\t\t\t += str.substr(i, 3); \n\t\t += str.subst
3;\n\t\t\n\n\treturn newStr;\n\n\nfunction normalizeComponentEncoding(components:URIComponents,
protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\const decStr =
pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t\\n\n\tif
 (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components.userinfo!==
 undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED,
 decodeUnreserved).replace(protocol.NOT USERINFO, pctEncChar).replace(protocol.PCT ENCODED,
toUpperCase);\n\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT ENCODED,
 decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme?
protocol.NOT_PATH: protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
 decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\n\treturn components;\n\;\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
 str.replace(\(^0*(.*)/, \"$1\") || \"0\";\n \\nfunction normalizeIPv4(host:string, protocol:URIRegExps):string
 {\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\t\n\tif (address)
 {\ntyre} {\ntyre} \ 
 normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];\n\tconst [, address, zone] = matches;\n\n\tif (address) {\n\t\tconst [last,
first] = address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first?
first.split(\":\").map(_stripLeadingZeros) : [];\n\t\tconst lastFields =
last.split(\":\").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
 protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address?7:
8;\n\t const last Fields Start = last Fields . length - field Count; \n\t\tconst fields = Array < string > (field Count); \n\n\t\tfor
 (let \ x = 0; \ x < fieldCount; ++x) \ \{\n\t\tfields[x] = firstFields[x] \ || \ lastFields[lastFieldsStart + x] \ || \ || \ || \ h\t\t\t\t\t
 (isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
 protocol);\n\t\t\n\n\t\const allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
{\langle h(t), t \rangle } (1, t) = {\langle h
 allZeroFields.sort((a, b) => b.length - a.length)[0];\n\n\t\tlet newHost:string;\n\t\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\t\const newFirst = fields.slice(0, longestZeroFields.index); \n\t\t\const newLast}
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\tnewHost = newFirst.join(\":\") + \"::\" +
```

```
zone; \ln t } \ln t \ zone; \ln t \ \ln t \ nost; \ln t \ nost; \ln t \ nost URI PARSE =
/^(?:([^\\/#]+):)?(?:\\\/((?:([^\\/#@]*)@)?(\\[[^\\/?#\]]+\\]|[^\\/#:]*)(?:\\:(\\d*))?))?([^#]*))?(?:#((?:
|\langle n\rangle\rangle/(1+|n\rangle\rangle/(1+|n\rangle).
undefined;\n\nexport function parse(uriString; string, options: URIOptions = { }):URIComponents {\n\tconst
components:URIComponents = { }:\n\tconst protocol = (options.iri !== false ? IRI PROTOCOL :
URI_PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" :
\"\"\ + \"\/\" + uriString;\n\n\tconst matches = uriString.match(URI PARSE);\n\n\tif (matches) {\n\t\tif
(NO\_MATCH\_IS\_UNDEFINED) \ \{\n\t\t\t/\store\ each\ component\n\t\t\t\tcomponents.scheme = \norm{1.5mm}
matches[1]; \n\t\t\components.userinfo = matches[3]; \n\t\t\components.host = matches[4]; \n\t\t\components.port =
parseInt(matches[5], 10);\n\t\tcomponents.path = matches[6] || \"\";\n\t\tcomponents.query =
matches[7];\n\t\t\components.fragment = matches[8];\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port))
{\ntrue { \ntrue FIX for improper RegExp matching\ntrue { \ntrue { \ntrue FIX for improper RegExp matching\ntrue { \ntrue { \ntrue
each component\n\t\t\components.scheme = matches[1] || undefined;\n\t\t\components.userinfo =
(uriString.indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\t\tcomponents.host = (uriString.indexOf(\"/\") !== -
1 ? matches[4] : undefined);\n\t\t\components.port = parseInt(matches[5], 10);\n\t\t\components.path = matches[6]
|| \"\";\n\t\t\components.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] :
undefined);\n\t\t\components.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\n\t\t\t//fix
port number\n\t(isNaN(components.port)) {\n\t(t\t)tcomponents.port =
(uriString.match(/\\/\/(?:.|\n)*\\:(?:\\/|\/*|\)/)? matches[4]: undefined); \\ \n\t\t\}\n\t\t\}\n\t\t\f\ (components.host)
{\ntering} {\ntering} IP hosts \ntering IP hos
protocol);\n\t\t}\n\n\t\t//determine reference type\n\t\tif (components.scheme === undefined &&
components.userinfo === undefined && components.host === undefined && components.port === undefined &&
!components.path && components.query === undefined) {\n\t\t\components.reference = \"same-document\";\n\t\t}
else if (components.scheme === undefined) {\n\t\t\components.reference = \"relative\";\n\t\t} else if
(components.fragment === undefined) {n/t/tcomponents.reference = \"absolute\";\n/t/t} else
{\n\t\t\components.reference = \"uri\";\n\t\t}\n\n\t\t//check for reference errors\n\t\tif (options.reference &&
options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\t\components.error =
handler\n\t\const schemeHandler = SCHEMES[(options.scheme || components.scheme ||
\"\").toLowerCase()];\n\n\t\t//check if scheme can't handle IRIs\n\t\tif (!options.unicodeSupport &&
(!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t//if host component is a domain name\n\t\t\tif
(components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t\t/\t/convert
Unicode IDN -> ASCII IDN\n\t\t\t\tttry {\n\t\t\tt\tcomponents.host =
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t\t\t
catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via
punycode: \ '' + e; \ h(t)(t)(t)/h(t)(t)/h(t)/convert \ IRI -> URI/h(t)/t_normalize Component Encoding (components, the first of the properties of the pro
URI_PROTOCOL);\n\t\t\ else \\n\t\t\r/normalize encoding\\n\t\t\_normalizeComponentEncoding(components,
protocol);\n\t\\n\n\t\/perform scheme specific parsing\n\t\tif (schemeHandler && schemeHandler.parse)
{\n\t\tschemeHandler.parse(components, options);\n\t\t}\n\t} else {\n\t\tcomponents.error = components.error ||
\"URI can not be parsed.\";\n\t\n\n\treturn components;\n\;\n\nfunction
_recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\tif
(components.userinfo !== undefined)
{\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t}\n\n\tif (components.host !==
undefined) {\n\t\t//normalize IP hosts, add brackets and escape zone separator for
IPv6\n\t\turiTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol),
protocol). replace (protocol. IPV6ADDRESS, (\_, \$1, \$2) => \"[" + \$1 + (\$2?"\%25" + \$2:"") + "]""); \nt] \ntif(") = \ntilde(") - \ntild
(typeof components.port === \"number\")
```

```
{\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length?
\label{eq:linear_constraint} $$ /^\(\cdot), (\cdot)/$/; \operatorname{RDS} = /^\(\cdot), (\cdot), (\cdot)/$/; \operatorname{RDS} = /^\(\cdot), (\cdot)/$/; (\cdot), (\cdot)/$/; (\cdot),
removeDotSegments(input:string):string { \n\tconst output:Array< string> = []; \n\twhile (input.length) { \n\twhile (input.length) } }
\"\");\n\t\toutput.pop();\n\t\t} else if (input === \".\\") n\cdot t \cdot t = -\".\ else n\cdot t \cdot t \in -\".\
input.slice(s.length);\n\t\t\toutput.push(s);\n\t\t\t} else {\n\t\t\t\throw new Error(\"Unexpected dot segment
condition''; \n\t\t\ \n\t\ \n\t\ \n\ 
serialize(components:URIComponents, options:URIOptions = { }):string {\n\tconst protocol = (options.iri?
schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\n\t//perform scheme
specific serialization\n\tif (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components,
options);\n\ntif (components.host) {\n\t\t//if host component is an IPv6 address\n\t\tif
(protocol.IPV6ADDRESS.test(components.host)) {\n\t\t/TODO: normalize IPv6 address as per RFC
5952\n\t\t}\n\n\t\t/if host component is a domain name\n\t\telse if (options.domainHost || (schemeHandler &&
schemeHandler.domainHost)) {n/t/t/convert IDN via punycode/n/t/ttry {n/t/t/tcomponents.host = (!options.iri
? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()):
punycode.toUnicode(components.host));\n\t\t\t\ catch (e) {\n\t\t\t\components.error = components.error || \"Host's
domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" +
e:\langle h/t/t \rangle /h/t \rangle /h/t/normalize encoding h/t_normalize Component Encoding (components, protocol); h/t/t
(options.reference !== \"suffix\" && components.scheme)
_recomposeAuthority(components, options);\n\tif (authority !== undefined) {\n\t\tif (options.reference !==
\"suffix\") {\n\t\turiTokens.push(\"/\");\n\t\t\lariTokens.push(authority);\n\n\t\tif (components.path &&
undefined) \{\nt \le components.path;\n\nt (!options.absolutePath && (!schemeHandler || )
!schemeHandler.absolutePath)) {\n\t\ts = removeDotSegments(s);\n\t\t}\n\n\t\tif (authority === undefined)
\"\n\t\turiTokens.push(s);\n\t\\n\n\tif (components.query !== undefined)
{\n\t\turiTokens.push(\"?\");\n\t\turiTokens.push(components.query);\n\t}\n\n\tif (components.fragment !==
undefined) {\n\t\turiTokens.push(\"#\");\n\t\turiTokens.push(components.fragment);\n\t}\n\n\treturn
uriTokens.join(\"\"); //merge tokens into a string\n\;\n\nexport function resolveComponents(base:URIComponents,
relative:URIComponents, options:URIOptions = { }, skipNormalization?:boolean):URIComponents {\n\tconst
//normalize base components\n\t\trelative = parse(serialize(relative, options), options); //normalize relative
relative.host;\n\t\ttarget.port = relative.port;\n\t\ttarget.path = removeDotSegments(relative.path ||
\"\");\n\t\ttarget.query = relative.query;\n\t\ else {\n\t\tif (relative.userinfo !== undefined || relative.host !==
undefined || relative.port !== undefined) {\n\t\t\//target.authority = relative.authority;\n\t\ttarget.userinfo =
relative.userinfo;\n\t\t\ttarget.host = relative.host;\n\t\t\ttarget.port = relative.port;\n\t\t\ttarget.path =
removeDotSegments(relative.path || \""); \\| \ttarget.query = relative.query; \\| \ttarget.query = relative.query = relative.query; \\| \ttarget.query = relative.query = relative.query
{\ntrover 1.} \ {\n\t\t\t\target.path = base.path;\n\t\t\t\tif (relative.query !== undefined) {\n\t\t\t\t\target.query =
relative.query; \\ | h(t/t/t) | else { h(t/t/t) | else } \\ | h(t/t/t) | else { h(t/t/t) | else } \\ | h(t/t/t) | else { h(t/t/t) | else } \\ | h(t/t/t) | else { h(t/t/t) | else } \\ | h(t/t/t) | else | h(t/t) | else | h(t/t/t) | else | h(t/t/t) | else | h(t/t/t) | else | h(t/t/t) | else | h(t/t) | els
(relative.path.charAt(0) === \''/") \{ \n\t/t/t\target.path = removeDotSegments(relative.path); \n\t/t/t\} else
{\n\t\t\t\t\t\tif ((base.userinfo !== undefined || base.host !== undefined || base.port !== undefined) && !base.path)
```

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{\https: } {\https: 
relative.fragment;\n\n\treturn target;\n};\n\nexport function resolve(baseURI:string, relativeURI:string,
options?:URIOptions):string {\n\tconst schemelessOptions = assign({ scheme : 'null' }, options);\n\treturn
serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions),
schemelessOptions, true), schemelessOptions);\n\;\n\nexport function normalize(uri:string,
options?:URIOptions):string;\nexport function normalize(uri:URIComponents,
options?:URIOptions):URIComponents;\nexport function normalize(uri:any, options?:URIOptions):any {\n\tif
(typeof uri === \"string\") {\n\t\uri = serialize(parse(uri, options), options);\n\t} else if (typeOf(uri) === \"object\")
{\n\t\turi = parse(serialize(<URIComponents>uri, options), options);\n\t}\n\n\treturn uri;\n};\n\export function
equal(uriA:string, uriB:string, options?: URIOptions):boolean;\nexport function equal(uriA:URIComponents,
uriB:URIComponents, options?:URIOptions):boolean;\nexport function equal(uriA:any, uriB:any,
options?:URIOptions):boolean {\n\tif (typeof uriA === \"string\") {\n\t\uriA = serialize(parse(uriA, options),
options);\n\t} else if (typeOf(uriA) === \"object\") {\n\t\turiA = serialize(<URIComponents>uriA,
(typeOf(uriB) === \"object\") {\n\t\turiB = serialize(<URIComponents>uriB, options);\n\t}\n\n\treturn uriA ===
uriB;\n};\n\nexport function escapeComponent(str:string, options?:URIOptions):string {\n\treturn str &&
str.toString().replace((!options || !options.iri ? URI PROTOCOL.ESCAPE : IRI PROTOCOL.ESCAPE),
pctEncChar);\n};\n\nexport function unescapeComponent(str:string, options?:URIOptions):string {\n\treturn str &&
str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED :
IRI PROTOCOL.PCT ENCODED), pctDecChars);\n\;\n","import { URISchemeHandler, URIComponents,
URIOptions } from \"../uri\";\nimport { pctEncChar, pctDecChars, unescapeComponent } from \"../uri\";\nimport
punycode from \"punycode\";\nimport { merge, subexp, toUpperCase, toArray } from \"../util\";\n\nexport interface
MailtoHeaders {\n\t[hfname:string]:string\n\nexport interface MailtoComponents extends URIComponents
{\n\cdot}\, \n\to:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\thody?:string\n}\n\nconst O:MailtoHeaders
\"\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDF\-\\\\uFFF\": \"\") +
\"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\"; //case-insensitive\nconst PCT_ENCODED$ =
subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ 
HEXDIG$$) + \"\\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"\\" +
subexp(\"\" + HEXDIG$$ + HEXDIG$$)); //expanded\n\n/RFC 5322, except these symbols as per RFC 6068: @
\label{eq:constWSP} $$= \left(\frac{2}{\|\cdot\|^{\|\cdot\|}}\right)^{\|\cdot\|} \ OBS_QTEXT$$ = \left(\frac{2}{\|\cdot\|^{2}}\right)^{\|\cdot\|} \ OBS_QTEXT$$
\"[\\\x08\\\\x0B\\\\x0B\\\\x0E\\\\x1F\\\x1F\\\x7F]\\"; //(%d1-8 / %d11-12 / %d14-31 / %d127)\n//const QTEXT$$
= merge(\"[\]\] \times 21\[\] \times 23\[\] \times 5B\[\] \times 5D\[\] \times 5
subexp(\"\\\\\" + merge(\"[\\\x00\\\x0D\\\x0A]\", OBS_QTEXT$$)); //%d0 / CR / LF / obs-qtext\n//const
FWS\$ = subexp(subexp(WSP\$\$ + \"*\" + \"\\\x0D\\\\x0A\") + \"?\" + WSP\$\$ + \"+\"); \n//const QUOTED_PAIR\$
= subexp(subexp(\"\\\\\\" + subexp(VCHAR$$ + \"\\" + WSP$$)) + \"\\" + OBS_QP$);\n/\const
QUOTED_STRING$ = subexp(\\\\\" + subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" +
merge(QTEXT$$, \"[\\\\\");\nconst DOT_ATOM_TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\.\" +
subexp(QTEXT$$ + \"\\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp(\\\\\"' + QCONTENT$ +
```

```
\"*\" + \\\\\");\n\n/\RFC 6068\nconst DTEXT_NO_OBS$$ = \"[\\\\x5A\\\\x5E-\\\\x7E]\"; //%d33-90 /
 subexp(UNRESERVED$$ + \"\" + PCT_ENCODED$ + \"\" + SOME_DELIMS$$);\nconst_DOMAIN$ =
subexp(DOT_ATOM_TEXT$ + \"\\" + \"\\\[\" + DTEXT_NO_OBS$$ + \"*\" + \"\\\\]\");\nconst LOCAL_PART$ =
subexp(DOT_ATOM_TEXT$ + \"\" + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ +
\"\\\\@\" + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\"\\\\,\" + ADDR_SPEC$) + \"*\");\nconst
HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ =
subexp(HFNAME$ + \"\\\\=\" + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp(\"\\\&\" +
HFIELD$\) + \"\"\);\nconst HFIELD$\$ = subexp(\"\\\\?\" + HFIELD$2\$);\nconst MAILTO_URI = new
RegExp(\''\mailto\'\\:'\' + TO$ + \"?\" + HFIELDS$ + \"?$\"); \n\nconst UNRESERVED = new
RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new RegExp(PCT_ENCODED$, \"g\");\nconst
NOT_LOCAL_PART = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\]\", '[\\\\"]', VCHAR$$), \"g\");\nconst
NOT_DOMAIN = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\]\", \"[\\\\[]\", DTEXT_NO_OBS$$, \"[\\\\]]\"),
\"g\");\nconst NOT_HFNAME = new RegExp(merge(\"[^]\", UNRESERVED$$, SOME_DELIMS$$),
\"g\");\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\"^\" + TO$ + \"$\");\nconst
decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED) ? str : decStr);\n\n\nconst
handler:URISchemeHandler<MailtoComponents> = {\n\tscheme : \"mailto\",\n\n\tparse : function
 (components: URIComponents, options: URIOptions): MailtoComponents {\n\t\tconst mailtoComponents =
components as MailtoComponents;\n\t\tconst to = mailtoComponents.to = (mailtoComponents.path?
 mailtoComponents.path.split(\",\"): []);\n\t\tmailtoComponents.path = undefined;\n\n\t\tif
 (mailtoComponents.query) {n/t/t| unknownHeaders = false/n/t/t| theaders:MailtoHeaders = { }; /n/t/t| theaders = { }; /n/t| theaders 
hfields = mailtoComponents.query.split(\"&\"); \n\n\t\thfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t}const
hfield[1].split(\",\");\n\t\t\t\tfor (let x = 0, xl = toAddrs.length; <math>x < xl; ++x)
 \"subject\":\n\t\t\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1],
true;\n\t\t\t\t\t\t\theaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1],
headers; \langle n/t/t \rangle / n/n/t than ito Components. query = undefined; \langle n/n/t \rangle / n/n / t (let x = 0, xl = to.length; x < xl; ++x)
 {\ntrover addr = to[x].split(\@'");\nn\t}\taddr[0] = unescapeComponent(addr[0]);\nn\t}\tition{The content of the content of 
 punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\n\t\t\t\t\t\t\cappact{} catch (e)
 to ASCII via punycode: \" + e;\n\t\t\t}\n\t\t\t} else {\n\t\t\t\taddr[1] = unescapeComponent(addr[1],
options).toLowerCase();\n\t\t\\n\n\t\ttto[x] = addr.join(\"@\");\n\t\\n\
 mailtoComponents;\n\t},\n\n\tserialize: function (mailtoComponents:MailtoComponents,
 options:URIOptions):URIComponents {\n\t\tconst components = mailtoComponents as URIComponents;\n\t\tconst
to = toArray(mailtoComponents.to);\n\t\tif (to) \{\nt x = 0, xl = to.length; x < xl; ++x\} \{\nt t t < xl; ++x\}
to Addr = String(to[x]); \\ | to Addr. lastIndexOf(\\ "@"); \\ | to Addr. lastIndexOf(\\ ""); \\ | to Add
 atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\t\t\t\tlet domain = toAddr.slice(atIdx +
 1); \ln \frac{t}{t} = 1; \ln \frac{t}{t} \le \ln \frac{t}{t} (!options.iri ?
punycode.toASCII(unescapeComponent(domain, options).toLowerCase()): punycode.toUnicode(domain));\n\t\t\t\t\t\t\t}
catch (e) {\n\t\t\t\components.error = components.error || \"Email address's domain name can not be converted to
```

```
mailtoComponents.headers || { };\n\n\t\tif (mailtoComponents.subject) headers[\"subject\"] =
 mailtoComponents.subject;\n\t\tif (mailtoComponents.body) headers[\"body\"] =
 mailtoComponents.body;\n\n\t\tconst fields = [];\n\t\for (const name in headers) {\n\t\t\tif (headers[name] !==
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t\t\t\t\t\t\"=\"
 +\n\t\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
 toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t\t\t);\n\t\t}\n\t\t}\n\t\tif (fields.length)
 handler;","import { URIRegExps } from \"./uri\";\nimport { buildExps } from \"./regexps-uri\";\n\nexport default
buildExps(true);\n","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\n\nconst
handler: URIS cheme + In the continuous of the
 (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif
host.\";\n\t\treturn components;\n\t\,\n\n\tserialize : function (components:URIComponents,
 options:URIOptions):URIComponents {\n\t\t//normalize the default port\n\t\tif (components.port ===
 (String(components.scheme).toLowerCase() !== \"https\"? 80:443) || components.port === \"\")
 {\n\t}/n\
 Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not the HTTP spec.\n\n\t\treturn
components;\n\t\n\;\n\nexport default handler;", "import { URISchemeHandler, URIComponents, URIOptions }
from \"../uri\";\nimport http from \"./http\";\n\nconst handler:URISchemeHandler = {\n\tscheme :
\"https\",\n\tdomainHost: http.domainHost,\n\tparse: http.parse,\n\tserialize: http.serialize\n}\n\nexport default
handler; ","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar,
SCHEMES } from \"../uri\";\n\nexport interface URNComponents extends URIComponents
 {\n\tnid?:string;\n\tnss?:string;\n}\n\export interface URNOptions extends URIOptions
 {\pi:string:\n} = "(?:[0-9A-Za-z][0-9A-Za-z])":\nconst PCT ENCODED = "(?:[0-9A-Za-z][0-9A-Za-z]] = "(?:[0-9A-Za-z][0-9A-Za-z]] = "(?:[0-9A-Za-z][0-9A-Za-z
TRANS\$\$ + "")+)""; |nconst URN_SCHEME = new RegExp(""urn\\\":(" + NID\$ + \")\$"); |nconst URN_PATH = "".") |nconst URN_PATH = ""."] |nconst URN_P
new RegExp(\"^(\" + NID$ + \")\\\:(\" + NS$ + \")$\");\nconst URN_PARSE = \(^([^\:]+)\\:(.*)/;\nconst
(components:URIComponents, options:URNOptions):URNComponents {\n\t\tconst matches = components.path
 && components.path.match(URN_PARSE); \n\ tlet urnComponents = components as URNComponents; \n\ tlf
 (matches) {\n\t\tconst scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\tconst nid =
 matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme = `${scheme}:${options.nid ||
 nid}`;\n\t\t\const schemeHandler = SCHEMES[urnScheme];\n\n\t\t\turnComponents.nid =
 nid;\n\t\t\trnComponents.nss = nss;\n\t\t\trnComponents.path = undefined;\n\n\t\t\tif (schemeHandler)
 {\ntrue \{ \ntrue \} } AntitytyturnComponents = schemeHandler.parse(urnComponents, options) as URNComponents;\ntrue \ntrue \nt
 {\ntrover | \ntrover | \ntrover
 urnComponents;\n\t},\n\n\tserialize: function (urnComponents:URNComponents,
 options:URNOptions):URIComponents {\n\t\tconst scheme = options.scheme || urnComponents.scheme ||
\"urn\";\n\t\tconst nid = urnComponents.nid;\n\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\tconst
 schemeHandler = SCHEMES[urnScheme];\n\n\t\tif (schemeHandler) {\n\t\turnComponents =
 schemeHandler.serialize(urnComponents, options) as URNComponents; \n\t\t\
 urnComponents as URIComponents;\n\t\tconst nss = urnComponents.nss;\n\t\turiComponents.path = `${nid ||
options.nid}:${nss}`;\n\n\t\treturn uriComponents;\n\t},\n};\n\nexport default handler;","import {
```

```
URISchemeHandler, URIComponents, URIOptions \ from \"../uri\";\nimport \ URNComponents \ from
\"./urn\";\nimport { SCHEMES } from \"../uri\";\n\nexport interface UUIDComponents extends URNComponents
{\n\} = /^{0-9A-Fa-f}_{8}(?:\-[0-9A-Fa-f]_{4})_{3}\-[0-9A-Fa-f]_{12}_{,\n\} = /^{0-9A-Fa-f}_{12}_{12}_{,\n\}
UUID\_PARSE = /^{[0-9A-Fa-f]} \frac{36}{;} n\n/RFC 4122 nconst handler: URIScheme Handler < UUID Components,
(urnComponents:URNComponents, options:URIOptions):UUIDComponents {\n\t\tconst uuidComponents =
urnComponents as UUIDComponents;\n\t\tuuidComponents.uuid = uuidComponents.nss;\n\t\tuuidComponents.nss
= undefined;\n\n\t\tif (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID)))
{\n\t\tuuidComponents.error = uuidComponents.error || \"UUID is not valid.\";\n\t\treturn
uuidComponents;\n\t},\n\n\tserialize: function (uuidComponents:UUIDComponents,
options:URIOptions):URNComponents {\n\t\tconst urnComponents = uuidComponents as
URNComponents;\n\t\t//normalize UUID\n\t\turnComponents.nss = (uuidComponents.uuid ||
\"\").toLowerCase();\n\t\treturn urnComponents;\n\t\,\n\;\n\nexport default handler;","import { SCHEMES } from
\"./uri\";\n\nimport http from \"./schemes/http\";\nSCHEMES[http.scheme] = http;\n\nimport https from
\"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport mailto from
\"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from
\"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urn-
uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n"]}
```

## Found in path(s):

 $*/opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.min.js.map$ 

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

```
{"version":3,"file":"uri.all.js","sources":["../../src/index.ts","../../src/schemes/urn-
uuid.ts","../../src/schemes/urn.ts","../../src/schemes/mailto.ts","../../src/schemes/https.ts",".../src/schemes/https.
/src/uri.ts","../../node modules/punycode/punycode.es6.js","../../src/regexps-iri.ts","../../src/regexps-
uri.ts","../../src/util.ts"],"sourcesContent":["import { SCHEMES } from \"./uri\";\n\nimport http from
\"./schemes/http\";\nSCHEMES[http.scheme] = http;\n\nimport https from
\"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport mailto from
\"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from
\"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urn-
uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n","import { URISchemeHandler,
URIComponents, URIOptions } from \"../uri\";\nimport { URNComponents } from \"./urn\";\nimport { SCHEMES
} from \"../uri\":\n\nexport interface UUIDComponents extends URNComponents {\n\tuuid?: string;\n}\n\nconst
UUID = /^{[0-9A-Fa-f]}{8}(?:\|-[0-9A-Fa-f]}{4}){3}\|-[0-9A-Fa-f]}{12}$/;\|-[0-9A-Fa-f]$/-[0-9A-Fa-
[36]/:\n\n//RFC 4122\nconst handler:URISchemeHandler<UUIDComponents, URIOptions, URNComponents> =
{\n\tscheme : \"urn:uuid\",\n\n\tparse : function (urnComponents:URNComponents,
options:URIOptions):UUIDComponents {\n\t\tconst uuidComponents = urnComponents as
UUIDComponents;\n\t\tuuidComponents.uuid = uuidComponents.nss;\n\t\tuuidComponents.nss =
undefined;\n\n\t\tif (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID)))
{\n\t\t} is not valid.\";\n\t\treturn = uuidComponents.error || \"UUID is not valid.\";\n\t\treturn
uuidComponents;\n\t},\n\n\tserialize : function (uuidComponents:UUIDComponents,
options:URIOptions):URNComponents {\n\t\tconst urnComponents = uuidComponents as
URNComponents;\n\t\t//normalize UUID\n\t\turnComponents.nss = (uuidComponents.uuid ||
\"\").toLowerCase();\n\t\treturn urnComponents;\n\t\,\n\;\n\nexport default handler;","import { URISchemeHandler,
URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, SCHEMES } from \"../uri\";\n\nexport
interface URNComponents extends URIComponents {\n\tnid?:string;\n\tns?:string;\n}\n\nexport interface
```

```
URNOptions extends URIOptions {\n\tnid?:string;\n}\n\const NID$ = \"(?:[0-9A-Za-z][0-9A-Za-z\\\-
[1,31]\";\nconst PCT_ENCODED$ = \"(?:\\\%[0-9A-Fa-f]{2}\\";\nconst TRANS$$ = \"[0-9A-Za-f]^{2}\\";\nconst TRANS$$
PCT\_ENCODED\$ + \\ "| + TRANS\$\$ + \\ ") + \\ "; \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\_SCHEME = new RegExp(\\ "^urn\\ | + NID\$ + \\ ", \\ nconst URN\\ | + NID\$ + \\ ", \\ nconst URN\\ | + NID\$ + \\ ", \\ nconst URN\\ | + NI
\")\n\nconst URN_PATH = new RegExp(\"^(\" + NID$ + \")\\\:(\" + NSS$ + \")$\");\nconst URN_PARSE =
\\xFF\/g;\n\n/\RFC 2141\nconst handler:URISchemeHandler<URNComponents,URNOptions> = \\n\tscheme :
\"urn\",\n\n\tparse: function (components:URIComponents, options:URNOptions):URNComponents {\n\t\tconst
matches = components.path && components.path.match(URN_PARSE);\n\t\tlet urnComponents = components as
URNComponents;\n\n\t\tif (matches) {\n\t\tconst scheme = options.scheme || urnComponents.scheme ||
\"urn\";\n\t\t\tconst nid = matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme =
`${scheme}:${options.nid || nid}`;\n\t\tconst schemeHandler =
SCHEMES[urnScheme];\n\n\t\t\urnComponents.nid = nid;\n\t\t\urnComponents.nss =
scheme Handler.parse (urn Components, options) \ as \ URN Components; \\ |n/t/t| | n/t/t| \ else \ |n/t/t| urn Components.error
= urnComponents.error || \"URN can not be parsed.\";\n\t\treturn urnComponents;\n\t\,\n\n\tserialize:
function (urnComponents:URNComponents, options:URNOptions):URIComponents {\n\t\tconst scheme =
options.scheme || urnComponents.scheme || \"urn\";\n\t\tconst nid = urnComponents.nid;\n\t\tconst urnScheme =
`${scheme}:${options.nid || nid}`:\n\t\tconst schemeHandler = SCHEMES[urnScheme]:\n\n\t\tif (schemeHandler)
{\ntrue \{ \ntrue \ntr
uriComponents = urnComponents as URIComponents;\n\t\tconst nss =
urnComponents.nss;\n\t\turiComponents.path = `${nid || options.nid}:${nss}`:\n\n\t\treturn
uriComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions
} from \"../uri\":\nimport { pctEncChar, pctDecChars, unescapeComponent } from \"../uri\":\nimport punycode from
\"punycode\";\nimport { merge, subexp, toUpperCase, toArray } from \"../util\";\n\nexport interface MailtoHeaders
{\n\t[hfname:string]:string\n}\n\nexport interface MailtoComponents extends URIComponents
{\n\tto:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\thody?:string\n}\n\nconst O:MailtoHeaders
\"\\\xA0-\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDF\\\\\uFFF\\": \\"\") +
\"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\"; \(//case-insensitive\nconst PCT_ENCODED$ =
HEXDIG$$) + \"\\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"\\" +
subexp(\"\%\" + HEXDIG\$\$ + HEXDIG\$\$)); //expanded\n\n/RFC 5322, except these symbols as per RFC 6068: @
\label{eq:constwsps} $$ = '[(\x20)(\x09)']'; \n//const OBS_QTEXT$$ = '[(\x20)(\x09)']'; \n//const OBS_QTEXT$$
\"[\\\x01-\\\x08\\\\x0B\\\\x0C\\\\x0E-\\\x1F\\\x7F]\\"; //(%d1-8 / %d11-12 / %d14-31 / %d127)\n/const QTEXT$$
= merge(\"[\]\] \times 21\[\] \times 23\[\] \times 5B\[\] \times 5D\[\] \times 5
qtext\n//const\ VCHAR$ = \"[\\\\x21-\\\\x7E]\";\n//const\ WSP$$ = \"[\\\\x20\\\\x09]\";\n//const\ OBS_QP$ =
FWS\$ = subexp(subexp(WSP\$\$ + \"*\" + \"\\\x0D\\\\x0A\") + \"?\" + WSP\$\$ + \"+\"); \n//const QUOTED_PAIR\$
= subexp(subexp(\'\\\\\\\ + subexp(VCHAR$$ + \'\\\" + WSP$$)) + \'\\\" + OBS_QP$);\n/const
QUOTED_STRING$ = subexp(\\\\\" + subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" +
merge(QTEXT$$, \"[\\\\\"\\\\\]\");\nconst DOT_ATOM_TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\\\" +
ATEXT\$\$ + "+"" + ""*"); nconst QUOTED_PAIR\$ = subexp(""\\\\\" + VCHAR\$\); nconst QCONTENT\$ =
subexp(QTEXT$$ + \"\\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp(\\\\\" + QCONTENT$ +
\"*\" + \\\\\");\n\n/\RFC 6068\nconst DTEXT_NO_OBS$$ = \"[\\\\x5A\\\\x5E-\\\\x7E]\"; //%d33-90 /
```

```
%d94-126\nconst SOME_DELIMS$$ = \"[\\\\!\\\\$\\\\'\\\\\\\\\\\\\\\\\\\\\@]\";\nconst QCHAR$ =
subexp(UNRESERVED$$ + \"\" + PCT_ENCODED$ + \"\" + SOME_DELIMS$$);\nconst DOMAIN$ =
subexp(DOT_ATOM_TEXT$ + \"\\" + \"\\\[\" + DTEXT_NO_OBS$$ + \"*\" + \"\\\\]\");\nconst LOCAL_PART$ =
subexp(DOT_ATOM_TEXT$ + \"\" + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ +
\''' + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\''\\\,\" + ADDR_SPEC$) + \"*\");\nconst
HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ =
subexp(HFNAME$ + \"\\\\=\" + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp(\"\\\&\" +
HFIELD$\) + \"\"\);\nconst HFIELD$\$ = subexp(\"\\\\?\" + HFIELD$2\$);\nconst MAILTO_URI = new
RegExp(\''\mailto\'\\:'' + TO$ + \''?\'' + HFIELDS$ + \''?$\''); \n\nconst UNRESERVED = new
RegExp(UNRESERVED$$, \"g\");\nconst PCT ENCODED = new RegExp(PCT ENCODED$, \"g\");\nconst
NOT_LOCAL_PART = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\]\", '[\\\\"]', VCHAR$$), \"g\");\nconst
NOT_DOMAIN = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\]\", \"[\\\\[]\", DTEXT_NO_OBS$$, \"[\\\\]]\"),
\"g\");\nconst NOT HFNAME = new RegExp(merge(\"[^]\", UNRESERVED$$, SOME DELIMS$$),
\"g\");\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\"^\" + TO$ + \"$\");\nconst
decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED) ? str : decStr);\n\n\nconst
handler:URISchemeHandler<MailtoComponents> = {\n\tscheme : \"mailto\",\n\n\tparse : function
(components:URIComponents, options:URIOptions):MailtoComponents {\n\t\const mailtoComponents =
components as MailtoComponents;\n\t\tconst to = mailtoComponents.to = (mailtoComponents.path?
mailtoComponents.path.split(\",\"): []); \n\t\tmailtoComponents.path = undefined; \n\t\tif
(mailtoComponents.query) {n/t/t| unknownHeaders = false/n/t/t| theaders:MailtoHeaders = { };/n/t/t| theaders = { };/n/t| theaders = { };/n
hfields = mailtoComponents.query.split(\"\&\"); \n\n\t\thfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t}const
hfield[1].split(\'',\'');\n\t\t\t\t\tfor (let x = 0, xl = toAddrs.length; x < xl; ++x)
\"subject\":\n\t\t\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1],
options);\n\t\t\t\t\t\threak;\n\t\t\t\t\tcase \"body\":\n\t\t\t\t\tmailtoComponents.body =
headers; \ln t \le n \cdot \ln t \le
punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\n\t\t\t\t} catch (e)
to ASCII via punycode: \ '' + e; \ h\ t\ h\ l\ e {\n\t\t\t\addr[1] = unescapeComponent(addr[1],
options).toLowerCase();\langle n/t/t \rangle = addr.join(\langle @/"); \langle n/t/t \rangle /n/t/treturn
mailtoComponents;\n\t\,\n\n\tserialize: function (mailtoComponents:MailtoComponents,
options:URIOptions):URIComponents {\n\t\const components = mailtoComponents as URIComponents;\n\t\const
to = toArray(mailtoComponents.to); h(t) (to) h(t) (let t = 0, t = t). Length; t < t; t < t) t < t.
to Addr = String(to[x]); \\ | to Addr. lastIndexOf(|"@\"); \\ | to Addr. lastIndexOf(|"@\"); \\ | to Addr. slice(0, and the context of the con
atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\t\t\t\tlet domain = toAddr.slice(atIdx +
punycode.toASCII(unescapeComponent(domain, options).toLowerCase()): punycode.toUnicode(domain));\n\t\t\t\t\t\t}
catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to
```

```
mailtoComponents.headers || { };\n\n\t\tif (mailtoComponents.subject) headers [\"subject\"] =
mailtoComponents.subject;\n\t\tif (mailtoComponents.body) headers[\"body\"] =
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t\t\t\t\t\t\"=\"
+\n\t\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT HFVALUE, pctEncChar)\n\t\t\t)\n\t\t\t\\n\t\t\t\n\t\tif\(fields.length)
{\nt}\nt\ emponents.query = fields.join(\"&\");\n\t\treturn components;\n\t\n\n\treturn components;\n\t\n\n\treturn default
handler; ", "import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport http from
\"./http\";\n\const handler:URISchemeHandler = {\n\tscheme : \"https\",\n\tdomainHost : http.domainHost,\n\tparse
: http.parse,\n\tserialize : http.serialize\n}\n\nexport default handler;","import { URISchemeHandler,
URIComponents, URIOptions } from \"../uri\";\n\nconst handler:URISchemeHandler = {\n\tscheme :
\"http\",\n\n\tdomainHost: true,\n\n\tparse: function (components:URIComponents,
options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host)
components;\n\t\,\n\n\tserialize: function (components:URIComponents, options:URIOptions):URIComponents
\\\t\t//normalize the default port\n\t\tif (components.port === (String(components.scheme).toLowerCase() !==
empty path\ntti (!components.path) {\ntttcomponents.path = \"\";\n\t\t/NOTE: We do not parse query
strings for HTTP URIs\n\t\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not
the HTTP spec.\n\n\t\treturn components;\n\t\n\;\n\nexport default handler;","/**\n * URI.js\n *\n * @fileoverview
An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author
<a href=\"mailto:gary.court@gmail.com\">Gary Court</a>\n * @see http://github.com/garycourt/uri-js\n
*/\n\n/**\n * Copyright 2011 Gary Court. All rights reserved.\n *\n * Redistribution and use in source and binary
forms, with or without modification, are\n * permitted provided that the following conditions are met:\n *\n * 1.
Redistributions of source code must retain the above copyright notice, this list of\n *
   conditions and the
following disclaimer.\n *\n * 2. Redistributions in binary form must reproduce the above copyright notice, this
list\n *
         of conditions and the following disclaimer in the documentation and/or other materials\n *
   provided
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* NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
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the software and documentation are those of the\n * authors and should not be interpreted as representing official
policies, either expressed\n * or implied, of Gary Court.\n */\n\nimport URI_PROTOCOL from \"./regexps-
uri\";\nimport IRI_PROTOCOL from \"./regexps-iri\";\nimport punycode from \"punycode\";\nimport {
toUpperCase, typeOf, assign } from \"./util\";\n\nexport interface URIComponents
{\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tf
ragment?:string;\n\treference?:string;\n\terror?:string;\n\\n\nexport interface URIOptions
{\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tri?:boolean;\n\tunicode
Support?:boolean;\n\tdomainHost?:boolean;\n\nexport interface URISchemeHandler<Components extends
URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends
URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents,
```

```
options:Options):Components;\n\tserialize(components:Components,
  options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boole
  an;\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO :
 RegExp, \n\t NOT\_PATH : RegExp, \n\t NOT\_PATH = RegE
RegExp,\\ lntNOT\_QUERY: RegExp,\\ lntNOT\_FRAGMENT: RegExp,\\ lntESCAPE: RegExp,\\ lntUNRESERVED: lntNOT\_FRAGMENT: RegExp,\\ l
 RegExp,\n\tOTHER\_CHARS: RegExp,\n\tPCT\_ENCODED: RegExp,\n\tIPV4ADDRESS:
 RegExp,\n\tiPV6ADDRESS : RegExp,\n\tiPV6ADDR
  \{ \}; \n\ensuremath{\mbox{\mbox{$N$}}}\cline{\mbox{\mbox{\mbox{$N$}}}} \cline{\mbox{\mbox{$N$}}}\cline{\mbox{\mbox{$N$}}} \cline{\mbox{\mbox{$N$}}} \cline{\mbox{\mbox{$N$}}}\cline{\mbox{\mbox{$N$}}} \cline{\mbox{\mbox{$N$}}}\cline{\mbox{\mbox{$N$}}} \cline{\mbox{\mbox{$N$}}}\cline{\mbox{\mbox{$N$}}}\cline{\mbox{\mbox{$N$}}} \cline{\mbox{\mbox{$N$}}}\cline{\mbox{\mbox{
 e = \%0\" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \%\" + c.toString(16).toUpperCase();\n\telse if (c
  < 2048) e = \"\%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"\%\" + ((c & 63) |
  128).toString(16).toUpperCase();\n\telse e = \"\%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"\%\" + (((c >> 12) | 224).toString(16).toUpperCase() + (((c <> 12) | 224).toString(16).toUpperCase() + (((c <> 12) | 224).toString(16).toUpperCase() + (((c <> 12) | 224).toStr
  6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\rteturn
e;\n\\nexport function pctDecChars(str:string):string \{\n\text{tlet newStr} = \"'\";\n\text{tlet } i = 0;\n\text{tconst } il = 0;\n\text{tco
 str.length; \ln t (i < il) {\ln t (str.substr(i + 1, 2), 16); \ln t (c < 128) {\ln t (t + mstr)} }
 else \frac{\ln t}{\ln t} else \ln t = str.substr(i, 6); \ln t t t = 6; \ln t t \ln t = 6; \ln \ln 
  \ln t \le 2 = \operatorname{Int}(\operatorname{str.substr}(i + 4, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2), 16); \ln t \le 3 = \operatorname{Int}(\operatorname{str.substr}(i + 7, 2); \ln t \le 3 = \operatorname{Int}(\operatorname{str.subst
  += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t\ else {\n\t\t\t\tnewStr} +=
 str.substr(i, 9); \ln t = 9; \ln t = n t = str.substr(i, 3); \ln t = str.substr(i,
  3;\n\t\t\n\n\treturn newStr;\n\n\nfunction normalizeComponentEncoding(components:URIComponents,
 protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\const decStr =
 pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t\\n\n\tif
  (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
 decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components.userinfo!==
 undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT ENCODED,
  decodeUnreserved).replace(protocol.NOT USERINFO, pctEncChar).replace(protocol.PCT ENCODED,
 toUpperCase);\n\tif (components.host !== undefined) components.host =
 String(components.host).replace(protocol.PCT ENCODED,
 decodeUnreserved). to Lower Case (). replace (protocol.NOT\_HOST, pctEncChar). replace (protocol.PCT\_ENCODED, pctEncChar). The context of th
 toUpperCase);\n\tif (components.path !== undefined) components.path =
 String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme?
 protocol.NOT PATH: protocol.NOT PATH NOSCHEME), pctEncChar).replace(protocol.PCT ENCODED,
 toUpperCase);\n\tif (components.query !== undefined) components.query =
 String (components. query). replace (protocol. PCT\_ENCODED, decode Unreserved). replace (protocol. NOT\_QUERY, decode Unreserved). Replace (proto
 pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined)
 components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
  decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
 toUpperCase);\n\n\treturn components;\n\;\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
  {\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\t\n\tif (address)
  {\ntyreturn\ address.split(\".\"):map(\_stripLeadingZeros).join(\".\");nt}\ else {\ntytreturn\ host;\nt}\n}\nfunction
  _normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =
 host.match(protocol.IPV6ADDRESS) || [];\n\tconst [, address, zone] = matches;\n\n\tif (address) {\n\t\tconst [last,
 first] = address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first?
 first.split(\":\").map(_stripLeadingZeros): [];\n\t\tconst lastFields =
last.split(\":\").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
  protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7:
```

```
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\n\t\tfor
(let \ x = 0; \ x < fieldCount; ++x) \ \{\n\t\tfields[x] = firstFields[x] \ || \ lastFields[astFieldsStart + x] \ || \ ";\n\t\t] \ || \ ";\n\t\t\t]
(isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t\n\n\t\const allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
&& lastLongest.index + lastLongest.length === index) \{\n t t t t t t t s t Longest.length ++; \n t t t t \} else
{\langle h/t/t/t/tacc.push(\{index, length : 1 \}); h/t/t/t}/h/t/t\} / h/t/t/teturn acc; h/t/t}, | h/t/t/tacc.push(\{index, length : 1 \}); h/t/t/t/t}/h/t/t/teturn acc; h/t/t}, | h/t/t/tacc.push({index, length : 1 }); h/t/tacc.push({index, length : 1 }); h
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\n\t\tlet newHost:string;\n\t\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\t\const newFirst = fields.slice(0, longestZeroFields.index); \n\t\t\const newLast}
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\tnewHost = newFirst.join(\":\") + \"::\" +
zone; \n\t\t \n\n\t\t else \n\t\t ense \n\t\t \n\t\n\t\n\t\n\t\n\t\t \
/^(?:([^:\\/?#]+):)?(?:\\/((?:([^\/?#@]*)@)?(\\[[^\\/?#\]]+\\]|[^\\/?#:]*)(?:\\:(\\d*))?))?([^?#]*)(?:\\?([^#]*))?(?:#((?:
|\langle n\rangle\rangle/(1+|n\rangle\rangle/(1+|n\rangle).
undefined;\n\nexport function parse(uriString; string, options: URIOptions = { }):URIComponents {\n\tconst
components:URIComponents = { }:\n\tconst protocol = (options.iri !== false ? IRI PROTOCOL :
URI_PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" :
\"\"\ + \"\/\" + uriString;\n\n\tconst matches = uriString.match(URI PARSE);\n\n\tif (matches) {\n\t\tif
(NO MATCH IS UNDEFINED) {\n\t\t\t//store each component\n\t\t\tcomponents.scheme =
matches[1]; \n\t\t\components.userinfo = matches[3]; \n\t\t\components.host = matches[4]; \n\t\t\components.port =
parseInt(matches[5], 10);\n\t\tcomponents.path = matches[6] || \"\";\n\t\tcomponents.query =
matches[7];\n\t\t\components.fragment = matches[8];\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port))
{\ntrue { \ntrue FIX for improper RegExp matching\ntrue { \ntrue { \ntrue FIX for improper RegExp matching\ntrue { \ntrue { \ntrue
each component\n\t\t\components.scheme = matches[1] || undefined;\n\t\t\components.userinfo =
(uriString.indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\t\tcomponents.host = (uriString.indexOf(\"/\") !== -
1 ? matches[4] : undefined);\n\t\t\components.port = parseInt(matches[5], 10);\n\t\t\components.path = matches[6]
\| \'' : \ln t \cdot Components.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] :
undefined);\n\t\t\components.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\n\t\t\t//fix
port number\n\t\t(isNaN(components.port)) \n\t\t(t)tcomponents.port =
(uriString.match(\/\/\/\/:.\|\n)^{\:}\)? matches[4]: undefined);\\ \nttt\/\ntt\/\nnttf (components.host)
{\ntering} {\ntering} IP hosts \ntering IP hos
protocol);\n\t\t}\n\n\t\t//determine reference type\n\t\tif (components.scheme === undefined &&
components.userinfo === undefined && components.host === undefined && components.port === undefined &&
!components.path && components.query === undefined) {\n\t\t\components.reference = \"same-document\":\n\t\t}
else if (components.scheme === undefined) {\n\t\t\components.reference = \"relative\";\n\t\t} else if
(components.fragment === undefined) {n/t/tcomponents.reference = \"absolute\";\n/t/t} else
{\ntrover (\ntrover )^{\prime\prime},\ntrover (\ntrover )^{\prime\prime},\ntrover (\ntrover )^{\prime\prime}} \
options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\t\components.error =
components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t\t/\find scheme
handler\n\t\const schemeHandler = SCHEMES[(options.scheme || components.scheme ||
\"\").toLowerCase()];\n\n\t\t//check if scheme can't handle IRIs\n\t\tif (!options.unicodeSupport &&
(!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t/if host component is a domain name\n\t\t\tif
(components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t\t/\convert
Unicode IDN -> ASCII IDN\n\t\t\t\t {\n\t\t\t\t
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t\t\t}
catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via
punycode: \ '' + e; \ h't \ h't \ h't \ h't \ h't \ l' \ normalize \ Component \ Encoding (components, normalize \ l' \ h't 
URI_PROTOCOL);\n\t\t\ else \\n\t\t\r/\normalize encodings\n\t\t_normalizeComponentEncoding(components,
```

```
protocol);\n\t\t}\n\n\t\t//perform scheme specific parsing\n\t\tif (schemeHandler && schemeHandler.parse)
{\ntrrr} {\ntrrr} = components.error | (components, options); \ntrrrrr} = components.error | (components.error) 
\"URI can not be parsed.\";\n\n\treturn components;\n\};\n\nfunction
_recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\tif
(components.userinfo !== undefined)
{\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t}\n\n\tif (components.host !==
undefined) {\n\t\t//normalize IP hosts, add brackets and escape zone separator for
IPv6\n\t\turiTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol),
protocol).replace(protocol.IPV6ADDRESS, ( , $1, $2) => \"[\" + $1 + ($2 ?\"%25\" + $2 : \"\") + \"]\"));\n\t}\n\n\tif
(typeof components.port === \"number\")
{\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length?
uriTokens.join(\"\"): undefined;\n\\const RDS1 = /^{\.}.\.\\.?\\/;\nconst RDS2 = /^{\.}.\.\\.\\.\\)/\\|
\label{eq:linear_constraint} $$ /^{\...}/s/; \operatorname{RDS} = /^{\...}, \ RDS = /^{\...}, 
removeDotSegments(input:string):string { \n\tconst output: Array< string> = []; \n\twhile (input.length) { \n\twhile (input.length) } } \\
\"\");\n\t\toutput.pop();\n\t\t} else if (input === \".\\" || input === \".\\") n\t\t\ else n\t\
input.slice(s.length);\n\t\t\toutput.push(s);\n\t\t\t} else {\n\t\t\t\tthrow new Error(\"Unexpected dot segment
serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri?
schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()]; \n\n\t/perform scheme
specific serialization\n\tif (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components,
options);\n\n\tif (components.host) {\n\t\t//if host component is an IPv6 address\n\t\tif
(protocol.IPV6ADDRESS.test(components.host)) {\n\t\t\t/TODO: normalize IPv6 address as per RFC
5952\n\t\t}\n\n\t\t/if host component is a domain name\n\t\telse if (options.domainHost || (schemeHandler &&
schemeHandler.domainHost)) {n/t/t/convert IDN via punycode/n/t/ttry {n/t/t/tcomponents.host = (!options.iri
? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()):
punycode.toUnicode(components.host));\n\t\t\t\ catch (e) {\n\t\t\t\components.error = components.error || \"Host's
domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" +
e;\n\t\t\\n\t/\n\t/\n\rt/\normalize encoding\n\t normalizeComponentEncoding(components, protocol);\n\n\tif
(options.reference !== \"suffix\" && components.scheme)
{\ntroven} (\ntrovens.push(\ntrove
_recomposeAuthority(components, options);\n\tif (authority !== undefined) {\n\t\tif (options.reference !==
\"suffix\") {\n\t\turiTokens.push(\"/\");\n\t\t\triTokens.push(authority);\n\n\t\tif (components.path &&
undefined) \{\nt\t s = \text{components.path};\n\t\t if (!options.absolutePath && (!schemeHandler || )
!schemeHandler.absolutePath)) {\n\t\ts = removeDotSegments(s);\n\t\t}\n\n\t\tif (authority === undefined)
\frac{\ln t}{ts} = s.replace(/^\\/, ''/% 2F\''); //don't allow the path to start with
\'''/n\t\t\}\n\n\t\turiTokens.push(s);\n\t\}\n\n\tif\ (components.query !== undefined)
{\n\t\turiTokens.push(\"?\");\n\t\turiTokens.push(components.query);\n\t}\n\n\tif (components.fragment !==
undefined) {\n\t\turiTokens.push(\"#\");\n\t\turiTokens.push(components.fragment);\n\t}\n\n\treturn
uriTokens.join(\"\"); //merge tokens into a string\n\;\n\nexport function resolveComponents(base:URIComponents,
relative:URIComponents, options:URIOptions = { }, skipNormalization?:boolean):URIComponents {\n\tconst
target:URIComponents = \{ \}; \n\n\tif (!skipNormalization) \{ \n\t\tbase = parse(serialize(base, options), options) \}
//normalize base components\n\t\trelative = parse(serialize(relative, options), options); //normalize relative
```

```
components\n\tn/toptions = options || { };\n\ntif (!options.tolerant && relative.scheme) { \n/t\ttarget.scheme =
relative.host;\n\t\ttarget.port = relative.port;\n\t\ttarget.path = removeDotSegments(relative.path ||
\"\");\n\t\ttarget.query = relative.query;\n\t\} else {\n\t\tif (relative.userinfo !== undefined || relative.host !==
undefined || relative.port !== undefined) {\n\t\t//target.authority = relative.authority;\n\t\ttarget.userinfo =
relative.userinfo;\n\t\t\ttarget.host = relative.host;\n\t\t\ttarget.port = relative.port;\n\t\t\ttarget.path =
removeDotSegments(relative.path || \""); \n\t\target.query = relative.query; \n\t\t} else {\n\t\tif (!relative.path)}
(relative.path.charAt(0) === \''/'') \{ \n\t\t\t\target.path = removeDotSegments(relative.path); \n\t\t\t\} else
{\n\t\t\t\t\t\tif ((base.userinfo !== undefined || base.host !== undefined || base.port !== undefined) && !base.path)
{\t t}_t = \t t = \t = \t t 
relative.path;\ln t \cdot \ln 
relative.fragment;\n\n\treturn target;\n};\n\nexport function resolve(baseURI:string, relativeURI:string,
options?:URIOptions):string {\n\tconst schemelessOptions = assign({ scheme : 'null' }, options);\n\treturn
serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions),
schemelessOptions, true), schemelessOptions);\n};\n\nexport function normalize(uri:string,
options?:URIOptions):string;\nexport function normalize(uri:URIComponents,
options?:URIOptions):URIComponents;\nexport function normalize(uri:any, options?:URIOptions):any {\n\tif
(typeof uri === \"string\") {\n\t\uri = serialize(parse(uri, options), options);\n\t} else if (typeOf(uri) === \"object\")
{\n\t\turi = parse(serialize(<URIComponents>uri, options), options);\n\t}\n\n\treturn uri;\n};\n\export function
equal(uriA:string, uriB:string, options?: URIOptions):boolean;\nexport function equal(uriA:URIComponents,
uriB:URIComponents, options?:URIOptions):boolean;\nexport function equal(uriA:any, uriB:any,
options?:URIOptions):boolean {\n\tif (typeof uriA === \"string\") {\n\t\turiA = serialize(parse(uriA, options),
options);\n\t} else if (typeOf(uriA) === \"object\") {\n\t\turiA = serialize(<URIComponents>uriA,
(typeOf(uriB) === \"object\") {\n\t\turiB = serialize(<URIComponents>uriB, options);\n\t}\n\n\treturn uriA ===
uriB;\n};\n\nexport function escapeComponent(str:string, options?:URIOptions):string {\n\treturn str &&
str.toString().replace((!options || !options.iri ? URI PROTOCOL.ESCAPE : IRI PROTOCOL.ESCAPE),
pctEncChar);\n\;\n\nexport function unescapeComponent(str:string, options?:URIOptions):string {\n\treturn str &&
str.toString().replace((!options || !options.iri ? URI PROTOCOL.PCT ENCODED :
IRI_PROTOCOL.PCT_ENCODED), pctDecChars);\n\;\n","'use strict';\n\n/** Highest positive signed 32-bit float
value *\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1 \ln n* Bootstring parameters *\nconst base =
36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst initialBias = 72;\nconst
initialN = 128; // 0x80\nconst delimiter = '-'; // \\x2D\\n\n\/** Regular expressions */\nconst regexPunycode = /^xn--
/;\nconst regexNonASCII = /[^\\0-\\x7E]/; // non-ASCII chars\nconst regexSeparators =
'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code
point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts */\nconst baseMinusTMin = base -
tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n/*------
-----*\n\n/**\n * A generic error utility function.\n * @private\n * @param
{String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n
*/\nfunction error(type) {\n\throw new RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility
function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The
function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the
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callback function.\n \*\nfunction map(array, fn) {\n\tconst result = \[];\n\tle length = array.length;\n\twhile (length--)  ${\ntering \{ \ntering \} \ntering$ work with domain name strings or email\n \* addresses.\n \* @private\n \* @param {String} domain The domain name or email address.\n \* @param {Function} callback The function that gets called for every\n \* character.\n \* @returns {Array} A new string of characters returned by the callback\n \* function.\n \*\nfunction mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = ";\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\tstring = string.replace(regexSeparators, "\\x2E');\n\tconst labels = string.split('.');\n\tconst encoded = map(labels, fn).join('.');\n\treturn result + encoded;\n\n\n/\*\*\n \* Creates an array containing the numeric code points of each Unicode\n \* character in the string. While JavaScript uses UCS-2 internally,\n \* this function will convert a pair of surrogate halves (each of which\n \* UCS-2 exposes as separate characters) into a single code point,\n \* matching UTF-16.\n \* @see `punycode.ucs2.encode`\n \* @see <a href="mailto:</a>/mathiasbynens.be/notes/javascript-encoding>\n \* @memberOf punycode.ucs2\n \* @name decode\n \* @param {String} string The Unicode input string (UCS-2).\n \* @returns {Array} The new array of code points.\n \*\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\const value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <=  $0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\const extra =$ string.charCodeAt(counter++);\n\t\tif ((extra & 0xFC00) == 0xDC00) { // Low unmatched surrogate; only append this code unit, in case the \n\t\t\t\t\t// next code unit is the high surrogate of a surrogate pair. $\n\t\t\$ toutput.push(value); $\n\t\t\$ tcounter--; $\n\t\t\$ else code points.\n \* @see `punycode.ucs2.decode`\n \* @memberOf punycode.ucs2\n \* @name encode\n \* @param {Array} codePoints The array of numeric code points.\n \* @returns {String} The new Unicode string (UCS-2).\n \*\nconst ucs2encode = array => String.fromCodePoint(...array):\n\n/\*\*\n \* Converts a basic code point into a digit/integer.\n \* @see `digitToBasic()`\n \* @private\n \* @param {Number} codePoint The basic numeric code point value.\n \* @returns {Number} The numeric value of a basic code point (for use in\n \* representing integers) in the range '0' to 'base - 1', or 'base' if\n \* the code point does not represent a value.\n \*\nconst basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t\frac{1}{n\t\frac{1}{0x41}} \n\t\treturn codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint - 0x61 < 0x1A} 0x61;\n\t}\n\treturn base;\n\;\n\n/\*\*\n \* Converts a digit/integer into a basic code point.\n \* @ see `basicToDigit()`\n \* @private\n \* @param {Number} digit The numeric value of a basic code point.\n \* @returns {Number} The basic code point whose value (when used for\n \* representing integers) is `digit`, which needs to be in the range\n \* '0' to 'base - 1'. If 'flag' is non-zero, the uppercase form is\n \* used; else, the lowercase form is used. The behavior is undefined\n \* if `flag` is non-zero and `digit` has no uppercase form.\n \*/\nconst digitToBasic = function(digit, flag)  $\left(\frac{1}{0.25}\right) = \frac{1}{0.25}$  map to ASCII a..z or A..Z $\left(\frac{1}{26..35}\right) = \frac{1}{0.9}$  map to ASCII 0..9 $\left(\frac{1}{0..9}\right) = \frac{1}{0..9}$  $((flag != 0) << 5); \n\; \n\n/**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n *$ https://tools.ietf.org/html/rfc3492#section-3.4\n \* @private\n \*\nconst adapt = function(delta, numPoints, firstTime)  $\{\n \le 0; \n \le 1; \n \ge 1; \n \le 1; \n \ge 1;$ numPoints);\n\tfor (/\* no initialization \*/; delta > baseMinusTMin \* tMax >> 1; k += base) {\n\t\tdelta = floor(delta / baseMinusTMin); $\n\t$ n\treturn floor(k + (baseMinusTMin + 1) \* delta / (delta + skew)); $\n\t$ ; $\n\t$ n\n/\*\*\n \* Converts a Punycode string of ASCII-only symbols to a string of Unicode\n \* symbols.\n \* @memberOf punycode\n \* @param {String} input The Punycode string of ASCII-only symbols.\n \* @returns {String} The resulting string of Unicode symbols.\n \*\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if there is none, then copy\n\t// the first basic code points to the output.\n\n\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0)

```
>= 0x80) \\ \ln t \cdot \ln c Main decoding loop:
 start just after the last delimiter if any basic code\n\t// points were copied; start at the beginning otherwise.\n\n\tfor
 (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) \{\n\ is the index of
 the next character to be consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which gets
 added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t//
 value at the end to obtain 'delta'.\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k += base)
 basicToDigit(input.charCodeAt(index++));\n\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w))
 {\nt}(t) = k \le 2  in the first term of the fi
1;\n\t\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t\t/\ i' was supposed to wrap around from `out` to `0`,\n\t\t/\
incrementing `n` each time, so we'll fix that now:\n\t\tif (floor(i / out) > maxInt - n)
 {\n't}\ in '\n'\t\terror('overflow');\n\t\t] \n\n\t\tn += floor(i / out);\n\t\ti %= out;\n\n\t\t// Insert `n` at position `i` of the
 output.\n\t\toutput.splice(i++, 0, n);\n\n\treturn String.fromCodePoint(...output);\n\:\n\*\n * Converts a
 string of Unicode symbols (e.g. a domain name label) to a\n * Punycode string of ASCII-only symbols.\n *
 @memberOf punycode\n * @param {String} input The string of Unicode symbols.\n * @returns {String} The
 resulting Punycode string of ASCII-only symbols.\n *\\nconst encode = function(input) \n\\n\tconst output = \n\\n\\t\/
Convert the input in UCS-2 to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\n\t// Cache the
 length.\n\tlet inputLength = input.length;\n\n\t// Initialize the state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias =
initialBias;\n\n\t// Handle the basic code points.\n\tfor (const currentValue of input) {\n\t\tif (currentValue < 0x80)
 {\ntrover \{\ntrover Nt\t\toutput.push(stringFromCharCode(currentValue));\nt\t\}\nt\t}\nt\t} = output.length;\nt\t}
handledCPCount = basicLength;\n\n\t// handledCPCount is the number of code points that have been handled;\n\t//
 `basicLength` is the number of basic code points.\n\n\t// Finish the basic string with a delimiter unless it's
empty.\n\tif (basicLength) {\n\t\output.push(delimiter);\n\t}\n\n\t// Main encoding loop:\n\twhile (handledCPCount
 < inputLength) {\n\n\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t// larger
 one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) \{\n\t\t(currentValue >= n && currentValue < m)
 {\ntrue current Value; \ntrue \nr vertex} \ntrue current Value; \ntrue \nr vertex \nr 
 <m,0>,\n\t\t// but guard against overflow.\n\t\tconst handledCPCountPlusOne = handledCPCount + 1;\n\t\tif (m - n
> floor((maxInt - delta) / handledCPCountPlusOne)) \\ \ln t = (m - n) *
handledCPCountPlusOne; \n\t = m; \n\t (const currentValue of input) {\n\t (currentValue < n && (currentValue < n & (currentV
 generalized variable-length integer.\h \cdot h \cdot h \cdot h \cdot h and h \cdot h \cdot h are delta; h \cdot h \cdot h \cdot h for (let h \cdot h as e)
 {\nt}(x) = bias + tMax + tMa
 0) \ln t t t t t t = floor(qMinusT / floor(qMi
 handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\tdelta =
Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded
 parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n *
converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or
email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n
 * string.\n *\nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn
regexPunycode.test(string)\n\t\t\t? decode(string.slice(4).toLowerCase())\n\t\t\t: string;\n\t});\n\f\*\n*\n*
Converts a Unicode string representing a domain name or an email address to\n * Punycode. Only the non-ASCII
```

```
parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n *
  ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as a\n
  * Unicode string \n * @returns {String} The Punycode representation of the given domain name or\n * email
 address.\n *\nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn
 regexNonASCII.test(string) \ |\ t \ t': string; \ |\ t'; \ |\ t'; \ |\ t' \ 
  -----*\n\n/** Define the public API *\nconst punycode = {\n\t/**\n\t * A string
 representing the current Punycode.js version number.\n\t * @memberOf punycode\n\t * @type String\n\t
  */\n\t'version': '2.1.0',\n\t/**\n\t * An object of methods to convert from JavaScript's internal character\n\t *
 representation (UCS-2) to Unicode code points, and back.\n\t * @see < https://mathiasbynens.be/notes/javascript-
 encoding>\n\t *@memberOf punycode\n\t *@type Object\n\t */\n\t'ucs2': {\n\t\t'decode': ucs2decode.\n\t\t'encode':
 ucs2encode\n\t},\n\t'decode': decode,\n\t'encode': encode,\n\t'toASCII': toASCII,\n\t'toUnicode':
 toUnicode\n};\n\nexport default punycode;\n","import { URIRegExps } from \"./uri\";\nimport { buildExps } from
\"./regexps-uri\";\n\nexport default buildExps(true);\n","import { URIRegExps } from \"./uri\";\nimport { merge,
 subexp \ from \ ''.'util\''; \ hexport function buildExps(isIRI:boolean): URIRegExps \ \{\ h\ tconst\ h\ t\ tALPHA\$\$ = \ ''[A-t] \ hexport function buildExps(isIRI:boolean): URIRegExps \ from \ hexport function \ 
Za-z]'', \\ | (Vx20)'', \\ | (
 merge(DIGIT\$\$, "[A-Fa-f]"), //case-insensitive\n\t\tEF\$\$ = "[/\\\x0A]\",\n\t\tSP\$\$ = "[\\\x0A]\",\n\t\tSP\$
\label{eq:linear_code} $$ \left( \c E^{-1} + EXDIG^{+} + \c E^{-1} \right) + EXDIG^{+} + \c E^{-1} + EXDIG^{+} + \c E^{-1} + EXDIG^{+} + \c E^{-1} + \c E^{-1
HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"\\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" +
HEXDIG\$\$ + HEXDIG\$\$) + \"|\" + subexp(\"\%\" + HEXDIG\$\$ + HEXDIG\$\$)),
//expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\/\\\\?\\\\#\\\\[\\\\@]\\",\n\t\tSUB_DELIMS$$ =
merge(ALPHA\$\$, DIGIT\$\$, "[\\\-\\\\-\\\\-]\", UCSCHAR\$\$), \\ | (httsCHEME\$ = subexp(ALPHA\$\$ + https://linearchi.else.)) | (httsCHEME\$ = subexp(ALPHA\$\$ + https://linearchi.else.) | (https://linearchi.else.) | (https://linearchi
merge(ALPHA\$\$, DIGIT\$\$, "[\\\-\\\.]\") + \"*\"), \n\t\tUSERINFO\$ = subexp(subexp(PCT\_ENCODED\$ + 1)) + (1) 
\"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ =
 subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT\$\$) + \"|\" + subexp(\"1\" + DIGIT\$\$) + \ |\"|\" + subexp(\"1\" + DIGIT\$\}) + \ |\"|\" + subexp(
\"\|'' + subexp(''[1-9]'' + DIGIT$$) + ''\|'' + DIGIT$$), \n't DEC_OCTET_RELAXED$ = subexp(subexp(''25[0-12]) | subexp(''1-9]'' + DIGIT$$) | subexp(''1-9]'' + DIGIT$$), \n't DEC_OCTET_RELAXED$ = subexp(subexp(''25[0-12]) | subexp(''1-9]'' + DIGIT$$), \n't DEC_OCTET_RELAXED$ = subexp(subexp(''25[0-12]) | subexp(''1-9]'' + DIGIT$$), \n't DEC_OCTET_RELAXED$ = subexp(subexp(''1-9)) | subexp(''1-9)| subexp(''1-9)
5\") + \"\" + subexp(\"2[0-4]\" + DIGIT$$) + \"\" + subexp(\"1\" + DIGIT$$) + \"\\" + subexp(\"0?[1-1]\" + DIGIT$$)
9]\" + DIGIT$$) + \"|0?0?\" + DIGIT$$), //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" +
DEC_OCTET_RELAXED$ + \"\\\\\" + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ +
\ ''_{1,4}''),\ ht\ LS32 = subexp(subexp(H16$ + \"\\\:\" + H16$) + \"\\" + IPV4ADDRESS$), \h\t\IPV6ADDRESS1$
= subexp(
  subexp(H16\$ + \''\') + \''\{6\}\'' + LS32\$), //
h16 \":\") 1s32\n\t\tIPV6ADDRESS2$ = subexp(
   \"\\\:\\\:\" + subexp(H16$ + \"\\\\:\")
   \"::\" 5(h16 \":\") ls32\n\t\tIPV6ADDRESS3\$ = subexp(subexp(
+ "{5}" + LS32$), //
                  H16\$) + "?\|\:\" + subexp(H16\$ + \"\|\:\") + "{4}\" + LS32\$), //[
   h16]\"::\" 4( h16 \":\" )
ls32 \ | \ ls32 \ | 
 subexp(H16$ + \"\\\\:\") + \"{3}\" + LS32$), //[ *1( h16 \":\" ) h16 ] \"::\" 3( h16 \":\" ) ls32\n\t\tIPV6ADDRESS5$
= subexp(subexp(H16\$ + \''') + \''(9,2) + H16\$) + \''? + subexp(H16\$ + \''') + \''(2) + \'''(2) + \'''(3,2) + \'''(1,0) + \'
LS32$), //[ *2( h16 \":\" ) h16 ] \"::\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6$ = subexp(subexp(H16$ +
""(...") + "(0,3)" + H16$) + "?"(..." + H16$)
  H16$ + \"\\\:\"
  + LS32$), //[ *3( h16 \":\" ) h16 ] \"::\" h16
+ LS32$), //[ *4( h16 \":\" ) h16 ] \"::\"
  ls32\n\t\tIPV6ADDRESS8 =
 subexp(subexp(H16\$ + \'\')) + \'(0,5)\' + H16\$) + \''?\'\'.\''
  + H16$), //[ *5( h16
\":\" ) h16 ] \"::\"
  h16\n\t\t IPV6ADDRESS9$ = subexp(subexp(subexp(H16$ + \"\\\\-\") + \"{0,6}\" + H16$)
 +\"?\\\\:\\\:\"
   ), //[ *6( h16 \":\" ) h16 ] \"::\" \n\t \t IPV6ADDRESS$ =
```

```
subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$, IPV6ADDRESS4$, IPV6ADDRESS5$,
IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$, IPV6ADDRESS9$].join(\"\")),\n\t\tZONEID$ =
subexp(subexp(UNRESERVED\$\$ + \"|\" + PCT_ENCODED\$) + \"+\"), \ /\!RFC \ 6874\n\ttlPV6ADDRZ\$ = \ (10.15)
subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$), //RFC 6874\n\t\tIPV6ADDRZ_RELAXED$ =
subexp(IPV6ADDRESS\$ + subexp(\"\\\\%25\\\\\%(?!\" + HEXDIG\$\$ + \"\{2\}\\\") + ZONEID\$), //RFC 6874, with
relaxed parsing rules \n\t\tIPVFUTURE$ = subexp(\[vV]\] + HEXDIG$$ + \"+\\\.\" + merge(UNRESERVED$$,
SUB DELIMS$\$, "[\\\:]\" +\"+\"),\n\t\tIP LITERAL\$ = subexp(\"\\\\[\" + subexp(IPV6ADDRZ RELAXED\$ +
\"\\" + IPV6ADDRESS$ + \"\\" + IPVFUTURE$) + \"\\\\]\", //RFC 6874\n\t\tREG_NAME$ =
subexp(subexp(PCT\_ENCODED\$ + \"\" + merge(UNRESERVED\$\$, SUB\_DELIMS\$\$)) + \"*\",\n\t\tHOST\$ = \"
subexp(IP LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?!\" + REG NAME$ + \")\" + \"|\" +
REG_NAME\$), \\ \\ | h(t)PORT\$ = subexp(DIGIT\$\$ + "*\"), \\ | h(t)AUTHORITY\$ = subexp(subexp(USERINFO\$ + t)), \\ | h(t)PORT\$ = subexp(USERINFO\$ + t)), \\ | h(t)PORT\$ = su
\"@\") +\"?\" + HOST$ + subexp(\"\\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \\"\" +
merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:@]\")),\n\t\tSEGMENT$ = subexp(PCHAR$ +
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\@]\")) +
''+''),\n\t\tPATH_ABEMPTY$ = subexp(subexp(''\)\'' + SEGMENT$) + ''*\''),\n\tt
subexp(\"\\\\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"), //simplified\n\t\tPATH_NOSCHEME$
= subexp(SEGMENT NZ NC$ + PATH ABEMPTY$), //simplified\n\t\tPATH ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_EMPTY$ = \"(?!\" + PCHAR$ +
\"\ + \"\\",\n\t\tPATH_ABSOLUTE$ + \"\\" + PATH_NOSCHEME$ + \"\\" + PATH_NOSCHEME$
''' + PATH ROOTLESS$ + ''' + PATH EMPTY$),\\\\t\\\tQUERY$ = \text{subexp(PCHAR$ + \''|\'' + PATH EMPTY$)}.
merge("[\\\\]", IPRIVATE\$\$)) + "*\"),\n\trRAGMENT\$ = subexp(subexp(PCHAR\$ + \"|[\\\\\]") + "*\"), model of the context of th
""",\n\t\tHIER\_PART = subexp(subexp(\"\\\\\\" + AUTHORITY$ + PATH_ABEMPTY$) + \"\\" +
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEME$ +
\"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
"?", httRELATIVE\_PART$ = subexp(subexp()"\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"\" + AUTHORITY$ + PATH_ABEMPTY$) + \"\" + AUTHORITY$ + PATH_ABEMPTY$)
PATH\_ABSOLUTE\$ + \verb|||| + PATH\_NOSCHEME\$ + \verb||||| + PATH\_EMPTY\$), \verb||n||t||t| = PATH\_EMPTY\$|
\"?\"),\n\t\tURI REFERENCE$ = subexp(URI$ + \"\" + RELATIVE$),\n\t\tABSOLUTE URI$ =
\"^(\" + SCHEME$ + \")\\\:\" + subexp(subexp(\"\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" +
HOST$ + \")\" + subexp(\"\\\:(\" + PORT$ + \")\") + \"?(\" + PATH_ABEMPTY$ + \"\\" +
PATH_ABSOLUTE$ + \"\\" + PATH_ROOTLESS$ + \"\\" + PATH_EMPTY$ + \"\\") + subexp(\"\\\?(\" +
QUERY$ + \")\") + \"?\" + subexp(\"\\\#(\" + FRAGMENT$ + \")\") + \"?\",\n\t\tRELATIVE_REF$ = \"^(){0}\" +
subexp(subexp(\"\\\\\\(\" + subexp(\"\\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" +
PORT$ + \")\") + \"?\\" + PATH_ABEMPTY$ + \"\\" + PATH_ABSOLUTE$ + \"\\" +
PATH_NOSCHEME$ + \"\\" + PATH_EMPTY$ + \"\\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\" +
subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tABSOLUTE_REF$ = \"^(\" + SCHEME$ + \")\\\\:\" +
subexp(subexp(\"\\\\\\\\\\\\" + subexp(\"(\" + USERINFO\$ + \")@\") + \"?(\" + HOST\$ + \")\" + subexp(\"\\\:(\" + HOST\$ + \")\") + subexp(\"\\:(\" + HOST\$ + \")\"\" + subexp(\"\\:(\" + HOST\$ + \")\") + subexp(\"\\"\\:(\" + HOST\$ + \")\") + subexp(\"\\:(\" + HOST\$ + \")\") + subexp(\"\\:(\" + HOST\$ + \")\") + subexp(\"\\:(\" + HOST\$ + \")\" + subexp(\"\\ \" + HOST\$ + \")\" + subexp(\"\\ \" + HOST\$ + \"\"\" + subexp(\"\\ \" + HOST\$ + \"\" + HOST\ + \"\" + subexp(\"\\ \" + HOST\ + HOS
PORT$ + \")\") + \"?(\" + PATH_ABEMPTY$ + \"\\" + PATH_ABSOLUTE$ + \"\\" +
PATH_ROOTLESS$ + \"\\" + PATH_EMPTY$ + \"\\") + subexp(\"\\\?(\" + QUERY$ + \")\") +
"?\",\n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"\\\#(\" + FRAGMENT$ + \")\") +
\"?$\",\n\t\tAUTHORITY_REF$ = \"\" + subexp(\"(\" + USERINFO$ + \")\@\") + \"?(\" + HOST$ + \")\" +
subexp(\"\") + \"PORT\$ + \") + \"?\$\"\ h\ t; \ h\ treturn \ \{\n\ tNOT\_SCHEME : new \ RegExp(merge(\"[^]\", n\ treturn \ for \ h\ treturn \ for \
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\NOT_HOST : new RegExp(merge(\"[^\\\\\\\\\\]\\\\]\\\]\\\\]\\\\]\\\\]
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH: new RegExp(merge(\"[^\\\\%\\\\\\\\\\\]","
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH_NOSCHEME: new
```

RegExp(merge(\"[^\\\\\\\\]\", UNRESERVED\$\$, SUB\_DELIMS\$\$), \"g\"),\n\t\tNOT\_QUERY: new RegExp(merge(\"[^\\\\%]\", UNRESERVED\$\$, SUB\_DELIMS\$\$, \"[\\\\:\\\@\\\\\?]\", IPRIVATE\$\$), \"g\"),\n\t\tNOT\_FRAGMENT: new RegExp(merge(\"[^\\\\%]\", UNRESERVED\$\$, SUB\_DELIMS\$\$, \"[\\\:\\\@\\\\/]\"),\"g\"),\n\t\tESCAPE: new RegExp(merge(\"[^]\", UNRESERVED\$\$, SUB\_DELIMS\$\$), \"g\"),\n\t\tUNRESERVED: new RegExp(UNRESERVED\$\$, \"g\"),\n\t\tOTHER\_CHARS: new RegExp(PCT\_ENCODED\$, \"g\"),\n\t\tIPV4ADDRESS: new RegExp(\"^(\" + IPV4ADDRESS\$ +  $\")\$ \"),\n\t\tIPV6ADDRESS: new RegExp(\"^\\\\[?(\" + IPV6ADDRESS\$ + \")\" + subexp(subexp(\"\\\\%25\\\\\%(?!\" + HEXDIG\$\$ + \"{2})\") + \"(\" + ZONEID\$ + \")\") + \"?\\\\]?\$\") //RFC 6874, with relaxed parsing rules\n\t\;\n\nexport default buildExps(false);\n","export function  $merge(...sets:Array < string >):string { (sets.length > 1) { (n \times [0] = sets[0].slice(0, -1); (n \times xl = sets[0].slice(0, -1)$  $sets[x1].slice(1);\n\t\treturn sets.join(");\n\t\ else {\n\treturn sets[0];\n\t\n\n\ensersfull}$  $subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n\n\nexport function typeOf(o:any):string {\n\treturn o === }$ undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\" \").pop().split(\"]\").shift().toLowerCase());\n}\n\nexport function toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n\n\nexport function toArray(obj:any):Array<any> {\n\treturn obj !== undefined && obj !== null? (obj instanceof Array? obj: (typeof obj.length!== \"number\" || obj.split || obj.setInterval || obj.call? [obj]: Array.prototype.slice.call(obj))):  $\lceil \frac{n}{n \cdot n} \right|$ target as any;\n\tif (source)  $\n\cdot t\t (source) {n\t (sou$ obj;\n}"], "names": ["SCHEMES", "uuid", "scheme", "urn", "mailto", "https", "http", "urnComponents", "nss", "uuidComp onents", "toLowerCase", "options", "error", "tolerant", "match", "UUID", "undefined", "handler", "uriComponents", "path" ","nid","schemeHandler","serialize","urnScheme","parse","matches","components","URN\_PARSE","query","fields, "join","length","push","name","replace","PCT\_ENCODED","decodeUnreserved","toUpperCase","NOT\_HFNAME ","pctEncChar","headers","NOT\_HFVALUE","O","mailtoComponents","body","subject","to","x","localPart","dom ain", "iri", "e", "punycode", "toASCII", "unescapeComponent", "toUnicode", "toAddr", "slice", "atIdx", "NOT LOCAL P ART", "lastIndexOf", "String", "xl", "toArray", "addr", "unicodeSupport", "split", "unknownHeaders", "hfield", "toAddrs", "hfields", "decStr", "UNRESERVED", "str", "pctDecChars", "RegExp", "merge", "UNRESERVED\$\$", "SOME\_DELIM S\$\$","ATEXT\$\$","VCHAR\$\$","PCT ENCODED\$","QTEXT\$\$","subexp","HEXDIG\$\$","isIRI","domainHost"," port", "host", "toString", "URI PROTOCOL", "IRI PROTOCOL", "ESCAPE", "escapeComponent", "uriA", "uriB", "typ eOf","equal","uri","normalize","resolveComponents","baseURI","schemelessOptions","relativeURI","assign","resol ve", "target", "fragment", "relative", "base", "userinfo", "removeDotSegments", "charAt", "skipNormalization", "uriToken s","s","authority","absolutePath","reference","\_recomposeAuthority","protocol","IPV6ADDRESS","test","output"," Error", "input", "im", "RDS5", "pop", "RDS3", "RDS2", "RDS1", "\$1", "\$2", "\_normalizeIPv6", "\_normalizeIPv4", "\_", "uri String", "isNaN", "indexOf", "parseInt", "NO MATCH IS UNDEFINED", "URI PARSE", "newHost", "zone", "newFi rst", "newLast", "longestZeroFields", "index", "b", "a", "allZeroFields", "sort", "acc", "lastLongest", "field", "reduce", "field Count", "isLastFieldIPv4Address", "firstFields", "lastFields", "lastFieldsStart", "Array", "IPV4ADDRESS", "last", "map" ","stripLeadingZeros","first","address","reverse","NOT\_FRAGMENT","NOT\_QUERY","NOT\_PATH","NOT\_PA TH\_NOSCHEME","NOT\_HOST","NOT\_USERINFO","NOT\_SCHEME","\_normalizeComponentEncoding","new Str", "substr", "i", "fromCharCode", "c", "c2", "c3", "il", "chr", "charCodeAt", "encode", "decode", "ucs2encode", "ucs2deco de","regexNonASCII","string","mapDomain","regexPunycode","n","delta","handledCPCount","adapt","handledCP CountPlusOne", "basicLength", "stringFromCharCode", "digitToBasic", "q", "floor", "qMinusT", "baseMinusT", "t", "k", "bias","tMin","tMax","currentValue","maxInt","m","inputLength","delimiter","initialBias","initialN","fromCodePoi nt", "splice", "out", "oldi", "w", "digit", "basicToDigit", "basic", "j", "baseMinusTMin", "skew", "numPoints", "firstTime", " damp", "flag", "codePoint", "array", "value", "extra", "counter", "result", "encoded", "labels", "fn", "regexSeparators", "part s","RangeError","errors","type","Math","buildExps","IPV6ADDRESS\$","ZONEID\$","IPV4ADDRESS\$","RESER VED\$\$","SUB\_DELIMS\$\$","IPRIVATE\$\$","ALPHA\$\$","DIGIT\$\$","AUTHORITY\_REF\$","USERINFO\$","HO ST\$","PORT\$","SAMEDOC\_REF\$","FRAGMENT\$","ABSOLUTE\_REF\$","SCHEME\$","PATH\_ABEMPTY\$",

"PATH\_ABSOLUTE\$","PATH\_ROOTLESS\$","PATH\_EMPTY\$","QUERY\$","RELATIVE\_REF\$","PATH\_NO SCHEME\$","GENERIC\_REF\$","ABSOLUTE\_URI\$","HIER\_PART\$","URI\_REFERENCE\$","URI\$","RELATI VE\$","RELATIVE\_PART\$","AUTHORITY\$","PCHAR\$","PATH\$","SEGMENT\_NZ\$","SEGMENT\_NZ\_NC\$", "SEGMENT\$","IP LITERAL\$","REG NAME\$","IPV6ADDRZ RELAXED\$","IPVFUTURE\$","IPV6ADDRES S1\$","IPV6ADDRESS2\$","IPV6ADDRESS3\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDRESS6\$","IPV6ADDR PV6ADDRESS7\$","IPV6ADDRESS8\$","IPV6ADDRESS9\$","H16\$","LS32\$","DEC OCTET RELAXED\$","DE C OCTET\$","UCSCHAR\$\$","GEN DELIMS\$\$","SP\$\$","DQUOTE\$\$","CR\$","obj","key","source","setInterval", "call","prototype","o","Object","shift","sets"],"mappings":";;;;;;AUAA,SAAA4E,KAAA,GAAA;sCAAyBkP,IAAz B;YAAA;;;QACKA,KAAK/R,MAAL,GAAc,CAAlB,EAAqB;aACf,CAAL,IAAU+R,KAAK,CAAL,EAAQrQ,KA AR,CAAc,CAAd,EAAiB,CAAC,CAAlB,CAAV;YACMK,KAAKgQ,KAAK/R,MAAL,GAAc,CAAzB;aACK,IAA IgB,IAAI,CAAb,EAAgBA,IAAIe,EAApB,EAAwB,EAAEf,CAA1B,EAA6B;iBACvBA,CAAL,IAAU+Q,KAAK/Q ,CAAL,EAAQU,KAAR,CAAc,CAAd,EAAiB,CAAC,CAAlB,CAAV;;aAEIK,EAAL,IAAWgQ,KAAKhQ,EAAL,E AASL,KAAT,CAAe,CAAf,CAAX;eACOqQ,KAAKhS,IAAL,CAAU,EAAV,CAAP;KAPD,MAQO;eACCgS,KAA K,CAAL,CAAP;;;AAIF,AAAA,SAAA3O,MAAA,CAAuBV,GAAvB,EAAA;WACQ,QAAQA,GAAR,GAAc,GA ArB;;AAGD,AAAA,SAAAuB,MAAA,CAAuB2N,CAAvB,EAAA;WACQA,MAAM3S,SAAN,GAAkB,WAAIB,G AAiC2S,MAAM,IAAN,GAAa,MAAb,GAAsBC,OAAOF,SAAP,CAAiBjO,QAAjB,CAA0BgO,IAA1B,CAA+BE, CAA/B,EAAkCzP,KAAlC,CAAwC,GAAxC,EAA6C8D,GAA7C,GAAmD9D,KAAnD,CAAyD,GAAzD,EAA8D2 P,KAA9D,GAAsEnT,WAAtE,EAA9D;;AAGD,AAAA,SAAA2B,WAAA,CAA4BoC,GAA5B,EAAA;WACQA,IA AIpC,WAAJ,EAAP;;AAGD,AAAA,SAAA0B,OAAA,CAAwBsP,GAAxB,EAAA;WACQA,QAAQrS,SAAR,IAA qBqS,QAAQ,IAA7B,GAAqCA,eAAenJ,KAAf,GAAuBmJ,GAAvB,GAA8B,OAAOA,IAAItR,MAAX,KAAsB,QA AtB,IAAkCsR,IAAInP,KAAtC,IAA+CmP,IAAIG,WAAnD,IAAkEH,IAAII,IAAtE,GAA6E,CAACJ,GAAD,CAA7 E,GAAqFnJ,MAAMwJ,SAAN,CAAgBjQ,KAAhB,CAAsBgQ,IAAtB,CAA2BJ,GAA3B,CAAxJ,GAA4L,EAAnM;; 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zB,CAAZ,GAA6C,IAA7C,GAAoDC,KAApD,GAA4D,GAA5D,GAAkElL,OAAO,SAASmL,KAAT,GAAiB,GAA xB,CAAIE,GAAiG,IAAxG,IAAgH,IAAhH,GAAuHK,aAAvH,GAAuI,GAAvI,GAA6IC,cAA7I,GAA8J,GAA9J,G AAoKC,cAApK,GAAqL,GAArL,GAA2LC,WAA3L,GAAyM,GAAhN,CAA1B,GAAiP3L,OAAO,SAAS4L,MAA T,GAAkB,GAAzB,CAAjP,GAAiR,IA9DlS;QA+DCR,eAAe,MAAMpL,OAAO,SAASqL,SAAT,GAAqB,GAA5B, CAAN,GAAyC,IA/DzD;QAgECL,iBAAiB,MAAMhL,OAAO,MAAMiL,SAAN,GAAkB,IAAzB,CAAN,GAAuC,I AAvC,GAA8CC,KAA9C,GAAsD,GAAtD,GAA4DIL,OAAO,SAASmL,KAAT,GAAiB,GAAxB,CAA5D,GAA2F, IAhE7G;WAmEO;oBACO,IAAI3L,MAAJ,CAAWC,MAAM,KAAN,EAAaqL,OAAb,EAAsBC,OAAtB,EAA+B,a AA/B,CAAX,EAA0D,GAA1D,CADP;sBAES,IAAIvL,MAAJ,CAAWC,MAAM,WAAN,EAAmBC,YAAnB,EAAi CkL,YAAjC,CAAX,EAA2D,GAA3D,CAFT;kBAGK,IAAIpL,MAAJ,CAAWC,MAAM,iBAAN,EAAyBC,YAAzB ,EAAuCkL,YAAvC,CAAX,EAAiE,GAAjE,CAHL;kBAIK,IAAIpL,MAAJ,CAAWC,MAAM,iBAAN,EAAyBC,Y AAzB,EAAuCkL,YAAvC,CAAX,EAAiE,GAAjE,CAJL;2BAKc,IAAIpL,MAAJ,CAAWC,MAAM,cAAN,EAAsB C,YAAtB,EAAoCkL,YAApC,CAAX,EAA8D,GAA9D,CALd;mBAMM,IAAIpL,MAAJ,CAAWC,MAAM,QAAN, EAAgBC,YAAhB,EAA8BkL,YAA9B,EAA4C,gBAA5C,EAA8DC,UAA9D,CAAX,EAAsF,GAAtF,CANN;sBAO S,IAAIrL,MAAJ,CAAWC,MAAM,QAAN,EAAgBC,YAAhB,EAA8BkL,YAA9B,EAA4C,gBAA5C,CAAX,EAA0 E,GAA1E,CAPT;gBAQG,IAAIpL,MAAJ,CAAWC,MAAM,KAAN,EAAaC,YAAb,EAA2BkL,YAA3B,CAAX,EA AqD,GAArD,CARH;oBASO,IAAIpL,MAAJ,CAAWE,YAAX,EAAyB,GAAzB,CATP;qBAUQ,IAAIF,MAAJ,CA AWC,MAAM,QAAN,EAAgBC,YAAhB,EAA8BiL,UAA9B,CAAX,EAAsD,GAAtD,CAVR;qBAWQ,IAAInL,MA AJ,CAAWM,YAAX,EAAyB,GAAzB,CAXR;qBAYQ,IAAIN,MAAJ,CAAW,OAAOkL,YAAP,GAAsB,IAAjC,CA ZR;qBAaQ,IAAIIL,MAAJ,CAAW,WAAWgL,YAAX,GAA0B,GAA1B,GAAgCxK,OAAOA,OAAO,iBAAiBC,Q AAjB,GAA4B,MAAnC,IAA6C,GAA7C,GAAmDwK,OAAnD,GAA6D,GAApE,CAAhC,GAA2G,QAAtH,CAbR; ;;;;;;;;;;;;;ADDA;;AACA,IAAMpC,SAAS,UAAf;;;AAGA,IAAMzG,OAAO,EAAb;AACA,IAAMsG,OAAO ,CAAb;AACA,IAAMC,OAAO,EAAb;AACA,IAAMkB,OAAO,EAAb;AACA,IAAMG,OAAO,GAAb;AACA,IAA Mf,cAAc,EAApB;AACA,IAAMC,WAAW,GAAjB;AACA,IAAMF,YAAY,GAAlB;;;AAGA,IAAMtB,gBAAgB,O AAtB;AACA,IAAMH,gBAAgB,YAAtB;AACA,IAAMoD,kBAAkB,2BAAxB;;;AAGA,IAAMG,SAAS;aACF,iDA DE;cAED,gDAFC;kBAGG;CAHIB;;;AAOA,IAAMIB,gBAAgBxH,OAAOsG,IAA7B;AACA,IAAMN,QAAQ4C,K AAK5C,KAAnB;AACA,IAAMH,qBAAqB7I,OAAOwH,YAAlC;;;;;;;;AAUA,SAASzK,OAAT,CAAe4O,IAAf,E AAqB;OACd,IAAIF,UAAJ,CAAeC,OAAOC,IAAP,CAAf,CAAN;;;;;;;;AAWD,SAASnF,GAAT,CAAauE,KAAb ,EAAoBO,EAApB,EAAwB;KACjBH,SAAS,EAAf;KACIjN,SAAS6M,MAAM7M,MAAnB;QACOA,QAAP,EAAi B;SACTA,MAAP,IAAiBoN,GAAGP,MAAM7M,MAAN,CAAH,CAAjB;;QAEMiN,MAAP;;;;;;;;AAaD,SAAS 9C,SAAT,CAAmBD,MAAnB,EAA2BkD,EAA3B,EAA+B;KACxBE,QAAQpD,OAAO/H,KAAP,CAAa,GAAb,C AAd;KACI8K,SAAS,EAAb;KACIK,MAAMtN,MAAN,GAAe,CAAnB,EAAsB;;;WAGZsN,MAAM,CAAN,IAA W,GAApB;WACSA,MAAM,CAAN,CAAT;;;UAGQpD,OAAO/J,OAAP,CAAekN,eAAf,EAAgC,MAAhC,CAAT; KACMF,SAASjD,OAAO/H,KAAP,CAAa,GAAb,CAAf;KACM+K,UAAU5E,IAAI6E,MAAJ,EAAYC,EAAZ,EA AgBrN,IAAhB,CAAqB,GAArB,CAAhB;QACOkN,SAASC,OAAhB;;;;;;;;;AAgBD,SAASID,UAAT,CAAoBE ,MAApB,EAA4B;KACrBtE,SAAS,EAAf;KACIoH,UAAU,CAAd;KACMhN,SAASkK,OAAOIK,MAAtB;QACOg N,UAAUhN,MAAjB,EAAyB;MAClB8M,QAAQ5C,OAAON,UAAP,CAAkBoD,SAAlB,CAAd;MACIF,SAAS,M AAT,IAAmBA,SAAS,MAA5B,IAAsCE,UAAUhN,MAApD,EAA4D;;OAErD+M,QAAQ7C,OAAON,UAAP,CA AkBoD,SAAIB,CAAd;OACI,CAACD,QAAQ,MAAT,KAAoB,MAAxB,EAAgC;;WACxB9M,IAAP,CAAY,CAA C,CAAC6M,QAAQ,KAAT,KAAmB,EAApB,KAA2BC,QAAQ,KAAnC,IAA4C,OAAxD;IADD,MAEO;;;;WAGC9 M,IAAP,CAAY6M,KAAZ;;;GARF,MAWO;UACC7M,IAAP,CAAY6M,KAAZ;;;QAGKIH,MAAP;;;;;;;;AAWD ,IAAMmE,aAAa,SAAbA,UAAa;QAASjI,OAAO+J,aAAP,iCAAwBgB,KAAxB,EAAT;CAAnB;;;;;;;;;AAWA,IA AMV,eAAe,SAAfA,YAAe,CAASS,SAAT,EAAoB;KACpCA,YAAY,IAAZ,GAAmB,IAAvB,EAA6B;SACrBA,Y AAY,IAAnB;;KAEGA,YAAY,IAAZ,GAAmB,IAAvB,EAA6B;SACrBA,YAAY,IAAnB;;KAEGA,YAAY,IAAZ,G AAmB,IAAvB,EAA6B;SACrBA,YAAY,IAAnB;;QAEM9H,IAAP;CAVD;;;;;;;;AAwBA,IAAM8F,eAAe,SAAf A,YAAe,CAASsB,KAAT,EAAgBS,IAAhB,EAAsB;;;QAGnCT,QAAQ,EAAR,GAAa,MAAMA,QAAQ,EAAd,CA Ab,IAAkC,CAACS,QAAQ,CAAT,KAAe,CAAjD,CAAP;CAHD;;;;;;AAWA,IAAMnC,QAAQ,SAARA,KAAQ,C AASF,KAAT,EAAgBkC,SAAhB,EAA2BC,SAA3B,EAAsC;KAC/CvB,IAAI,CAAR;SACQuB,YAAY3B,MAAM

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D,GAAoEA,QAA3E,IAAuF,GAAvF,GAA6FD,OAAO,gBAAgBC,QAAhB,GAA2B,GAA3B,GAAiCA,QAAjC,G AA4CA,QAAnD,CAA7F,GAA4J,GAA5J,GAAkKD,OAAO,MAAMC,QAAN,GAAiBA,QAAxB,CAAzK,CAArB; ;;;;;;;AaaA,IAAML,UAAU,uDAAhB;AACA,IAAMG,UAAU,4DAAhB;AACA,IAAMF,UAAUJ,MAAMM,OA AN,EAAe,YAAf,CAAhB;AACA,AACA,AACA,AACA,AAEA,AAEA,IAAMJ,gBAAgB,qCAAtB;AACA,AACA, ,YAAX,EAAyB,GAAzB,CAAnB;AACA,IAAM1C,cAAc,IAAIwC,MAAJ,CAAWM,YAAX,EAAyB,GAAzB,CA ApB;AACA,IAAMtB,iBAAiB,IAAIgB,MAAJ,CAAWC,MAAM,KAAN,EAAaG,OAAb,EAAsB,OAAtB,EAA+B, OAA/B,EAAwCC,OAAxC,CAAX,EAA6D,GAA7D,CAAvB;AACA,AACA,IAAM1C,aAAa,IAAIqC,MAAJ,CAA WC,MAAM,KAAN,EAAaC,YAAb,EAA2BC,aAA3B,CAAX,EAAsD,GAAtD,CAAnB;AACA,IAAMrC,cAAcH,U AApB;AACA,AACA,AAEA,SAAAF,gBAAA,CAA0BqC,GAA1B,EAAA;QACOF,SAASG,YAAYD,GAAZ,CAA f;WACQ,CAACF,OAAOzD,KAAP,CAAa0D,UAAb,CAAD,GAA4BC,GAA5B,GAAkCF,MAA1C;;AAGD,IAAM tD,YAA8C;YAC1C,QAD0C;WAG3C,kBAAUS,UAAV,EAAoCf,OAApC,EAAT;YACQgC,mBAAmBjB,UAAzB; YACMoB,KAAKH,iBAAiBG,EAAjB,GAAuBH,iBAAiBxB,IAAjB,GAAwBwB,iBAAiBxB,IAAjB,CAAsB+C,K AAtB,CAA4B,GAA5B,CAAxB,GAA2D,EAA7F;yBACiB/C,IAAjB,GAAwBH,SAAxB;YAEI2B,iBAAiBf,KAAr B,EAA4B;gBACvBuC,iBAAiB,KAArB;gBACM3B,UAAwB,EAA9B;gBACM8B,UAAU3B,iBAAiBf,KAAjB,CA AuBsC,KAAvB,CAA6B,GAA7B,CAAhB;iBAEK,IAAInB,IAAI,CAAR,EAAWe,KAAKQ,QAAQvC,MAA7B,EA AqCgB,IAAIe,EAAzC,EAA6C,EAAEf,CAA/C,EAAkD;oBAC3CqB,SAASE,QAAQvB,CAAR,EAAWmB,KAAX ,CAAiB,GAAjB,CAAf;wBAEQE,OAAO,CAAP,CAAR;yBACM,IAAL;4BACOC,UAAUD,OAAO,CAAP,EAAU F,KAAV,CAAgB,GAAhB,CAAhB;6BACK,IAAInB,KAAI,CAAR,EAAWe,MAAKO,QAAQtC,MAA7B,EAAqCg B,KAAIe,GAAzC,EAA6C,EAAEf,EAA/C,EAAkD;+BAC9Cf,IAAH,CAAQqC,QAAQtB,EAAR,CAAR;;;yBAGG, SAAL;yCACkBF,OAAjB,GAA2BS,kBAAkBc,OAAO,CAAP,CAAlB,EAA6BzD,OAA7B,CAA3B;;yBAEI,MAA L;yCACkBiC,IAAjB,GAAwBU,kBAAkBc,OAAO,CAAP,CAAlB,EAA6BzD,OAA7B,CAAxB;;;yCAGiB,IAAjB;g CACQ2C,kBAAkBc,OAAO,CAAP,CAAlB,EAA6BzD,OAA7B,CAAR,IAAiD2C,kBAAkBc,OAAO,CAAP,CAAl B,EAA6BzD,OAA7B,CAAjD;;;;gBAKCwD,cAAJ,EAA0BxB,iBAAiBH,OAAjB,GAA2BA,OAA3B;;yBAGJZ,KA AjB,GAAyBZ,SAAzB;aAEK,IAAI+B,MAAI,CAAR,EAAWe,OAAKhB,GAAGf,MAAxB,EAAgCgB,MAAIe,IAA pC,EAAwC,EAAEf,GAA1C,EAA6C;gBACtCiB,OAAOlB,GAAGC,GAAH,EAAMmB,KAAN,CAAY,GAAZ,CA Ab;iBAEK,CAAL,IAAUZ,kBAAkBU,KAAK,CAAL,CAAlB,CAAV;gBAEI,CAACrD,QAAQsD,cAAb,EAA6B;;o BAExB;yBACE,CAAL,IAAUb,SAASC,OAAT,CAAiBC,kBAAkBU,KAAK,CAAL,CAAIB,EAA2BrD,OAA3B,E AAoCD,WAApC,EAAjB,CAAV;iBADD,CAEE,OAAOyC,CAAP,EAAU;qCACMvC,KAAjB,GAAyB+B,iBAAiB /B,KAAjB,IAA0B,6EAA6EuC,CAAhI;;aALF,MAOO;qBACD,CAAL,IAAUG,kBAAkBU,KAAK,CAAL,CAAlB, EAA2BrD,OAA3B,EAAoCD,WAApC,EAAV;;eAGEqC,GAAH,IAAQiB,KAAKIC,IAAL,CAAU,GAAV,CAAR;; eAGMa,gBAAP;KA5DkD;eA+DvC,sBAAUA,gBAAV,EAA6ChC,OAA7C,EAAb;YACQe,aAAaiB,gBAAnB;YA CMG,KAAKiB,QAAQpB,iBAAiBG,EAAzB,CAAX;YACIA,EAAJ,EAAQ;iBACF,IAAIC,IAAI,CAAR,EAAWe, KAAKhB,GAAGf,MAAxB,EAAgCgB,IAAIe,EAApC,EAAwC,EAAEf,CAA1C,EAA6C;oBACtCS,SAASK,OAA Of,GAAGC,CAAH,CAAP,CAAf;oBACMW,QAAQF,OAAOI,WAAP,CAAmB,GAAnB,CAAd;oBACMZ,YAAaQ ,OAAOC,KAAP,CAAa,CAAb,EAAgBC,KAAhB,CAAD,CAAyBxB,OAAzB,CAAiCC,WAAjC,EAA8CC,gBAA9 C,EAAgEF,OAAhE,CAAwEC,WAAxE,EAAqFE,WAArF,EAAkGH,OAAlG,CAA0GyB,cAA1G,EAA0HpB,UAA 1H,CAAlB;oBACIU,SAASO,OAAOC,KAAP,CAAaC,QAAQ,CAArB,CAAb;;oBAGI;6BACO,CAAC/C,QAAQu C,GAAT,GAAeE,SAASC,OAAT,CAAiBC,kBAAkBL,MAAlB,EAA0BtC,OAA1B,EAAmCD,WAAnC,EAAjB,C AAf,GAAoF0C,SAASG,SAAT,CAAmBN,MAAnB,CAA9F;iBADD,CAEE,OAAOE,CAAP,EAAU;+BACAvC,K AAX,GAAmBc,WAAWd,KAAX,IAAoB,0DAA0D,CAACD,QAAQuC,GAAT,GAAe,OAAf,GAAyB,SAAnF,IAA gG,iBAAhG,GAAoHC,CAA3J;;mBAGEJ,CAAH,IAAQC,YAAY,GAAZ,GAAkBC,MAA1B;;uBAGU9B,IAAX,G AAkB2B,GAAGhB,IAAH,CAAQ,GAAR,CAAIB;;YAGKU,UAAUG,iBAAiBH,OAAjB,GAA2BG,iBAAiBH,OA AjB,IAA4B,EAAvE;YAEIG,iBAAiBE,OAArB,EAA8BL,QAAQ,SAAR,IAAqBG,iBAAiBE,OAAtC;YAC1BF,iB AAiBC,IAArB,EAA2BJ,QAAQ,MAAR,IAAkBG,iBAAiBC,IAAnC;YAErBf,SAAS,EAAf;aACK,IAAMI,IAAX,I AAmBO,OAAnB,EAA4B;gBACvBA,QAAQP,IAAR,MAAkBS,EAAET,IAAF,CAAtB,EAA+B;uBACvBD,IAAP, CACCC,KAAKC,OAAL,CAAaC,WAAb,EAA0BC,gBAA1B,EAA4CF,OAA5C,CAAoDC,WAApD,EAAiEE,WA AjE,EAA8EH,OAA9E,CAAsFI,UAAtF,EAAkGC,UAAIG,IACA,GADA,GAEAC,QAAQP,IAAR,EAAcC,OAAd,

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#### Found in path(s):

 $*/opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.js.map$ 

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

```
import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';
const packageJson = require('./package.json');

export default {
  entry : "dist/esnext/index.js",
  format : "umd",
  moduleName : "URI",
  plugins: [
  resolve({
    module: true,
    jsnext: true,
    preferBuiltins: false
  }),

babel({
    "presets": [
```

```
["latest", {
    "es2015": {
        "modules": false
    }
    }]
    ],
    "plugins": ["external-helpers"],
    "externalHelpers": false
}
)
],
dest : "dist/es5/uri.all.js",
sourceMap: true,
banner: "/** @license URI.js v" + packageJson.version + " (c) 2011 Gary Court. License:
http://github.com/garycourt/uri-js */"
}
Found in path(s):
```

\*/opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-

## 1.54 callsite 1.0.0

4f6f600/rollup.config.js

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# 1.55 xmlhttprequest-ssl 1.5.3

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# 1.56 bunyan-format 0.2.1

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## 1.57 co 4.6.0

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## 1.58 better-assert 1.0.2

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# better-assert

Better c-style assertions using [callsite](https://github.com/visionmedia/callsite) for self-documenting failure messages.

## Installation

```
$ npm install better-assert
```

```
## Example
```

```
By default assertions are enabled, however the __NO_ASSERT__ environment variable will deactivate them when truthy.
```

```
```is
var assert = require('better-assert');
test();
function test() {
var user = { name: 'tobi' };
assert('tobi' == user.name);
assert('number' == typeof user.age);
AssertionError: 'number' == typeof user.age
 at test (/Users/tj/projects/better-assert/example.js:9:3)
 at Object.<anonymous> (/Users/tj/projects/better-assert/example.js:4:1)
 at Module._compile (module.js:449:26)
 at Object.Module._extensions..js (module.js:467:10)
 at Module.load (module.js:356:32)
 at Function. Module. load (module.js:312:12)
 at Module.runMain (module.js:492:10)
 at process.startup.processNextTick.process._tickCallback (node.js:244:9)
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```

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#### Found in path(s):

\*/opt/cola/permits/1110635455\_1607050460.22/0/better-assert-1-0-2-4-tgz/package/Readme.md

# 1.59 glob 7.1.2

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# 1.60 jsonify 0.0.0

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# jsonify

This module provides Douglas Crockford's JSON implementation without modifying any globals.

'stringify' and 'parse' are merely exported without respect to whether or not a

```
global 'JSON' object exists.
[![build status](https://secure.travis-ci.org/substack/jsonify.png)](http://travis-ci.org/substack/jsonify)
# methods
``` js
var json = require('jsonify');
## json.parse(source, reviver)
Return a new javascript object from a parse of the `source` string.
If a 'reviver' function is specified, walk the structure passing each name/value
pair to 'reviver.call(parent, key, value)' to transform the 'value' before
parsing it.
## json.stringify(value, replacer, space)
Return a string representation for `value`.
If `replacer` is specified, walk the structure passing each name/value pair to
`replacer.call(parent, key, value)` to transform the `value` before stringifying
it.
If `space` is a number, indent the result by that many spaces.
If `space` is a string, use `space` as the indentation.
# install
With [npm](http://npmjs.org) do:
npm install jsonify
To use this module in the browser, check out
[browserify](https://github.com/substack/node-browserify).
# license
public domain
Found in path(s):
*/opt/cola/permits/1108587829_1609900447.26/0/jsonify-master-zip/jsonify-master/readme.markdown
```

# 1.61 body-parser 1.19.0

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# 1.63 parseurl 1.3.3

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# 1.64 hpkp 1.2.0

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## 1.65 safe-buffer 5.1.2

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## 1.66 har-schema 2.0.0

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# 1.67 path-to-regexp 0.1.7

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# 1.68 path-is-absolute 1.0.1

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## 1.69 bluebird 3.5.3

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# 1.70 parsejson 0.0.3

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# 1.71 has-binary 0.1.7

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## 1.72 follow-redirects 1.5.10

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## 1.73 nocache 1.0.1

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# 1.74 http-signature 1.2.0

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## 1.75 blob 0.0.4

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# 1.76 wrappy 1.0.2

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# 1.77 accepts 1.3.3

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## 1.78 fresh 0.5.2

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# 1.79 json-schema-traverse 0.4.1

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# 1.80 debug 2.2.0

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## 1.82 hoek 2.16.3

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# 1.84 monorepo-symlink-test 0.0.0

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## 1.85 ee-first 1.1.1

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## 1.106 cookie-signature 1.0.6

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# cookie-signature
Sign and unsign cookies.
## Example
```js
var cookie = require('cookie-signature');

```
var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGIIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');
var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
***
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```

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Found in path(s):

\*/opt/cola/permits/1110631391\_1606919057.82/0/cookie-signature-1-0-6-5-tgz/package/Readme.md

### 1.107 once 1.4.0

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# 1.113 json-stringify-safe 5.0.1

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## 1.115 oauth-sign 0.9.0

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### 1.117 dashdash 1.14.1

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## 1.126 jsprim 1.4.1

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### 1.127 isstream 0.1.2

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## 1.128 delayed-stream 1.0.0

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## 1.129 arraybuffer.slice 0.0.6

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```
# How to
""javascript
var sliceBuffer = require('arraybuffer.slice');
var ab = (new Int8Array(5)).buffer;
var sliced = sliceBuffer(ab, 1, 3);
sliced = sliceBuffer(ab, 1);
""
# Licence (MIT)
```

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## 1.130 component-inherit 0.0.3

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## 1.132 object-assign 4.1.0

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## 1.133 bunyan 1.8.1

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## 1.135 debug 2.3.3

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### 1.136 graceful-fs 4.1.11

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*/
```

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# options.js #

A very light-weight in-code option parsers for node.js.

```
## Usage ##
``` js
var Options = require("options");
// Create an Options object
function foo(options) {
    var default_options = {
         foo: "bar"
    };
    // Create an option object with default value
    var opts = new Options(default_options);
    // Merge options
    opts = opts.merge(options);
    // Reset to default value
    opts.reset();
    // Copy selected attributes out
    var seled_att = opts.copy("foo");
    // Read json options from a file.
    opts.read("options.file"); // Sync
    opts.read("options.file", function(err){ // Async
         if(err){ // If error occurs
              console.log("File error.");
         }else{
              // No error
         }
    });
    // Attributes defined or not
    opts.isDefinedAndNonNull("foobar");
    opts.isDefined("foobar");
}
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### 1.147 minimatch 3.0.4

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### 1.148 socket.io-adapter 0.5.0

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# 1.153 jsonwebtoken 7.4.3

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# 1.157 source-map 0.5.7

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## 1.160 setprototypeof 1.1.1

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- \* /opt/cola/permits/1110639655\_1606843085.09/0/ws-1-1-5-2-tgz/package/lib/Receiver.hixie.js

## 1.162 performance-now 2.1.0

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## 1.163 topo 1.1.0

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# 1.165 engine.io 1.8.5

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### 1.171 utf-8-validate 1.2.1

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```
/*!

* UTF-8 validate: UTF-8 validation for WebSockets.

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# 1.172 dns-prefetch-control 0.1.0

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### 1.184 verror 1.10.0

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## 1.193 inflight 1.0.6

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### 1.200 sax 1.2.4

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## 1.203 compression 1.6.2

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## 1.206 js-base64 2.5.1

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# 1.231 winston-transport 4.4.0

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# 1.239 graphql 0.13.2

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# 1.241 iterall 1.2.2

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# 1.253 json3 3.3.2

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# JSON 3 #

![JSON 3 Logo](https://bestiejs.github.io/json3/page/logo.png)

[![Build Status](https://api.travis-ci.org/bestiejs/json3.png?branch=gh-pages)](https://travis-ci.org/bestiejs/json3)

\*\*JSON 3\*\* is a modern JSON implementation compatible with a variety of JavaScript platforms. The current version is \*\*3.3.2\*\*.

- [Development Version](http://cdnjs.cloudflare.com/ajax/libs/json3/3.3.2/json3.js) \*(43 KB; uncompressed with comments)\*
- [Production Version](http://cdnjs.cloudflare.com/ajax/libs/json3/3.3.2/json3.min.js) \*(3.5 KB; compressed and `gzip`-ped)\*
- [Change Log](https://bestiejs.github.io/json3/changes.html)

Special thanks to [cdnjs](http://cdnjs.com/libraries/json3/) and [jsDelivr](http://www.jsdelivr.com/#!json3) for hosting CDN copies of JSON 3.

[JSON](http://json.org/) is a language-independent data interchange format based on a loose subset of the JavaScript grammar. Originally popularized by [Douglas Crockford](http://www.crockford.com/), the format was standardized in the [fifth edition](http://es5.github.io/) of the ECMAScript specification. The 5.1 edition, ratified in June 2011, incorporates several modifications to the grammar pertaining to the serialization of dates.

JSON 3 exposes two functions: `stringify()` for

[serializing](https://developer.mozilla.org/en/JavaScript/Reference/Global\_Objects/JSON/stringify) a JavaScript value to JSON, and `parse()` for

[producing](https://developer.mozilla.org/en/JavaScript/Reference/Global\_Objects/JSON/parse) a JavaScript value from a JSON source string. It is a \*\*drop-in replacement\*\* for [JSON 2](http://json.org/js). The functions behave exactly as described in the ECMAScript spec, \*\*except\*\* for the date serialization discrepancy noted below.

The JSON 3 parser does \*\*not\*\* use `eval` or regular expressions. This provides security and performance benefits in obsolete and mobile environments, where the margin is particularly significant. The complete [benchmark suite](http://jsperf.com/json3) is available on [jsPerf](http://jsperf.com/).

The project is [hosted on GitHub](http://git.io/json3), along with the [unit tests](http://bestiejs.github.io/json3/test/test\_browser.html). It is part of the [BestieJS](https://github.com/bestiejs) family, a collection of best-in-class JavaScript libraries that promote cross-platform support, specification precedents, unit testing, and plenty of documentation.

# Changes from JSON 2 #

#### JSON 3

- \* Correctly serializes primitive wrapper objects.
- \* Throws a `TypeError` when serializing cyclic structures (JSON 2 recurses until the call stack overflows).
- \* Utilizes \*\*feature tests\*\* to detect broken or incomplete \*native\* JSON implementations (JSON 2 only checks for the presence of the native functions). The tests are only executed once at runtime, so there is no additional performance cost when parsing or serializing values.
- \*\*As of v3.2.3\*\*, JSON 3 is compatible with [Prototype](http://prototypejs.org) 1.6.1 and older.

In contrast to JSON 2, JSON 3 \*\*does not\*\*

- \* Add `toJSON()` methods to the `Boolean`, `Number`, and `String` prototypes. These are not part of any standard, and are made redundant by the design of the `stringify()` implementation.
- \* Add `toJSON()` or `toISOString()` methods to `Date.prototype`. See the note about date serialization below.

\*\*JSON 3 deviates from the specification in one important way\*\*: it does not define `Date#toISOString()` or `Date#toJSON()`. This preserves CommonJS compatibility and avoids polluting native prototypes. Instead, date serialization is performed internally by the `stringify()` implementation: if a date object does not define a custom `toJSON()` method, it is serialized as a [simplified ISO 8601 date-time string](http://es5.github.com/#x15.9.1.15).

\*\*Several native `Date#toJSON()` implementations produce date time strings that do \*not\* conform to the grammar outlined in the spec\*\*. For instance, all versions of Safari 4, as well as JSON 2, fail to serialize extended years correctly. Furthermore, JSON 2 and older implementations omit the milliseconds from the date-time string (optional in ES 5, but required in 5.1). Finally, in all versions of Safari 4 and 5, serializing an invalid date will produce the string `"Invalid Date"`, rather than `null`. Because these environments exhibit other serialization bugs, however, JSON 3 will override the native `stringify()` implementation.

Portions of the date serialization code are adapted from the [`date-shim`](https://github.com/Yaffle/date-shim) project.

\*\*When used in a web browser\*\*, JSON 3 exposes an additional `JSON3` object containing the `noConflict()` and `runInContext()` functions, as well as aliases to the `stringify()` and `parse()` functions.

### `noConflict` and `runInContext`

- \* `JSON3.noConflict()` restores the original value of the global `JSON` object and returns a reference to the `JSON3` object.
- \* `JSON3.runInContext([context, exports])` initializes JSON 3 using the given `context` object (e.g., `window`, `global`, etc.), or the global object if omitted. If an `exports` object is specified, the `stringify()`, `parse()`, and `runInContext()` functions will be attached to it instead of a new object.

### Asynchronous Module Loaders

JSON 3 is defined as an [anonymous module](https://github.com/amdjs/amdjs-api/wiki/AMD#define-function-) for

compatibility with [RequireJS](http://requirejs.org/), [`curl.js`](https://github.com/cujojs/curl), and other asynchronous module loaders.

```
<script src="//cdnjs.cloudflare.com/ajax/libs/require.js/2.1.10/require.js"></script>
<script>
require({
   "paths": {
      "json3": "./path/to/json3"
    }
}, ["json3"], function (JSON) {
    JSON.parse("[1, 2, 3]");
    // => [1, 2, 3]
});
</script>
```

To avoid issues with third-party scripts, \*\*JSON 3 is exported to the global scope even when used with a module loader\*\*. If this behavior is undesired, `JSON3.noConflict()` can be used to restore the global `JSON` object to its original value.

\*\*Note:\*\* If you intend to use JSON3 alongside another module, \*\*please do not simply concatenate these modules together\*\*, as that would cause multiple `define` calls in one script, resulting in errors in AMD loaders. The `r.js` build optimizer can be used instead if you need a single compressed file for production.

## CommonJS Environments

```
var\ JSON3 = require("./path/to/json3"); \\ JSON3.parse("[1, 2, 3]"); \\ // => [1, 2, 3] \\ \# \ JavaScript\ Engines \\ \\ load("path/to/json3.js"); \\ JSON.stringify({"Hello": 123, "Good-bye": 456}, ["Hello"], "\t"); \\ // => '{\n\t"Hello": 123\n}' \\ \# \ Compatibility\ \#
```

JSON 3 has been \*\*tested\*\* with the following web browsers, CommonJS environments, and JavaScript engines.

## Web Browsers

- $Windows \ [Internet \ Explorer] (http://windows.microsoft.com/en-us/internet-explorer/download-ie), \ version \ 6.0 \ and \ higher$
- Google [Chrome](http://www.google.com/chrome), version 19.0 and higher
- Mozilla [Firefox](https://www.mozilla.org/en-US/firefox/new/), version 2.0 and higher
- Apple [Safari](http://www.apple.com/safari/), version 3.0 and higher
- [Opera](http://www.opera.com/) 8.54 and higher
- [SeaMonkey](http://www.seamonkey-project.org/) 1.0 and higher

#### ## CommonJS Environments

- [Node](http://nodejs.org/) 0.6.21 and higher
- [io.js](https://iojs.org/) 1.0.3 and higher
- [RingoJS](http://ringojs.org/) 0.9 and higher
- [Narwhal](https://github.com/280north/narwhal) 0.3.2

#### ## JavaScript Engines

- Mozilla [Rhino](https://developer.mozilla.org/en-US/docs/Mozilla/Projects/Rhino) 1.7R3 and higher
- WebKit [JSC](https://trac.webkit.org/wiki/JSC)
- Google [V8](http://code.google.com/p/v8/)

#### ## Known Incompatibilities

\* Attempting to serialize the `arguments` object may produce inconsistent results across environments due to specification version differences. As a workaround, please convert the `arguments` object to an array first: `JSON.stringify([].slice.call(arguments, 0))`.

#### ## Required Native Methods

JSON 3 assumes that the following methods exist and function as described in the ECMAScript specification:

- The `Number`, `String`, `Array`, `Object`, `Date`, `SyntaxError`, and `TypeError` constructors.
- `String.fromCharCode`
- `Object#toString`
- `Object#hasOwnProperty`
- `Function#call`
- `Math.floor`
- `Number#toString`
- `Date#valueOf`
- -`String.prototype`: `indexOf`, `charCodeAt`, `charAt`, `slice`, `replace`.
- `Array.prototype`: `push`, `pop`, `join`.

#### # Contribute #

Check out a working copy of the JSON 3 source code with [Git](http://git-scm.com/):

```
$ git clone git://github.com/bestiejs/json3.git
$ cd json3
```

We ♥ bug reports, suggestions, questions, and pull requests! Please see our [contribution guidelines](https://bestiejs.github.io/json3/contribute.html) if you'd like to contribute.

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- \* JSONSchema Validator Validates JavaScript objects using JSON Schemas
- \* (http://www.json.com/json-schema-proposal/)

\*

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To use the validator call the validate function with an instance object and an optional schema object. If a schema is provided, it will be used to validate. If the instance object refers to a schema (self-validating), that schema will be used to validate and the schema parameter is not necessary (if both exist, both validations will occur).

The validate method will return an array of validation errors. If there are no errors, then an empty list will be returned. A validation error will have two properties:

"property" which indicates which property had the error

"message" which indicates what the error was

\*/

#### Found in path(s):

 $*/opt/cola/permits/1173677558\_1623725378.39/0/kriszyp-json-schema-v0-2-3-0-g07ae2c6-1-tar-gz/kriszyp-json-schema-07ae2c6/lib/validate.js$ 

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# 1.293 psl 1.1.31

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# 1.303 string\_decoder 0.10.31

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\*/opt/cola/permits/1238609223\_1638977607.74/0/safe-json-stringify-1-2-0-tgz/package/README.md

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# 1.346 ncp-node 1.0.0

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```
/*!
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A port of jQuery.extend that **actually works** on node.js
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## Description
None of the existing ones on npm really work therefore I ported it myself.
## Usage
To install this module in your current working directory (which should already contain a package.json), run
npm install node.extend
You can additionally just list the module in your [package.json](https://npmjs.org/doc/json.html) and run npm
install.
Then, require this package where you need it:
```

```
var extend = require('node.extend');
The syntax for merging two objects is as follows:
var destObject = extend({ }, sourceObject);
// Where sourceObject is the object whose properties will be copied into another.
// NOTE: In this situation, this is not a deep merge. See below on how to handle a deep merge.
For information about how the clone works internally, view source in lib/extend.js or checkout the doc from
[jQuery][]
### A Note About Deep Merge (avoiding pass-by-reference cloning)
In order to force a deep merge, when extending an object, you must pass boolean true as the first argument to
extend:
var destObject = extend(true, {}, sourceObject);
// Where sourceObject is the object whose properties will be copied into another.
See [this article](http://www.jon-carlos.com/2013/is-javascript-call-by-value-or-call-by-reference/) for more
information about the need for deep merges in JavaScript.
## Credit
- Jordan Harband [@ljharb][]
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[jQuery]: http://api.jquery.com/jQuery.extend/
```

Found in path(s):

\*/opt/cola/permits/1258420743\_1643071968.41/0/node-extend-2-0-0-tgz/package/Readme.md

# 1.357 less-middleware 2.2.1

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# 1.359 graphql-fields-list 2.1.1

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# 1.362 jws 3.2.1

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# 1.366 graphql-anywhere 4.1.10

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#### Found in path(s):

\* /opt/cola/permits/1258420693\_1643072049.73/0/apollo-server-express-1-3-6-tgz/package/src/apolloServerHttp.test.ts

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```
{
name: 'npm',
publishConfig: {
 'proprietary-attribs': false,
},
description: 'A package manager for node',
keywords: [
 'package manager',
 'modules',
 'install',
 'package.json',
],
version: '1.1.22',
preferGlobal: true,
config: {
 publishtest: false,
},
homepage: 'http://npmjs.org/',
author: 'Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me)',
repository: {
 type: 'git',
 url: 'https://github.com/isaacs/npm',
},
bugs: {
 email: 'npm-@googlegroups.com',
 url: 'http://github.com/isaacs/npm/issues',
},
directories: {
 doc: './doc',
 man: './man',
 lib: './lib',
 bin: './bin',
},
main: './lib/npm.js',
bin: './bin/npm-cli.js',
dependencies: {
 semver: '~1.0.14',
 ini: '1',
 slide: '1',
 abbrev: '1',
 'graceful-fs': '~1.1.1',
 minimatch: '~0.2',
 nopt: '1',
 'node-uuid': '~1.3',
 'proto-list': '1',
 rimraf: '2',
```

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 which: '1',
 tar: '~0.1.12',
 fstream: '~0.1.17',
 'block-stream': '*',
 inherits: '1',
 mkdirp: '0.3',
 read: '0',
 'lru-cache': '1',
 'node-gyp': '~0.4.1',
 'fstream-npm': '0 >=0.0.5',
 'uid-number': '0',
 archy: '0',
 chownr: '0',
},
bundleDependencies: [
 'slide',
 'ini',
 'semver',
 'abbrev',
 'graceful-fs',
 'minimatch',
 'nopt',
 'node-uuid',
 'rimraf',
 'request',
 'proto-list',
 'which',
 'tar',
 'fstream',
 'block-stream',
 'inherits',
 'mkdirp',
 'read',
 'lru-cache',
 'node-gyp',
 'fstream-npm',
 'uid-number',
 'archy',
 'chownr',
],
devDependencies: {
 ronn: 'https://github.com/isaacs/ronnjs/tarball/master',
},
engines: {
 node: 0.6 \parallel 0.7 \parallel 0.8,
 npm: '1',
},
```

```
scripts: {
  test: 'node ./test/run.js',
  prepublish: 'npm prune; rm -rf node_modules/*/{test,example,bench}*; make -j4 doc',
  dumpconf: 'env | grep npm | sort | uniq',
},
licenses: [
  {
    type: 'MIT +no-false-attribs',
    url: 'http://github.com/isaacs/npm/raw/master/LICENSE',
  },
},
```

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# 1.387 expose-gc 1.0.0

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