



## Open Source Used In BPA 2.1

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**In your requests please include the following reference number 78EE117C99-193407961**

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## 1.79 zone.js 0.8.18

1.79.1 Available under license

# 1.1 amqplib 0.5.1

## 1.1.1 Available under license :

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# 1.2 angular 6.0.9

## 1.2.1 Available under license :

@title  
@description  
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    "name": "Miko Hevery",
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    "twitter": "mhevery",
    "website": "http://misko.hevery.com",
    "bio": "Miko Hevery is the creator of AngularJS framework. He has passion for making complex things simple. He currently works at Google, but has previously worked at Adobe, Sun Microsystems, Intel, and Xerox, where he became an expert in building web applications in web related technologies such as Java, JavaScript, Flex and ActionScript.",
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    "website": "https://google.com/+IgorMinar",
    "bio": "Igor is a software engineer at Google. He is a lead on the Angular project, practitioner of test driven development, open source enthusiast, hacker. In his free time, Igor enjoys spending time with his wife and two kids, doing outdoor activities (including but not limited to sports, gardening and building retaining walls).",
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  "picture": "naomi.jpg",
  "twitter": "naomitraveller",
  "website": "http://google.com/+NaomiBlack",
  "bio": "Naomi is Angular's TPM generalist and jack-of-all-trades. She supports Angular's internal Google users and solves hard-to-define problems. She's been at Google since 2006, as a technical program manager on projects ranging from Accessibility to Google Transit. She fights daleks in her spare time.",
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  "twitter": "bradlygreen",
  "website": "https://plus.google.com/+BradGreen",
  "bio": "Brad Green works at Google as an engineering director. Brad manages the Google Sales Platform suite of projects as well as the AngularJS framework. Prior to Google, Brad worked on the early mobile web at AvantGo, founded and sold startups, and spent a few hard years toiling as a caterer. Brad's first job out of school was as lackey to Steve Jobs at NeXT Computer writing demo software and designing his slide presentations. Brad enjoys throwing dinner parties with his wife Heather and putting on plays with his children.",
  "group": "Angular"
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  "picture": "juleskremer.jpg",
  "twitter": "jules_kremer",
  "website": "https://plus.google.com/+JulesKremer",
  "bio": "Jules is Head of Angular Developer Relations at Google. When not working with developers, Jules is often bending into pretzel-like shapes, creating paths through thick jungle with a machete or drinking really awesome beer.",
  "group": "Angular"
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  "website": "https://plus.google.com/+JeremyElbourn/",
  "bio": "Angular Material Team Lead. FE Engineer @ Google specializing in AngularJS, component design, and the cleanest of code.",
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"twitter": "petebd",
"website": "http://www.bacondarwin.com",
"bio": "AngularJS for JS Team Lead. Pete has been working on the core team since 2012 and became the team lead for the AngularJS for JS branch in November 2014. He has co-authored a book on AngularJS and regularly talks about and teaches Angular.",
"group": "Angular"
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  "name": "Stephen Fluin",
  "picture": "stephenfluin.jpg",
  "twitter": "stephenfluin",
  "website": "https://plus.google.com/+stephenfluin",
  "bio": "Stephen is a Developer Advocate working on the Angular team. Before joining Google, he was a Google Expert. Stephen loves to help enterprises use technology more effectively.",
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"robwormald": {
  "name": "Rob Wormald",
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  "twitter": "robwormald",
  "website": "http://github.com/robwormald",
  "bio": "Rob is a Developer Advocate on the Angular team at Google. He's the Angular team's resident reactive programming geek and founded the Reactive Extensions for Angular project, ngrx.",
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  "picture": "tobias.jpg",
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  "website": "https://plus.google.com/+TobiasBosch",
  "bio": "Tobias Bosch is a software engineer at Google. He is part of the Angular core team and works on Angular.",
  "group": "Angular"
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  "name": "Rado Kirov",
  "picture": "rado.jpg",
  "twitter": "radokirov",
  "website": "https://plus.sandbox.google.com/+RadoslavKirov",
  "bio": "Rado has been on the Angular Core team since Summer 2014. Before Angular, he worked on the AdSense serving stack, responsible for serving billions of ads daily. Being passionate about open source, he made contributions to Angular as a Google-20% project, before making the fulltime jump. He is a recovering academic; ask him about error-correcting codes from algebraic curves (or don't).",
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"alexeagle": {
  "name": "Alex Eagle",
  "picture": "alex-eagle.jpg",
  "twitter": "jakeherringbone",
  "website": "http://google.com/+alexeagle",
  "bio": "Alex works on language tooling for JavaScript and TypeScript. Previously Alex spent five years in Google's developer testing tools. He has developed systems including Google's continuous integration service, capturing build&test failures, and explaining them to developers. Before Google, Alex worked at startups including Opower, and consulted for large government IT. In his 20% time, he created the Error-Prone static analysis tool, which detects common Java programming mistakes and reports them as compile errors.",
  "group": "Angular"
},

"martinprobst": {
  "name": "Martin Probst",
  "picture": "martin-probst.jpg",
  "twitter": "martin_probst",
  "website": "http://probst.io",
  "bio": "Martin is a software engineer at Google in the AngularJS team. He holds a MSc in Software Engineering from HPI in Potsdam, Germany. Before joining the AngularJS team at Google, he worked at a database startup in the Netherlands, at EMC, at SAP, and as a freelancer. In his free time, he likes to cook and sail, not necessarily at the same time.",
  "group": "Angular"
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"julieralph": {
  "name": "Julie Ralph",
  "picture": "julie-ralph.jpg",
  "twitter": "SomeJulie",
  "website": "https://plus.google.com/+JulieRalph",
  "bio": "Julie Ralph works as a Software Engineer in Test at Google in Seattle and is the lead developer on the Angular end-to-end testing framework Protractor.",
  "group": "Angular"
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"alexrickabaugh": {
  "name": "Alex Rickabaugh",
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  "twitter": "synalx",
  "website": "https://plus.google.com/+AlexRickabaugh/about",
  "bio": "Core team member working to optimize the Angular platform for the next generation of applications, including mobile. Before joining the Angular team, Alex worked in the Google sales organization where he helped build the first large Angular application within Google.",
  "group": "Angular"
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  "picture": "matias.jpg",
  "twitter": "yearofmoo",
  "website": "http://yearofmoo.com",
  "bio": "Matias Niemela is a fullstack web developer who has been programming & building websites for over 10 years, and a core team member of AngularJS for two years. In the spring of 2015 Matias joined Angular full time at Google. In his free time Matias loves to build complex things and is always up for public speaking, travelling and tweaking his current Vim setup.",
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  "name": "Hans Larsen",
  "picture": "hansl.jpg",
  "twitter": "hanslatwork",
  "website": "http://www.codingatwork.com/",
  "bio": "Hans is a software engineer at Google on the Angular team and was previously at Slack. He works everyday to help make it easier for everyone to create beautiful, consistent web applications using Angular, using Material Design components and the CLI tool.",
  "group": "Angular"
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  "name": "Kara Erickson",
  "picture": "kara-erickson.jpg",
  "twitter": "karaforthewin",
  "website": "https://github.com/kara",
  "bio": "Kara is a software engineer on the Angular team at Google and a co-organizer of the Angular-SF Meetup. Prior to Google, she helped build UI components in Angular for guest management systems at OpenTable. She enjoys snacking indiscriminately and probably other things too.",
  "group": "Angular"
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  "name": "Chuck Jazdzewski",
  "picture": "chuckj.jpg",
  "twitter": "chuckjaz",
  "website": "http://removingalldoubt.com",
  "bio": "Chuck is a Software Engineer on the Angular team at Google. He is a programming language geek, UI framework and component library veteran, and has a passion for simplifying the task of programming. Before Google, he worked at Microsoft and Borland.",
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"vikram": {
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  "picture": "vikram.jpg",
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"twitter": "vikerman",
"bio": "Vikram is a Software Engineer on the Angular team focused on Engineering Productivity. That means he makes sure people on the team can move fast and not break things. Vikram enjoys doing Yoga and going on walks with his daughter.",
"group": "Angular"
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  "picture": "max-sills.jpg",
  "twitter": "angularjs",
  "website": "http://google-opensource.blogspot.com/",
  "bio": "Max Sills is Angular's Open Source lawyer.",
  "group": "Angular"
},
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"pawel": {
  "name": "Pawel Kozlowski",
  "picture": "pawel.jpg",
  "twitter": "pkozlowski_os",
  "bio": "Open source hacker, AngularJS book author, AngularUI lead developer. Pawel is an software-development addict who believes in free, open source software. He is a core contributor to the AngularJS framework, AngularUI, Karma-runner and several other projects. He is the co-author of the \"Mastering Web Application Development with AngularJS\" book. When not coding, Pawel can be spotted speaking at various software development conferences.",
  "group": "Angular"
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"paulgschwendtner": {
  "name": "Paul Gschwendtner",
  "picture": "devversion.jpg",
  "twitter": "DevVersion",
  "website": "https://github.com/DevVersion",
  "bio": "Paul is a 17-year-old developer living in Germany. While he attends school, Paul works as a core team member on Angular Material. Paul focuses on tooling and building components for Angular.",
  "group": "Angular"
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"elad": {
  "name": "Elad Bezael",
  "picture": "eladbezael.jpg",
  "website": "https://github.com/EladBezael",
  "bio": "Elad is a fullstack developer with a very strong love for design. Since 8 years old, he's been designing in Photoshop and later on fell in love with programing. This strong bond between design and computer programming gave birth to a new kind of love. And he is currently doing the combination of both, as a core member of the ngMaterial project.",
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"marclaval": {
  "name": "Marc Laval",
  "picture": "marclaval.jpg",
  "twitter": "marclaval",
  "website": "https://github.com/mlaval",
  "bio": "Marc is a manager at Amadeus where he leads the team in charge of developing and recommending UI frameworks for the company. He is also an open source developer and a contributor to Angular.",
  "group": "Angular"
},

"wardbell": {
  "name": "Ward Bell",
  "picture": "wardbell.jpg",
  "website": "https://github.com/wardbell",
  "twitter": "wardbell",
  "bio": "Ward is an all-around developer with JavaScript, Node.js, and .net chops. He's a frequent conference speaker and podcaster, trainer, Google Developer Expert for Angular, Microsoft MVP, and PluralSight author. He is also president of IdeaBlade, an enterprise software consulting firm and the makers of breeze.js. He would like to get more sleep and spend more time in the mountains.",
  "group": "Angular"
},

"martinstaffa": {
  "name": "Martin Staffa",
  "picture": "martinstaffa.jpg",
  "twitter": "Narretz",
  "bio": "Martin is an English major turned web developer who loves frontend stuff. He's been part of the AngularJS team since 2014. If you can't find him roaming the Github issue queues, he's probably out with his camera somewhere.",
  "group": "Angular"
},

"filipesilva": {
  "name": "Filipe Silva",
  "picture": "filipe-silva.jpg",
  "twitter": "filipematossilv",
  "website": "http://github.com/filipesilva",
  "bio": "Filipe is a passion-driven developer that always strives for the most elegant solution for each problem. He is currently an author for Angular.io, a core contributor for Angular-CLI and senior front end engineer at KonnectAgain. When not busy going through PRs, you can find him scouring reddit for new dinner recipes to cook or enjoying a craft beer in Dublin.",
  "group": "Angular"
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"andrewseguin": {
  "name": "Andrew Seguin",
  "picture": "andrewseguin.jpg",
  "website": "http://github.com/andrewseguin",

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"bio": "Andrew is an engineer on the Angular Material team working on bringing material components to the world. When hes not obsessing over pixels and design, he is probably off somewhere having adventures with his wife and daughters.",
"group": "Angular"
},

"jesusrodriguez": {
"name": "Jess Rodrguez",
"picture": "jesus-rodriguez.jpg",
"twitter": "foxandxss",
"website": "http://angular-tips.com",
"bio": "Jesus is an open source lover, a book author and editor, and AngularUI lead developer. He is currently a core contributor to the UI Bootstrap project.",
"group": "Angular"
},

"crisbeto": {
"name": "Kristiyan Kostadinov",
"picture": "crisbeto.jpg",
"website": "http://crisbeto.com/",
"bio": "Kristiyan is a front-end developer, passionate open-source contributor and a core team member on Angular Material.",
"group": "Angular"
},

"gkalpak": {
"name": "Georgios Kalpakas",
"picture": "gkalpak.jpg",
"twitter": "gkalpakas",
"website": "https://github.com/gkalpak",
"bio": "George is a Software Engineer with a passion for chess, robotics and automating stuff. He has a strong need to know how things work (so if you already know, he'd love to have a talk with you). He has been a member of the AngularJS team since 2014. When not doing geeky stuff, he is probably trying to convince his wife and kids to apply programming principles in real life. (Or is it the other way around?)",
"group": "Angular"
},

"mmalerba": {
"name": "Miles Malerba",
"picture": "mmalerba.jpg",
"bio": "Miles is a software engineer on the Angular Material team at Google. In addition to Javascripting he enjoys eating food and ogling cute puppies.",
"group": "Angular"
},

"jasonaden": {
"name": "Jason Aden",
"picture": "jasonaden.jpg",
"bio": "Jason is a software engineer at Google on the Angular Core team. He is enthusiastic about Angular and

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application development in the modern age. In his free time Jason enjoys spending time with his wife and four children and doing outdoor activities (hiking, fishing, snowboarding, etc.).",

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  "website": "https://medium.com/@jeffwhelpley",  
  "bio": "Jeff Whelpley is a Google Developer Expert and the CTO of GetHuman. He is the co-organizer of the Angular Boston meetup group, co-creator of Angular Universal, former host of AngularAir and frequent speaker at Angular events.",  
  "group": "GDE"  
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  "website": "https://twitter.com/PascalPrecht",  
  "bio": "Pascal is a software engineer, author and Google Developer Expert for the Angular team. He loves contributing to open source and is the creator of the popular angular-translate module. In his spare time hes fiddling with EDM production.",  
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  "website": "http://blogs.msmvps.com/deborahk/",  
  "bio": "Deborah is a software developer, author, and Google Developer Expert. She is author of several Pluralsight courses including: 'Angular 2: Getting Started' and Angular Routing",  
  "group": "GDE"  
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  "twitter": "alyssanicoll",  
  "website": "alyssa.io",  
  "bio": "I am an energetic, ber passionate GDE and Web Dev. I have some Front-End and Angular courses on Egghead.io and Code School. I love to learn new things and share them with others. I Scuba Dive and have a toothless dog named 'Gummy'. My DM is always open, come talk sometime.",  
  "group": "GDE"  
},
```

```
"ralph": {
```

```
"name": "Ralph Wang",
"picture": "ralph.jpg",
"twitter": "ralph_wang_gde",
"bio": "Ralph(Zhicheng Wang) is a senior consultant at ThoughtWorks and also a GDE. He is a technology enthusiast and he is a passionate advocate of 'Simplicity, Professionalism and Sharing'. In his eighteen years of R&D career, he worked as tester, R&D engineer, project manager, product manager and CTO. He is immersed in the excitement of the arrival of the baby.",
"group": "GDE"
},
```

```
"wassim": {
  "name": "Wassim Chegham",
  "picture": "wassim.jpg",
  "twitter": "manekinekko",
  "website": "https://medium.com/@wassimchegham",
  "bio": "Wassim (aka manekinekko on Twitter/Github) is a Developer Advocate at SFEIR, in Web technologies (Angular, Polymer, PWA, Web Components...). He is also a Developer Expert in Web technologies nominated by Google. He enjoys writing technical articles, meeting developers at events, speaking at conferences and contributing to open source projects. Wassim loves the Web Platform and works hard to move it forward.",
  "group": "GDE"
},
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```
"chrisnoring": {
  "name": "Christoffer Noring",
  "picture": "chrisnoring.jpg",
  "twitter": "chris_noring",
  "website": "softchris.github.io",
  "bio": "Chris is a Full Stack Developer at McKinsey. A Google Developer Expert in Web Technologies and Angular. He is also a Nativescript Developer Expert. He is one of the organizers of the Angular conference ngVikings and an author of the book RxJS 5 Ultimate",
  "group": "GDE"
},
```

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"jorgeucano": {
  "name": "Jorge Cano",
  "picture": "jorgeucano.jpg",
  "twitter": "jorgeucano",
  "website": "https://medium.com/@jorgeucano",
  "bio": "Jorge is a Full Stack Developer in ByteDefault, a professor for several courses related to JavaScript, a speaker, and an author of technical articles and the book \"Entendiendo Angular.\" He is a Google Developer Expert in web technologies (nominated by Google) and a NativeScript Developer Expert (nominated by Telerik).",
  "group": "GDE"
},
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"toddmotto": {
  "name": "Todd Motto",
  "picture": "toddmotto.jpg",
  "twitter": "toddmotto",
}
```



```

"website": "https://ultimateangular.com",
"bio": "Owner and trainer at Ultimate Angular. Lives in England, UK. Has a love for teaching, OSS and speaking at conferences. Google Developer Expert for Web Technologies and Angular.",
"group": "GDE"
},

"michaelprentice": {
"name": "Michael Prentice",
"picture": "michaelprentice.jpg",
"twitter": "splaktar",
"website": "https://www.DevIntent.com",
"bio": "Lead for AngularJS Material. Owner and consultant at DevIntent. Ex-Angular GDE. Founder of the Google Developers Group (GDG) community on the Space Coast of Florida, USA.",
"group": "Angular"
},

"mikebrocchi": {
"name": "Mike Brocchi",
"picture": "mike-brocchi.jpg",
"twitter": "brocco",
"bio": "Mike is a core team member of the Angular CLI team, a GDE and is also an instructor at egghead. Mike is passionate about helping others by writing code as well as teaching.",
"group": "Angular"
},

"manfredsteyer": {
"name": "Manfred Steyer",
"picture": "steyer.jpg",
"twitter": "ManfredSteyer",
"website": "https://www.softwarearchitekt.at",
"bio": "Trainer and Consultant with focus on Angular. Writes for O'Reilly, the German Java Magazine and Heise. Regularly speaks at conferences.",
"group": "GDE"
},

"maximalsalnikov": {
"name": "Maxim Salnikov",
"picture": "maximalsalnikov.jpg",
"twitter": "webmaxru",
"website": "https://medium.com/@webmaxru",
"bio": "Oslo-based web front-end engineer, a Google Developer Expert in Angular, Web technologies and IoT. Active public speaker & trainer for the developer events. Leader of Norways largest meetups dedicated to web front-end and mobile development. Founder of ngVikings and Mobile Era conferences. Progressive Web Apps advocate.",
"group": "GDE"
},

"jeremywilken": {
"name": "Jeremy Wilken",

```

```

"picture": "jeremywilken.jpg",
"twitter": "gnomeontherun",
"website": "https://gnomeontherun.com",
"bio": "Based in Austin Texas, Jeremy is an application architect and homebrewer. He is a Google Developer Expert in Web Technologies and Angular, with a focus on speaking and training and author of Angular in Action and Ionic in Action.",
"group": "GDE"
},

"minko": {
"name": "Minko Gechev",
"picture": "minko.jpg",
"twitter": "mgechev",
"website": "http://blog.mgechev.com",
"bio": "Software engineer who enjoys theoretical computer science and its practical applications. Author of the books 'Switching to Angular 2' and 'Getting Started with Angular', speaker and blogger. Working on tooling for Angular and TypeScript.",
"group": "GDE"
},

"uri": {
"name": "Uri Shaked",
"picture": "urish.jpg",
"twitter": "UriShaked",
"website": "https://urish.org",
"bio": "Uri Shaked is a Google Developer Expert for Web Technologies. He regularly writes about Web and IoT related technologies in his medium blog, and speaks about these topics in conferences and meetup around the world. Among his interests are reverse engineering, hardware hacking, building 3d-printed robots and games, playing music and Salsa dancing.",
"group": "GDE"
},

"eusoj": {
"name": "Josue Gutierrez",
"picture": "josue.jpg",
"twitter": "eusoj",
"website": "http://techtam.io",
"bio": "Based in Mexico, Josue has been web developer since the last 10 years, he is part of the Google Developer Expert Program, passionate about teaching and building communities",
"group": "GDE"
},

"SanderElias": {
"name": "Sander Elias",
"picture": "sanderelias.jpg",
"twitter": "esoSanderElias",
"website": "https://sanderelias.nl",
"bio": "Sander is a versed developer with over 4 decades of practice under his belt. He is also an Google Developer

```

Expert for web, specializing in Angular. Organizer of meetups and conferences. Helping out others wherever he can. When he is not breathing code, he is fiddling around with IOT, photography, science and anything that might vaguely is gadget-like! Thinks he a master of the grill, but in reality you probably don't get a food-poisoning ;) Also, and actually the most important thing to him, he is a father of 4, and has the most patient girlfriend in the universe.",

```
"group": "GDE"  
},
```

```
"filipbech": {  
  "name": "Filip Bruun Bech-Larsen",  
  "picture": "filipbech.jpg",  
  "twitter": "filipbech",  
  "website": "http://filipbech.github.io/",  
  "bio": "Filip is a Frontend developer from Denmark. He works at IMPACT, delivering large-scale, high-performance e-commerce to international clients - most often build in Angular. He runs the local Angular usergroup - ngAarhus, and gives talks/workshops around and beyond the country of Denmark.",  
  "group": "GDE"  
},
```

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"ocombe": {  
  "name": "Olivier Combe",  
  "picture": "ocombe.jpg",  
  "twitter": "ocombe",  
  "bio": "Olivier is a passionate front-end engineer who loves interacting with the community by doing open source projects (ocLazyLoad, ngx-translate), being a panelist at Angular-Air, giving talks or just chatting on Twitter and Slack. Hes a member of the Angular Core team and works on i18n.",  
  "group": "Angular"  
},
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"cironunes": {  
  "name": "Ciro Nunes",  
  "picture": "cironunes.jpg",  
  "twitter": "cironunesdev",  
  "bio": "Ciro is the Lead Front-end Engineer of CrossEngage and Google Developer Expert in Web Technologies.",  
  "group": "GDE"  
},
```

```
"elecash": {  
  "name": "Ral Jimnez",  
  "picture": "raul.jpg",  
  "twitter": "elecash",  
  "bio": "Raul works as a CEO and Front-end Architect at Byte Default for companies around the world helping them to build high-performance web apps. In his spare time he's usually working on Videogular, involved in local meetups, speaking at conferences and contributing to open source projects.",  
  "group": "GDE"  
},
```

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"simpulton": {  
  "name": "Lukas Ruebbelke",
```

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"picture": "lukas.jpg",
"twitter": "simpulton",
"bio": "Developer. Hacker. Community backer. Author and blogger. Console logger.",
"group": "GDE"
},

"christianweyer": {
"name": "Christian Weyer",
"picture": "christianweyer.jpg",
"twitter": "ChristianWeyer",
"website": "https://www.thinktecture.com",
"bio": "Co-founder and CTO of Thinktecture AG, as well as Google GDE and Microsoft MVP. Since two decades active as an engaged and passionate speaker on several software conferences and events all over the world. Some people call him 'Mr. Cross-Platform'.",
"group": "GDE"
},

"shaireznik": {
"name": "Shai Reznik",
"picture": "shaireznik.jpg",
"twitter": "shai_reznik",
"website": "https://www.hirez.io",
"bio": "Teaches Angular at HiRez.io the most entertaining online courses on the web. An experienced developer, consultant and speaker also known for his unusual crazy Angular talks such as ng-wat, ng-show, ng-rap, etc. Shai is also the organizer of the largest JavaScript group in Israel and a professional Improv performer.",
"group": "GDE"
},

"danwahlin": {
"name": "Dan Wahlin",
"picture": "danwahlin.jpg",
"twitter": "DanWahlin",
"website": "https://codewithdan.com",
"bio": "Dan Wahlin founded Wahlin Consulting which provides consulting and onsite/online training services on Web technologies such as JavaScript, Angular, TypeScript, Node.js, C#, ASP.NET Core, Web API, and Docker. Hes also published many developer courses on Pluralsight.com and Udemy.com. Dan is a Google GDE, Docker Captain, and Microsoft MVP and Regional Director and speaks at conferences and user groups around the world. Dan has written several books on Web technologies, hundreds of technical articles and blog posts (https://blog.codewithdan.com) and runs the 'Code with Dan Web Weekly Newsletter' - a great way to stay up on the latest technologies. Follow Dan on Twitter @DanWahlin.",
"group": "GDE"
},

"joeames": {
"name": "Joe Eames",
"picture": "joeames.jpg",
"twitter": "josepheames",
"website": "https://joeames.me",

```

```
"bio": "Joe Eames is a developer and educator. He publishes course on Angular and JavaScript on Pluralsight.com. He is an organizer of ng-conf, a Google Developer Expert in Angular, gives lots of talks & workshops, and loves all things web.",
"group": "GDE"
},
```

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"willmendesneto": {
  "name": "Wilson Mendes",
  "picture": "willmendesneto.jpg",
  "twitter": "willmendesneto",
  "website": "https://willmendesneto.github.io",
  "bio": "GDE (Google Developer Expert) Angular and Web Technologies, GDG Salvador organizer, passionate about technology and active in communities with a focus on web development, including Angular, JavaScript, HTML5, CSS3, Workflow, web performance, security and Internet of things. Participates in events organization, speaker at conferences in Brazil and other countries and contributes to several open source projects.",
  "group": "GDE"
},
```

```
"jecelynyeen": {
  "name": "Jecelyn Yeen",
  "picture": "jecelynyeen.jpg",
  "twitter": "jecelynyeen",
  "website": "https://developers.google.com/experts/people/jecelyn-yeen",
  "bio": "GDE (Google Developer Expert) Angular and Web Technologies, Women Who Code KL Director, Jecelyn specializes in professional application development with technologies, including Angular, HTML5, Typescript, JavaScript, CSS, C#, NodeJs, Cloud and ASP.NET.",
  "group": "GDE"
},
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"vincirufus": {
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  "picture": "vincirufus.jpg",
  "twitter": "areai51",
  "website": "https://developers.google.com/experts/people/vinci-rufus",
  "bio": "Director of Experience Technology at SapientRazorfish. Consults various brands on their frontend and mobile web architecture. A speaker at various forums and mentor at Launchpad Accelerator and ngGirls India. Spends free time playing with Angular, Preact, web-components ",
  "group": "GDE"
},
```

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"thierrychatel": {
  "name": "Thierry Chatel",
  "picture": "thierrychatel.jpg",
  "twitter": "ThierryChatel",
  "website": "http://www.methotic.com",
  "bio": "Thierry is a senior consultant and trainer, specialized on Angular, and a Google Developer Expert.",
  "group": "GDE"
},
```

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"gerardsans": {
  "name": "Gerard Sans",
  "picture": "gerardsans.jpg",
  "twitter": "gerardsans",
  "website": "https://medium.com/@gerard.sans",
  "bio": "Gerard is very excited about the future of the Web and JavaScript. Always happy Computer Science Engineer and humble Google Developer Expert. He loves to share his learnings by giving talks, trainings and writing about cool technologies. He loves running AngularZone and GraphQL London, mentoring students and giving back to the community.",
  "group": "GDE"
},

"amcdnl": {
  "name": "Austin McDaniel",
  "picture": "amcdnl.jpeg",
  "twitter": "amcdnl",
  "website": "https://amcdnl.com",
  "bio": "Austin is an software architect with a passion for JavaScript and Angular. Austin loves to share his experiences with other like-minded developers by giving talks, blogging, podcasting and open-sourcing.",
  "group": "Angular"
},

"nirkaufman": {
  "name": "Nir Kaufman",
  "picture": "nirkaufman.jpg",
  "twitter": "nirkaufman",
  "website": "http://ngnir.life/",
  "bio": "Nir is a Principal Frontend Consultant & Head of the Angular department at 500Tech, Google Developer Expert and community leader. He organizes the largest Angular meetup group in Israel (Angular-IL), talks and teaches about front-end technologies around the world. He is also the author of two books about Angular and the founder of the 'Frontend Band'.",
  "group": "GDE"
},

"achautard": {
  "name": "Alain Chautard",
  "picture": "alainchautard.png",
  "twitter": "AlainChautard",
  "website": "http://www.angulartraining.com",
  "bio": "Alain Chautard is a Google Developer Expert in Web Technologies / Angular. He started working with Angular JS in 2011. Since then he has worked with all Angular versions on a daily basis, both as a developer and as a technical trainer. He is the organizer of the Sacramento Angular Meetup group, co-organizer of the Google Developer Group chapter in Sacramento, California, and published author of the Packt video course 'Getting Started with Angular'",
  "group": "GDE"
},

```

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"coryrylan": {
  "name": "Cory Rylan",
  "picture": "cory-rylan.jpg",
  "twitter": "coryrylan",
  "website": "https://coryrylan.com",
  "bio": "Cory is a full time front end web developer. He works full time building responsive web applications and progressive web apps. When not building web apps he is busy teaching Angular and other web technologies in workshops and conferences. He loves the web and is optimistic of the places it can take us.",
  "group": "GDE"
},

"mhartington": {
  "name": "Mike Hartington",
  "picture": "mhartington.png",
  "twitter": "mhartington",
  "website": "https://mhartington.io",
  "bio": "Mike is a Developer Advocate for the Ionic Framework and a GDE in Angular. He spends most of his time making fast PWAs and exploring emerging web standards. When not behind a keyboard, you'll probably find him with a guitar and beer.",
  "group": "GDE"
},

"juristr": {
  "name": "Juri Strumpflohner",
  "picture": "juristr.jpg",
  "twitter": "juristr",
  "website": "https://juristr.com",
  "bio": "Juri is a software engineer and freelance trainer and consultant currently mostly focusing on the frontend side using JavaScript, TypeScript and Angular. He has a passion for teaching and sharing his knowledge and experiences with others. This mostly happens by writing tech articles for his personal blog, by creating video courses for Egghead.io, during on-site workshops at companies or by speaking at conferences. In his free time he enjoys practicing Yoseikan Budo, a martial art where he currently owns the 3rd DAN black belt.",
  "group": "GDE"
},

"mashhoodr": {
  "name": "Mashhood Rastgar",
  "picture": "mashhood.jpg",
  "twitter": "mashhoodr",
  "website": "http://imars.info/",
  "bio": "Mashhood is the principal technical consultant at Recurship and a Google Developer Expert. He works with different startups in US and EU to helps them crawl through the technical maze and quickly build amazing products focused around the problems they are trying to solve. He specializes in using the latest web technologies available to execute the best possible solutions.",
  "group": "GDE"
},

"kimmaida": {

```

```

    "name": "Kim Maida",
    "picture": "kimmaida.jpg",
    "twitter": "KimMaida",
    "website": "https://kmaida.io/",
    "bio": "Kim is an an Angular consultant, developer, speaker, writer, and Google Developer Expert. She is
passionate about learning from and sharing knowledge with other developers through blogging, speaking,
workshops, and open source.",
    "group": "GDE"
  },

  "elanaolson": {
    "name": "Elana Olson",
    "picture": "elanaolson.jpg",
    "twitter": "elanathellama",
    "bio": "Elana is a Developer Relations intern on the Angular team at Google. She is working on migration paths
from AngularJS to Angular and would love to chat about your experience with upgrading.",
    "group": "Angular"
  }
}
import { ReflectiveInjector } from '@angular/core';

import { of } from 'rxjs';

import { ContributorGroup } from './contributors.model';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { LocationService } from 'app/shared/location.service';

// Testing the component class behaviors, independent of its template
// Let e2e tests verify how it displays.
describe('ContributorListComponent', () => {

  let component: ContributorListComponent;
  let injector: ReflectiveInjector;
  let contributorService: TestContributorService;
  let locationService: TestLocationService;
  let contributorGroups: ContributorGroup[];

  beforeEach(() => {
    injector = ReflectiveInjector.resolveAndCreate([
      ContributorListComponent,
      { provide: ContributorService, useClass: TestContributorService },
      { provide: LocationService, useClass: TestLocationService }
    ]);

    locationService = injector.get(LocationService);
    contributorService = injector.get(ContributorService);
    contributorGroups = contributorService.testContributors;
  });

```



```

});

it('should select the first group when no query string', () => {
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[0]);
});

it('should select the first group when query string w/o "group" property', () => {
  locationService.searchResult = { foo: 'GDE' };
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[0]);
});

it('should select the first group when query group not found', () => {
  locationService.searchResult = { group: 'foo' };
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[0]);
});

it('should select the GDE group when query group is "GDE"', () => {
  locationService.searchResult = { group: 'GDE' };
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[1]);
});

it('should select the GDE group when query group is "gde" (case insensitive)', () => {
  locationService.searchResult = { group: 'gde' };
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[1]);
});

it('should set the query to the "GDE" group when user selects "GDE"', () => {
  component = getComponent();
  component.selectGroup('GDE');
  expect(locationService.searchResult['group']).toBe('GDE');
});

it('should set the query to the first group when user selects unknown name', () => {
  component = getComponent();
  component.selectGroup('GDE'); // a legit group that isn't the first

  component.selectGroup('foo'); // not a legit group name
  expect(locationService.searchResult['group']).toBe('Angular');
});

//// Test Helpers ////
function getComponent(): ContributorListComponent {
  const comp = injector.get(ContributorListComponent);

```

```

    comp.ngOnInit();
    return comp;
}

interface SearchResult { [index: string]: string; };

class TestLocationService {
  searchResult: SearchResult = {};
  search = jasmine.createSpy('search').and.callFake(() => this.searchResult);
  setSearch = jasmine.createSpy('setSearch')
    .and.callFake((label: string, result: SearchResult) => {
      this.searchResult = result;
    });
}

class TestContributorService {
  testContributors = getTestData();
  contributors = of(this.testContributors);
}

function getTestData(): ContributorGroup[] {
  return [
    // Not interested in the contributors data in these tests
    { name: 'Angular', order: 0, contributors: [] },
    { name: 'GDE', order: 1, contributors: [] },
  ];
}

import { HttpClientTestingModule, HttpTestingController } from '@angular/common/http/testing';
import { Injector } from '@angular/core';
import { TestBed } from '@angular/core/testing';

import { ContributorService } from './contributor.service';
import { ContributorGroup } from './contributors.model';

describe('ContributorService', () => {

  let injector: Injector;
  let contribService: ContributorService;
  let httpMock: HttpTestingController;

  beforeEach(() => {
    injector = TestBed.configureTestingModule({
      imports: [HttpClientTestingModule],
      providers: [
        ContributorService
      ]
    });
  });
}

```

```

    contribService = injector.get<ContributorService>(ContributorService);
    httpMock = injector.get(HttpTestingController);
  });

  afterEach(() => httpMock.verify());

  it('should make a single connection to the server', () => {
    const req = httpMock.expectOne({});
    expect(req.request.url).toBe('generated/contributors.json');
  });

  describe('#contributors', () => {

    let contribs: ContributorGroup[];
    let testData: any;

    beforeEach(() => {
      testData = getTestContribs();
      httpMock.expectOne({}).flush(testData);
      contribService.contributors.subscribe(results => contribs = results);
    });

    it('contributors observable should complete', () => {
      let completed = false;
      contribService.contributors.subscribe(undefined, undefined, () => completed = true);
      expect(true).toBe(true, 'observable completed');
    });

    it('should reshape the contributor json to expected result', () => {
      const groupNames = contribs.map(g => g.name).join(',');
      expect(groupNames).toEqual('Angular,GDE');
    });

    it('should have expected "GDE" contribs in order', () => {
      const gde = contribs[1];
      const actualAngularNames = gde.contributors.map(l => l.name).join(',');
      const expectedAngularNames = [testData.jeffcross, testData.kapunahewong].map(l => l.name).join(',');
      expect(actualAngularNames).toEqual(expectedAngularNames);
    });
  });

  it('should do WHAT(?) if the request fails');
});

function getTestContribs() {
  return {
    kapunahewong: {

```

```

name: 'Kapunahele Wong',
picture: 'kapunahelewong.jpg',
website: 'https://github.com/kapunahelewong',
twitter: 'kapunahele',
bio: 'Kapunahele is a front-end developer and contributor to angular.io',
group: 'GDE'
},
misko: {
name: 'Miko Hevery',
picture: 'misko.jpg',
twitter: 'mhevery',
website: 'http://misko.hevery.com',
bio: 'Miko Hevery is the creator of AngularJS framework.',
group: 'Angular'
},
igor: {
name: 'Igor Minar',
picture: 'igor-minar.jpg',
twitter: 'IgorMinar',
website: 'https://google.com/+IgorMinar',
bio: 'Igor is a software engineer at Angular.',
group: 'Angular'
},
kara: {
name: 'Kara Erickson',
picture: 'kara-erickson.jpg',
twitter: 'karaforthewin',
website: 'https://github.com/kara',
bio: 'Kara is a software engineer on the Angular team at Angular and a co-organizer of the Angular-SF Meetup. ',
group: 'Angular'
},
jeffcross: {
name: 'Jeff Cross',
picture: 'jeff-cross.jpg',
twitter: 'jeffbcross',
website: 'https://twitter.com/jeffbcross',
bio: 'Jeff was one of the earliest core team members on AngularJS.',
group: 'GDE'
},
naomi: {
name: 'Naomi Black',
picture: 'naomi.jpg',
twitter: 'naomitraveller',
website: 'http://google.com/+NaomiBlack',
bio: 'Naomi is Angular\'s TPM generalist and jack-of-all-trades.',
group: 'Angular'
}
};

```

```

}
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';

import { ConnectableObservable, Observable } from 'rxjs';
import { map, publishLast } from 'rxjs/operators';

import { Contributor, ContributorGroup } from './contributors.model';

// TODO(AndrewJWS): Look into changing this so that we don't import the service just to get the const
import { CONTENT_URL_PREFIX } from 'app/documents/document.service';

const contributorsPath = CONTENT_URL_PREFIX + 'contributors.json';
const knownGroups = ['Angular', 'GDE'];

@Injectable()
export class ContributorService {
  contributors: Observable<ContributorGroup[]>;

  constructor(private http: HttpClient) {
    this.contributors = this.getContributors();
  }

  private getContributors() {
    const contributors = this.http.get<{[key: string]: Contributor}>(contributorsPath).pipe(
      // Create group map
      map(contribs => {
        const contribMap: { [name: string]: Contributor[] } = {};
        Object.keys(contribs).forEach(key => {
          const contributor = contribs[key];
          const group = contributor.group;
          const contribGroup = contribMap[group];
          if (contribGroup) {
            contribGroup.push(contributor);
          } else {
            contribMap[group] = [contributor];
          }
        });
      }
    );

    return contribMap;
  },

  // Flatten group map into sorted group array of sorted contributors
  map(cmap => {
    return Object.keys(cmap).map(key => {
      const order = knownGroups.indexOf(key);
      return {
        name: key,

```

```

        order: order === -1 ? knownGroups.length : order,
        contributors: cmap[key].sort(compareContributors)
    } as ContributorGroup;
    })
    .sort(compareGroups);
    }),

    publishLast(),
);

(contributors as ConnectableObservable<ContributorGroup[]>).connect();
return contributors;
}
}

function compareContributors(l: Contributor, r: Contributor) {
return l.name.toUpperCase() > r.name.toUpperCase() ? 1 : -1;
}

function compareGroups(l: ContributorGroup, r: ContributorGroup) {
return l.order === r.order ?
    (l.name > r.name ? 1 : -1) :
    l.order > r.order ? 1 : -1;
}

export class ContributorGroup {
name: string;
order: number;
contributors: Contributor[];
}

export class Contributor {
group: string;
name: string;
picture?: string;
website?: string;
twitter?: string;
bio?: string;
isFlipped ? = false;
}

import { Component, OnInit } from '@angular/core';
import { ContributorGroup } from './contributors.model';
import { ContributorService } from './contributor.service';
import { LocationService } from 'app/shared/location.service';

@Component({
selector: `aio-contributor-list`,
template: `
<div class="flex-center group-buttons">

```

```

    <a *ngFor="let name of groupNames"
      [class.selected]="name == selectedGroup.name"
      class="button mat-button filter-button"
      (click)="selectGroup(name)">{{ name }}</a>
  </div>
</section *ngIf="selectedGroup" class="grid-fluid">
  <div class="contributor-group">
    <aio-contributor *ngFor="let person of selectedGroup.contributors" [person]="person"></aio-contributor>
  </div>
</section>`
  })
export class ContributorListComponent implements OnInit {
  private groups: ContributorGroup[];
  groupNames: string[];
  selectedGroup: ContributorGroup;

  constructor(
    private contributorService: ContributorService,
    private locationService: LocationService) { }

  ngOnInit() {
    const groupName = this.locationService.search()['group'] || '';
    // no need to unsubscribe because `contributors` completes
    this.contributorService.contributors
      .subscribe(grps => {
        this.groups = grps;
        this.groupNames = grps.map(g => g.name);
        this.selectGroup(groupName);
      });
  }

  selectGroup(name: string) {
    name = name.toLowerCase();
    this.selectedGroup = this.groups.find(g => g.name.toLowerCase() === name) || this.groups[0];
    this.locationService.setSearch("", { group: this.selectedGroup.name });
  }
}

import { NgModule, Type } from '@angular/core';
import { CommonModule } from '@angular/common';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { ContributorComponent } from './contributor.component';
import { WithCustomElementComponent } from '../element-registry';

@NgModule({
  imports: [ CommonModule ],
  declarations: [ ContributorListComponent, ContributorComponent ],
  entryComponents: [ ContributorListComponent ],

```

```

providers: [ ContributorService ]
})
export class ContributorListModule implements WithCustomElementComponent {
  customElementComponent: Type<any> = ContributorListComponent;
}
import { Component, Input } from '@angular/core';

import { Contributor } from './contributors.model';
import { CONTENT_URL_PREFIX } from 'app/documents/document.service';

@Component({
  selector: 'aio-contributor',
  template: `
    <div [ngClass]="{ 'flipped': person.isFlipped }" class="contributor-card">

      <div class="card-front" (click)="flipCard(person)">
        <h3>{{ person.name }}</h3>

        <div class="contributor-image" [style.background-image]="url('+pictureBase+(person.picture ||
noPicture)+')">
          <div class="contributor-info">
            <a *ngIf="person.bio" mat-button>
              View Bio
            </a>
            <a *ngIf="person.twitter" mat-button class="icon"
              href="https://twitter.com/{{ person.twitter }}" target="_blank" (click)="$event.stopPropagation()">
              <span class="fa fa-twitter fa-2x"></span>
            </a>
            <a *ngIf="person.website" mat-button class="icon"
              href="{{ person.website }}" target="_blank" (click)="$event.stopPropagation()">
              <span class="fa fa-link fa-2x"></span>
            </a>
          </div>
        </div>
      </div>

      <div class="card-back" *ngIf="person.isFlipped" (click)="flipCard(person)">
        <h3>{{ person.name }}</h3>
        <p class="contributor-bio">{{ person.bio }}</p>
      </div>
    </div>
  `
})
export class ContributorComponent {
  @Input() person: Contributor;
  noPicture = '_no-one.png';
  pictureBase = CONTENT_URL_PREFIX + 'images/bios/';

```



```
flipCard(person: Contributor) {  
  person.isFlipped = !person.isFlipped;  
}  
}
```

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## 1.3 angular-file-upload 2.5.0

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## 1.4 angular/cli 6.2.9

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 */  
  
// tslint:disable:no-implicit-dependencies  
import { JsonObject, logging } from '@angular-devkit/core';  
import * as path from 'path';  
import { packages } from '../lib/packages';  
  
require('../lib/bootstrap-local');
```

```

const spdxSatisfies = require('spdx-satisfies');

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 */
const licensesWhitelist = [
  // Regular valid open source licenses supported by Google.
  'MIT',
  'ISC',
  'Apache-2.0',

  'BSD-2-Clause',
  'BSD-3-Clause',
  'BSD-4-Clause',

  // All CC-BY licenses have a full copyright grant and attribution section.
  'CC-BY-3.0',
  'CC-BY-4.0',

  // Have a full copyright grant. Validated by opensource team.
  'Unlicense',

  // Combinations.
  '(AFL-2.1 OR BSD-2-Clause)',
];

// Name variations of SPDX licenses that some packages have.
// Licenses not included in SPDX but accepted will be converted to MIT.
const licenseReplacements: { [key: string]: string } = {
  // Just a longer string that our script catches. SPDX official name is the shorter one.
  'Apache License, Version 2.0': 'Apache-2.0',
  'Apache2': 'Apache-2.0',
  'Apache 2.0': 'Apache-2.0',
  'Apache v2': 'Apache-2.0',
  'AFLv2.1': 'AFL-2.1',
  // BSD is BSD-2-clause by default.
  'BSD': 'BSD-2-Clause',
};

// Specific packages to ignore, add a reason in a comment. Format: package-name@version.

```

```

const ignoredPackages = [
  // Us.
  '@angular/devkit-repo@0.0.0', // Hey, that's us!
  // * Development only
  'spdx-license-ids@3.0.0', // CC0 but it's content only (index.json, no code) and not distributed.
  'tslint-sonarts@1.7.0', // LGPL-3.0 but only used as a tool, not linked in the build.

  // * Broken license fields
  'bitsyntax@0.0.4', // MIT but no license field in package.json
  'pako@1.0.6', // MIT but broken license in package.json
  'true-case-path@1.0.2', // Apache-2.0 but broken license in package.json

  // * Other
  'jsonify@0.0.0', // TODO(hansl): fix this. this is not an acceptable license, but is 8 deps down
    // so hard to manage. In talk with owner and users to switch over.
  'uws@9.14.0', // Zlib -- TODO(filipesilva): remove this when karma is moved to e2e tests.
  // TODO(filipesilva): remove this when spec_large is moved to e2e tests.
  'font-awesome@4.7.0', // (OFL-1.1 AND MIT)
];

// Ignore own packages (all MIT)
for (const packageName of Object.keys(packages)) {
  ignoredPackages.push(`${packageName}@0.0.0`);
}

// Find all folders directly under a `node_modules` that have a package.json.
const checker = require('license-checker');

// Check if a license is accepted by an array of accepted licenses
function _passesSpdx(licenses: string[], accepted: string[]) {
  try {
    return spdxSatisfies(licenses.join(' AND '), accepted.join(' OR '));
  } catch {
    return false;
  }
}

export default function (_options: {}, logger: logging.Logger): Promise<number> {
  return new Promise(resolve => {
    checker.init({ start: path.join(__dirname, '..') }, (err: Error, json: JsonObject) => {
      if (err) {
        logger.fatal(`Something happened:\n${err.message}`);
        resolve(1);
      } else {
        logger.info(`Testing ${Object.keys(json).length} packages.\n`);
      }
    });
  });
}

```

```

// Packages with bad licenses are those that neither pass SPDX nor are ignored.
const badLicensePackages = Object.keys(json)
  .map(key => ({
    id: key,
    licenses: ([] as string[])
      .concat((json[key] as JsonObject).licenses as string[])
      // `*` is used when the license is guessed.
      .map(x => x.replace(/^\*$/, ""))
      .map(x => x in licenseReplacements ? licenseReplacements[x] : x),
  )))
  .filter(pkg => !_passesSpdx(pkg.licenses, licensesWhitelist))
  .filter(pkg => !ignoredPackages.find(ignored => ignored === pkg.id));

// Report packages with bad licenses
if (badLicensePackages.length > 0) {
  logger.error('Invalid package licences found:');
  badLicensePackages.forEach(pkg => {
    logger.error(`${pkg.id}: ${JSON.stringify(pkg.licenses)}`);
  });
  logger.fatal(`\n${badLicensePackages.length} total packages with invalid licenses.`);
  resolve(2);
} else {
  logger.info('All package licenses are valid.');
```

```

  resolve(0);
}
}
});
});
}
import {join} from 'path';
import {expectFileToExist} from '../utils/fs';
import {expectToFail} from '../utils/utils';
import {ng} from '../utils/process';

export default function() {
  // TODO(architect): Delete this test. It is now in devkit/build-angular.

  return ng('build', '--prod', '--extract-licenses=false')
    .then(() => expectFileToExist(join(process.cwd(), 'dist')))
    .then(() => expectToFail(() => expectFileToExist('dist/test-project/3rdpartylicenses.txt')));
}
<pre style="word-wrap: break-word; white-space: pre-wrap;">The MIT License
```

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```
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 */

import { DefaultTimeout, runTargetSpec } from '@angular-devkit/architect/testing';
import { join, normalize } from '@angular-devkit/core';
import { tap } from 'rxjs/operators';
import { browserTargetSpec, host } from '../utils';

describe('Browser Builder license extraction', () => {
  const outputPath = normalize('dist');

  beforeEach(done => host.initialize().toPromise().then(done, done.fail));
  afterEach(done => host.restore().toPromise().then(done, done.fail));

  // Ignored because license works when trying manually on a project, but doesn't work here.
  // TODO: fix VFS use in webpack and the test host, and reenable this test.
  xit('works', (done) => {
    // TODO: make license extraction independent from optimization level.
    const overrides = { extractLicenses: true, optimization: true };

    runTargetSpec(host, browserTargetSpec, overrides, DefaultTimeout * 2).pipe(
      tap((buildEvent) => expect(buildEvent.success).toBe(true)),
      tap(() => {
        const fileName = join(outputPath, '3rdpartylicenses.txt');
        expect(host.scopedSync().exists(fileName)).toBe(true);
      }),
    ).toPromise().then(done, done.fail);
  });
});
```

```
});  
});  
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```

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## 1.5 angular2-fontawesome 0.9.3

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## 1.6 angular2-jwt 0.2.3

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## 1.7 angular2-multiselect-dropdown 4.2.0

### 1.7.1 Available under license :

core-js@2.5.7

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zone.js@0.8.26  
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primeng@6.1.4

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## 1.8 async 2.6.0

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## 1.9 bluebird 3.5.1

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## 1.10 body-parser 1.18.2

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# 1.11 bpmn-js 0.21.0

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```
*/
package org.camunda.bpm.engine.authorization;
```

```
/**
```

```
* <p>A permission represents an authorization to interact with a given
* resource in a specific way. See { @link Permissions } for a set of built-in
* permissions and { @link Authorization } for general overview on authorizations.</p>
```

```
*/
```

```
* <p>In camunda BPM, multiple permissions are grouped into an { @link Authorization }.
* For efficient storage and checking of authorizations, the permissions that make
* up an authorization are coded into a single integer.
* The implication of this design is that a permission must have a unique integer value
* and it must be a power of two, ie 2^0, 2^1, 2^2, 2^3, 2^4 ...
```

```
*/
```

```
* The permission can then be added to an authorization using bitwise OR:
```

```
* <pre>
```

```
*   Auth: 0000001001001
*   Perm to add: 0000000010000
*   bit OR (|) : 0000001011001
* </pre>
```

```
*/
```

```
* and removed using bitwise AND of the inverted value:
```

```
* <pre>
```

```
*   Auth: 0000001001001
*   Perm to rem: 0000000001000
*   invert (~) : 111111110111
*   bit AND (&): 0000001000001
* </pre>
```

```
*/
```

```
* <h2>Defining a custom Permission</h2>
```

```
* The { @link Permissions } class contains the values of the built-in
* permissions. In order to define a custom permission, you must provide
* an implementation of this interface such that the { @link #getValue() }
* method returns an integer which is a power of two and not yet used by the
* built-in { @link Permissions } and not reserved (values <=2^14 are reserved).
* Valid example: 2^15=32768.</p>
```

```
*/
```

```
*/
```

```
* @author Daniel Meyer
```

```

* @since 7.0
*/
public interface Permission {

    /** returns the name of the permission, ie. 'WRITE' */
    String getName();

    /** returns the unique numeric value of the permission.
     * Must be a power of 2. ie 2^0, 2^1, 2^2, 2^3, 2^4 ... */
    int getValue();

}
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <parent>
    <groupId>org.camunda.bpm</groupId>
    <artifactId>camunda-database-settings</artifactId>
    <relativePath>../../database</relativePath>
    <version>7.9.0</version>
  </parent>

  <artifactId>license-book</artifactId>
  <packaging>pom</packaging>

  <name>camunda BPM - License Book</name>

  <build>
    <plugins>

      <!-- assemble zip artifact -->
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-assembly-plugin</artifactId>
        <executions>
          <execution>
            <id>assemble</id>
            <phase>prepare-package</phase>
            <goals>
              <goal>single</goal>
            </goals>
            <configuration>
              <descriptors>
                <descriptor>assembly.xml</descriptor>
              </descriptors>
              <attach>true</attach>
              <appendAssemblyId>>false</appendAssemblyId>
            </configuration>
          </execution>
        </executions>
      </plugin>
    </plugins>
  </build>
</project>

```

```

    <outputDirectory>target</outputDirectory>
    <workDirectory>target/assembly/work</workDirectory>
    <tarLongFileMode>gnu</tarLongFileMode>
  </configuration>
</execution>
</executions>
</plugin>

<!-- copy and filter license book -->
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-antrun-plugin</artifactId>
  <executions>
    <execution>
      <id>copy-test-dependencies</id>
      <phase>prepare-package</phase>
      <goals>
        <goal>run</goal>
      </goals>
      <configuration>
        <target>

          <copy todir="target/">
            <fileset dir="src/main/resources">
              <include name="**/*.txt" />
            </fileset>
          </copy>

          <!-- replace database versions -->
          <replace dir="target/">
            <include name="license-book.txt" />
            <replacefilter token="@project.version@" value="\${project.version}" />
          </replace>

        </target>
      </configuration>
    </execution>
  </executions>
</plugin>

<!-- attach artifact -->
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>build-helper-maven-plugin</artifactId>
  <executions>
    <execution>
      <id>attach-artifacts</id>
      <phase>package</phase>

```

```

    <goals>
      <goal>attach-artifact</goal>
    </goals>
    <configuration>
      <artifacts>
        <artifact>
          <file>target/license-book.txt</file>
          <type>txt</type>
        </artifact>
      </artifacts>
    </configuration>
  </execution>
</executions>
</plugin>

</plugins>
</build>

```

```
</project>
```

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Date

Author

Release

Description of Change

<revision number>

YYYY-MM-DD

<author>

<release number>

change

1.0

2017-12-27

Ulrike Liss

7.8

Final version

2.0

2018-03-20

Ulrike Liss

7.9

intermediate

3.0

2018-05-16

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7.9

Final version

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JavaBeans Activation Framework (JAF): 1.1 (<https://github.com/javaee/activation>)

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JavaMail API: 1.4.1

([https://github.com/oreillymedia/automating\\_actionscript\\_projects\\_with\\_eclipse\\_and\\_ant/tree/master/ant\\_jarfiles/javamail-1.4.4](https://github.com/oreillymedia/automating_actionscript_projects_with_eclipse_and_ant/tree/master/ant_jarfiles/javamail-1.4.4))

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=====  
=====

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<assembly xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
xmlns="urn:maven:assembly:1.1.0-SNAPSHOT">
```

```
<id>assemble</id>
```

```
<formats>
```

```
<format>zip</format>
```



```
</formats>

<includeBaseDirectory>>false</includeBaseDirectory>

<files>
  <file>
    <source>src/main/resources/license-book.txt</source>
    <filtered>>true</filtered>
    <lineEnding>crlf</lineEnding>
    <outputDirectory></outputDirectory>
    <destName>LICENSE_BOOK-${project.version}.txt</destName>
  </file>
</files>
</assembly>
```

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## 1.23 diagram-js-origin 0.15.2

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## 1.24 docker 17.03.1

### 1.24.1 Available under license :

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Protocol Buffers for Go with Gadgets

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See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fin/FinnishLightStemmer.java  
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## 1.27 ELK-Logstash 6.1.2

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# 1.28 express 4.16.2

## 1.28.1 Available under license :

(The MIT License)

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Copyright (c) 2013-2014 Roman Shtylman <shtylman+expressjs@gmail.com>

Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

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# 1.29 file-saver 1.3.3

## 1.29.1 Available under license :

The MIT License

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[1]: <http://eligrey.com>

## 1.30 font-awesome 4.7.0

### 1.30.1 Available under license :

```
---
layout: base
title: Font Awesome License
navbar_active: license
relative_path: ../
---
{% capture jumbotron_h1 %}<i class="fa fa-gavel" aria-hidden="true"></i>&nbsp;License{% endcapture %}
{% capture jumbotron_p %}The full details of how Font Awesome is licensed{% endcapture %}

{% include jumbotron.html %}
{% include stripe-social.html %}

<div class="container">
  {% capture stripe_ad_content %}
  <p class="lead">
    Font Awesome is fully open source and is GPL friendly. You can use it for commercial projects, open source
    projects, or really just about whatever you want.
  </p>
  {% endcapture %}
  {% include stripe-ad.html %}

  <section>
    <div class="alert alert-success">
      <ul class="fa-ul margin-bottom-none">
        <li>
          <i class="fa-li fa fa-info-circle fa-lg" aria-hidden="true"></i>Attribution is no longer required as of Font
          Awesome 3.0 but is much appreciated:
          "Font Awesome by Dave Gandy - http://fontawesome.io".
        </li>
      </ul>
    </div>
  </section>

  <section>
    <h2 class="page-header">Font License</h2>
    <ul>
      <li>
        Applies to all desktop and webfont files in the following directory:
```

```

    <code>font-awesome/fonts/</code>.
  </li>
  <li>License: {{ site.fontawesome.license.font.version }}</li>
  <li>URL: <a href="{{ site.fontawesome.license.font.url }}">{{ site.fontawesome.license.font.url }}</a></li>
</ul>
</section>

```

```

<section>
  <h2 class="page-header">Code License</h2>
  <ul>
  <li>
    Applies to all CSS and LESS files in the following directories:
    <code>font-awesome/css/</code>,
    <code>font-awesome/less/</code>, and
    <code>font-awesome/scss/</code>.
  </li>
  <li>License: {{ site.fontawesome.license.code.version }}</li>
  <li>URL: <a href="{{ site.fontawesome.license.code.url }}">{{ site.fontawesome.license.code.url }}</a></li>
</ul>
</section>

```

```

<section>
  <h2 class="page-header">Documentation License</h2>
  <ul>
  <li>Applies to all Font Awesome project files that are not a part of the Font or Code licenses.</li>
  <li>License: {{ site.fontawesome.license.documentation.version }}</li>
  <li>URL: <a href="{{ site.fontawesome.license.documentation.url }}">{{
site.fontawesome.license.documentation.url }}</a></li>
</ul>
</section>

```

```

<section>
  <h2 class="page-header">Brand Icons</h2>
  {% include brand-license.html %}
</section>

```

```

</div>
<!DOCTYPE html>
<!--[if lt IE 7 ]><html class="ie ie6" lang="en"> <![endif]-->
<!--[if IE 7 ]><html class="ie ie7" lang="en"> <![endif]-->
<!--[if IE 8 ]><html class="ie ie8" lang="en"> <![endif]-->
<!--[if (gte IE 9)|(IE)]><!-->
<html lang="en" xmlns="http://www.w3.org/1999/html"> <!--<![endif]-->
<head>
  <!-- Basic Page Needs
===== -->
  <meta charset="utf-8" />
  <title>icon-legal: Font Awesome Icons</title>
  <meta name="description" content="Font Awesome, the iconic font designed for Bootstrap">

```

```

<meta name="author" content="Dave Gandy">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<!--<meta name="viewport" content="initial-scale=1; maximum-scale=1"-->

<!--[if lt IE 9]>
<script src="http://html5shim.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->

<!-- CSS
===== -->

<link rel="stylesheet" href="../../assets/css/site.css">
<link rel="stylesheet" href="../../assets/css/pygments.css">
<link rel="stylesheet" href="../../assets/font-awesome/css/font-awesome.css">
<!--[if IE 7]>
<link rel="stylesheet" href="../../assets/font-awesome/css/font-awesome-ie7.css">
<![endif]-->
<!-- Le fav and touch icons -->
<link rel="shortcut icon" href="../../assets/ico/favicon.ico">

<script type="text/javascript" src="//use.typekit.net/wnc7ioh.js"></script>
<script type="text/javascript">try{Typekit.load();}catch(e){}</script>

<script type="text/javascript">
var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-30136587-1']);
_gaq.push(['_trackPageview']);

(function() {
var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();
</script>
</head>
<body data-spy="scroll" data-target=".navbar">
<div class="wrapper"> <!-- necessary for sticky footer. wrap all content except footer -->
<div class="navbar navbar-inverse navbar-static-top hidden-print">
<div class="navbar-inner">
<div class="container">
<a class="btn btn-navbar" data-toggle="collapse" data-target=".nav-collapse">
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</a>

<a class="brand" href="../../"><i class="icon-flag"></i> Font Awesome</a>
<div class="nav-collapse collapse">

```

```

<ul class="nav">
  <li class="hidden-tablet "><a href="..">Home</a></li>
  <li><a href=" ../get-started">Get Started</a></li>
  <li class="dropdown-split-left"><a href=" ../icons">Icons</a></li>
  <li class="dropdown dropdown-split-right hidden-phone">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">
      <i class="icon-caret-down"></i>
    </a>
    <ul class="dropdown-menu pull-right">
      <li><a href=" ../icons"><i class="icon-flag icon-fixed-width"></i>&nbsp;Icons</a></li>
      <li class="divider"></li>
      <li><a href=" ../icons/#new"><i class="icon-shield icon-fixed-width"></i>&nbsp;New Icons in
3.2.1</a></li>
      <li><a href=" ../icons/#web-application"><i class="icon-camera-retro icon-fixed-width"></i>&nbsp;Web
Application Icons</a></li>
      <li><a href=" ../icons/#currency"><i class="icon-won icon-fixed-width"></i>&nbsp;Currency
Icons</a></li>
      <li><a href=" ../icons/#text-editor"><i class="icon-file-text-alt icon-fixed-width"></i>&nbsp;Text Editor
Icons</a></li>
      <li><a href=" ../icons/#directional"><i class="icon-hand-right icon-fixed-width"></i>&nbsp;Directional
Icons</a></li>
      <li><a href=" ../icons/#video-player"><i class="icon-play-sign icon-fixed-width"></i>&nbsp;Video
Player Icons</a></li>
      <li><a href=" ../icons/#brand"><i class="icon-github icon-fixed-width"></i>&nbsp;Brand Icons</a></li>
      <li><a href=" ../icons/#medical"><i class="icon-medkit icon-fixed-width"></i>&nbsp;Medical
Icons</a></li>
    </ul>
  </li>
  <li class="dropdown-split-left"><a href=" ../examples/">Examples</a></li>
  <li class="dropdown dropdown-split-right hidden-phone">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">
      <i class="icon-caret-down"></i>
    </a>
    <ul class="dropdown-menu pull-right">
      <li><a href=" ../examples/">Examples</a></li>
      <li class="divider"></li>
      <li><a href=" ../examples/#new-styles">New Styles</a></li>
      <li><a href=" ../examples/#inline-icons">Inline Icons</a></li>
      <li><a href=" ../examples/#larger-icons">Larger Icons</a></li>
      <li><a href=" ../examples/#bordered-pulled">Bordered & Pulled</a></li>
      <li><a href=" ../examples/#buttons">Buttons</a></li>
      <li><a href=" ../examples/#button-groups">Button Groups</a></li>
      <li><a href=" ../examples/#button-dropdowns">Button Dropdowns</a></li>
      <li><a href=" ../examples/#bulleted-lists">Bulleted Lists</a></li>
      <li><a href=" ../examples/#navigation">Navigation</a></li>
      <li><a href=" ../examples/#form-inputs">Form Inputs</a></li>
      <li><a href=" ../examples/#animated-spinner">Animated Spinner</a></li>
      <li><a href=" ../examples/#rotated-flipped">Rotated & Flipped</a></li>
    </ul>
  </li>

```



```

<div class="container">
  <section>
    <div class="row-fluid">
      <div class="span9">
        <p>After you get <a href="../../integration/">up and running</a>, you can place Font Awesome icons just about
anywhere with the <code><i></code> tag:</p>
        <div class="well well-transparent">
          <div style="font-size: 24px; line-height: 1.5em;">
            <i class="icon-legal"></i> icon-legal
          </div>
        </div>
<div class="highlight"><pre><code class="html"><span class="nt"><i/></span> <span
class="na">class=</span><span class="s">"icon-legal"</span><span class="nt">></i></span> icon-legal
</code></pre></div>
        <br>
        <div class="lead"><i class="icon-info-sign"></i> Looking for more? Check out the <a
href="../../examples/">examples</a>.</div>
      </div>
      <div class="span3">
        <div class="info-ad"><div id="carbonads-container"><div class="carbonad"><div
id="azcarbon"></div><script type="text/javascript">var z = document.createElement("script"); z.type =
"text/javascript"; z.async = true; z.src = "http://engine.carbonads.com/z/32291/azcarbon_2_1_0_VERT"; var s =
document.getElementsByTagName("script")[0]; s.parentNode.insertBefore(z, s);</script></div></div>
</div>
      </div>
    </div>
  </section>
</div>

<div class="push"><!-- necessary for sticky footer --></div>
</div>
<footer class="footer hidden-print">
<div class="container text-center">
  <div>
    <i class="icon-flag"></i> Font Awesome 3.2.1
    <span class="hidden-phone">&middot;</span><br class="visible-phone">
    Created and Maintained by <a href="http://twitter.com/davegandy">Dave Gandy</a>
  </div>
  <div>
    Font Awesome licensed under <a href="http://scripts.sil.org/OFL">SIL OFL 1.1</a>
    <span class="hidden-phone">&middot;</span><br class="visible-phone">
    Code licensed under <a href="http://opensource.org/licenses/mit-license.html">MIT License</a>
    <span class="hidden-phone hidden-tablet">&middot;</span><br class="visible-phone visible-tablet">
    Documentation licensed under <a href="http://creativecommons.org/licenses/by/3.0/">CC BY 3.0</a>
  </div>
  <div>
    Thanks to <a href="http://tracking.maxcdn.com/c/148092/3982/378"><i class="icon-maxcdn"></i>

```

```

MaxCDN</a> for providing the excellent <a
href="http://www.bootstrapcdn.com/#tab_fontawesome">BootstrapCDN for Font Awesome</a>
</div>
<div class="project">
  <a href="https://github.com/FortAwesome/Font-Awesome">GitHub Project</a> &middot;
  <a href="https://github.com/FortAwesome/Font-Awesome/issues">Issues</a>
</div>
</div>
</footer>

```

```

<script src="http://platform.twitter.com/widgets.js"></script>
<script src="../../assets/js/jquery-1.7.1.min.js"></script>
<script src="../../assets/js/ZeroClipboard-1.1.7.min.js"></script>
<script src="../../assets/js/bootstrap-2.3.1.min.js"></script>
<script src="../../assets/js/site.js"></script>

```

```
</body>
```

```
</html>
```

```
<!DOCTYPE html>
```

```
<!--[if lt IE 7 ]><html class="ie ie6" lang="en"> <![endif]-->
```

```
<!--[if IE 7 ]><html class="ie ie7" lang="en"> <![endif]-->
```

```
<!--[if IE 8 ]><html class="ie ie8" lang="en"> <![endif]-->
```

```
<!--[if (gte IE 9)!!(IE)]><!-->
```

```
<html lang="en" xmlns="http://www.w3.org/1999/html"> <!--<![endif]-->
```

```
<head>
```

```
<!-- Basic Page Needs
```

```
===== -->
```

```
<meta charset="utf-8" />
```

```
<title>Font Awesome License</title>
```

```
<meta name="description" content="Font Awesome, the iconic font designed for Bootstrap">
```

```
<meta name="author" content="Dave Gandy">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<!--<meta name="viewport" content="initial-scale=1; maximum-scale=1">-->
```

```
<!--[if lt IE 9]>
```

```
<script src="http://html5shim.googlecode.com/svn/trunk/html5.js"></script>
```

```
<![endif]-->
```

```
<!-- CSS
```

```
===== -->
```

```
<link rel="stylesheet" href="../../assets/css/site.css">
```

```
<link rel="stylesheet" href="../../assets/css/pygments.css">
```

```
<link rel="stylesheet" href="../../assets/font-awesome/css/font-awesome.css">
```

```
<!--[if IE 7]>
```

```
<link rel="stylesheet" href="../../assets/font-awesome/css/font-awesome-ie7.css">
```

```
<![endif]-->
```



```

<!-- Le fav and touch icons -->
<link rel="shortcut icon" href="../assets/ico/favicon.ico">

<script type="text/javascript" src="//use.typekit.net/wnc7ioh.js"></script>
<script type="text/javascript">try{Typekit.load();}catch(e){}</script>

<script type="text/javascript">
  var _gaq = _gaq || [];
  _gaq.push(['_setAccount', 'UA-30136587-1']);
  _gaq.push(['_trackPageview']);

  (function() {
    var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
    ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
    var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
  })();
</script>
</head>
<body data-spy="scroll" data-target=".navbar">
<div class="wrapper"> <!-- necessary for sticky footer. wrap all content except footer -->
<div class="navbar navbar-inverse navbar-static-top hidden-print">
<div class="navbar-inner">
<div class="container">
  <a class="btn btn-navbar" data-toggle="collapse" data-target=".nav-collapse">
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
  </a>

  <a class="brand" href=".."><i class="icon-flag"></i> Font Awesome</a>
  <div class="nav-collapse collapse">
    <ul class="nav">
      <li class="hidden-tablet "><a href="..">Home</a></li>
      <li><a href="..get-started/">Get Started</a></li>
      <li class="dropdown-split-left"><a href="..icons/">Icons</a></li>
      <li class="dropdown dropdown-split-right hidden-phone">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">
          <i class="icon-caret-down"></i>
        </a>
        <ul class="dropdown-menu pull-right">
          <li><a href="..icons/"><i class="icon-flag icon-fixed-width"></i>&nbsp;Icons</a></li>
          <li class="divider"></li>
          <li><a href="..icons/#new"><i class="icon-shield icon-fixed-width"></i>&nbsp;New Icons in
3.2.1</a></li>
          <li><a href="..icons/#web-application"><i class="icon-camera-retro icon-fixed-width"></i>&nbsp;Web
Application Icons</a></li>
          <li><a href="..icons/#currency"><i class="icon-won icon-fixed-width"></i>&nbsp;Currency
Icons</a></li>

```

```

        <li><a href=" ../icons/#text-editor"><i class="icon-file-text-alt icon-fixed-width"></i>&nbsp; Text Editor
Icons</a></li>
        <li><a href=" ../icons/#directional"><i class="icon-hand-right icon-fixed-width"></i>&nbsp; Directional
Icons</a></li>
        <li><a href=" ../icons/#video-player"><i class="icon-play-sign icon-fixed-width"></i>&nbsp; Video Player
Icons</a></li>
        <li><a href=" ../icons/#brand"><i class="icon-github icon-fixed-width"></i>&nbsp; Brand Icons</a></li>
        <li><a href=" ../icons/#medical"><i class="icon-medkit icon-fixed-width"></i>&nbsp; Medical
Icons</a></li>
    </ul>
</li>
<li class="dropdown-split-left"><a href=" ../examples/">Examples</a></li>
<li class="dropdown dropdown-split-right hidden-phone">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">
        <i class="icon-caret-down"></i>
    </a>
    <ul class="dropdown-menu pull-right">
        <li><a href=" ../examples/">Examples</a></li>
        <li class="divider"></li>
        <li><a href=" ../examples/#new-styles">New Styles</a></li>
        <li><a href=" ../examples/#inline-icons">Inline Icons</a></li>
        <li><a href=" ../examples/#larger-icons">Larger Icons</a></li>
        <li><a href=" ../examples/#bordered-pulled">Bordered & Pulled</a></li>
        <li><a href=" ../examples/#buttons">Buttons</a></li>
        <li><a href=" ../examples/#button-groups">Button Groups</a></li>
        <li><a href=" ../examples/#button-dropdowns">Button Dropdowns</a></li>
        <li><a href=" ../examples/#bulleted-lists">Bulleted Lists</a></li>
        <li><a href=" ../examples/#navigation">Navigation</a></li>
        <li><a href=" ../examples/#form-inputs">Form Inputs</a></li>
        <li><a href=" ../examples/#animated-spinner">Animated Spinner</a></li>
        <li><a href=" ../examples/#rotated-flipped">Rotated & Flipped</a></li>
        <li><a href=" ../examples/#stacked">Stacked</a></li>
        <li><a href=" ../examples/#custom">Custom CSS</a></li>
    </ul>
</li>
<li><a href=" ../whats-new/">
    <span class="hidden-tablet">What's </span>New</a>
</li>
<li><a href=" ../community/">Community</a></li>
<li class="active"><a href=" ../license/">License</a></li>
</ul>
<ul class="nav pull-right">
    <li><a href="http://articles.fortawesome.com">Blog</a></li>
</ul>
</div>
</div>
</div>
</div>

```

```

<div class="jumbotron jumbotron-ad hidden-print">
  <div class="container">
    <h1><i class="icon-legal icon-large"></i>&nbsp; License</h1>
    <p>The full details of how Font Awesome is licensed</p>
  </div>
</div>

<div id="social-buttons" class="hidden-print">
  <div class="container">
    <ul class="unstyled inline">
      <li>
        <iframe class="github-btn" src="http://ghbtns.com/github-btn.html?user=FontAwesome&repo=Font-Awesome&type=watch&count=true" allowtransparency="true" frameborder="0" scrolling="0" width="100px" height="20px"></iframe>
      </li>
      <li>
        <iframe class="github-btn" src="http://ghbtns.com/github-btn.html?user=FontAwesome&repo=Font-Awesome&type=fork&count=true" allowtransparency="true" frameborder="0" scrolling="0" width="102px" height="20px"></iframe>
      </li>
      <li class="follow-btn">
        <a href="https://twitter.com/fontawesome" class="twitter-follow-button" data-link-color="#0069D6" data-show-count="true">Follow @fontawesome</a>
      </li>
      <li class="tweet-btn hidden-phone">
        <a href="https://twitter.com/share" class="twitter-share-button" data-url="http://fontawesome.io" data-text="Font Awesome, the iconic font designed for Bootstrap" data-counturl="http://fontawesome.github.com/Font-Awesome/" data-count="horizontal" data-via="fontawesome" data-related="davegandy:Creator of Font Awesome">Tweet</a>
      </li>
    </ul>
  </div>
</div>

<div class="container">

<section class="old-docs">
  <div class="row">
    <div class="span12">
      <div class="alert alert-danger">
        <strong>Heads up!</strong> These docs are for v3.2.1, which is no longer officially supported. <a href="..">Check out the latest version of Font Awesome!</a>
      </div>
    </div>
  </div>
</section>

```

```

    </div>
  </div>
</div>
</section>
<section class="hidden-print">
  <div class="row stripe-ad">
    <div class="span8">

<p class="lead">
Font Awesome is fully open source and is GPL compatible. You can use it for commercial projects, open source
projects, or really just about whatever you want.
</p>

  </div>
  <div class="span4">
    <div id="carbonads-container"><div class="carbonad"><div id="azcarbon"></div><script
type="text/javascript">var z = document.createElement("script"); z.type = "text/javascript"; z.async = true; z.src =
"http://engine.carbonads.com/z/32291/azcarbon_2_1_0_HORIZ"; var s =
document.getElementsByTagName("script")[0]; s.parentNode.insertBefore(z, s);</script></div></div>

  </div>
</div>
</section>

<div>
  <div class="alert alert-info">
    <ul class="icons-ul margin-bottom-none">
      <li>
        <i class="icon-li icon-info-sign icon-large"></i>Attribution is no longer required as of Font Awesome 3.0 but is
much appreciated:
        "Font Awesome by Dave Gandy - http://fontawesome.io".
      </li>
    </ul>
  </div>
</div>

<section>
  <h2 class="page-header">Font License</h2>
  <ul>
    <li>
      Applies to all desktop and webfont files in the following directory:
      <code>font-awesome/font/</code>.
    </li>
    <li>License: SIL OFL 1.1</li>
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  </ul>
</section>

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<section>
<h2 class="page-header">Code License</h2>
<ul>
<li>
  Applies to all CSS and LESS files in the following directories:
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</ul>
</section>
```

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</ul>
</section>
```

```
<section>
<h2 class="page-header">Brand Icons</h2>
<ul class="margin-bottom-none">
<li>All brand icons are trademarks of their respective owners.</li>
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versa.</li>
</ul>
</section>
```

```
</div>
```

```
<div class="push"><!-- necessary for sticky footer --></div>
</div>
<footer class="footer hidden-print">
<div class="container text-center">
<div>
  <i class="icon-flag"></i> Font Awesome 3.2.1
  <span class="hidden-phone">&middot;</span><br class="visible-phone">
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<div>
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```

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Thanks to <a href="http://tracking.maxcdn.com/c/148092/3982/378"><i class="icon-maxcdn"></i>
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<div class="project">
<a href="https://github.com/FortAwesome/Font-Awesome">GitHub Project</a> &middledot;
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</div>
</div>
</footer>

<script src="http://platform.twitter.com/widgets.js"></script>
<script src="../assets/js/jquery-1.7.1.min.js"></script>
<script src="../assets/js/ZeroClipboard-1.1.7.min.js"></script>
<script src="../assets/js/bootstrap-2.3.1.min.js"></script>
<script src="../assets/js/site.js"></script>

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compiler/cpp/src/generate/t\_erl\_generator.cc  
compiler/cpp/src/generate/t\_hs\_generator.cc  
compiler/cpp/src/generate/t\_java\_generator.cc

compiler/cpp/src/generate/t\_ocaml\_generator.cc  
compiler/cpp/src/generate/t\_perl\_generator.cc  
compiler/cpp/src/generate/t\_php\_generator.cc  
compiler/cpp/src/generate/t\_py\_generator.cc  
compiler/cpp/src/generate/t\_rb\_generator.cc  
compiler/cpp/src/generate/t\_st\_generator.cc  
compiler/cpp/src/generate/t\_xsd\_generator.cc  
compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h  
compiler/cpp/src/platform.h  
compiler/cpp/src/thrift.ll  
compiler/cpp/src/thrift.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
lib/csharp/src/Protocol/TMap.cs  
lib/csharp/src/Protocol/TMessage.cs  
lib/csharp/src/Protocol/TMessageType.cs  
lib/csharp/src/Protocol/TProtocol.cs  
lib/csharp/src/Protocol/TProtocolException.cs  
lib/csharp/src/Protocol/TProtocolFactory.cs  
lib/csharp/src/Protocol/TProtocolUtil.cs  
lib/csharp/src/Protocol/TSet.cs  
lib/csharp/src/Protocol/TStruct.cs  
lib/csharp/src/Protocol/TType.cs  
lib/csharp/src/Server/TServer.cs  
lib/csharp/src/Server/TSimpleServer.cs  
lib/csharp/src/Server/TThreadPoolServer.cs  
lib/csharp/src/TApplicationException.cs  
lib/csharp/src/Thrift.csproj  
lib/csharp/src/Thrift.sln  
lib/csharp/src/TProcessor.cs  
lib/csharp/src/Transport/TServerSocket.cs  
lib/csharp/src/Transport/TServerTransport.cs  
lib/csharp/src/Transport/TSocket.cs  
lib/csharp/src/Transport/TStreamTransport.cs  
lib/csharp/src/Transport/TTransport.cs  
lib/csharp/src/Transport/TTransportException.cs  
lib/csharp/src/Transport/TTransportFactory.cs  
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs  
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj  
lib/rb/lib/thrift.rb  
lib/st/README  
lib/st/thrift.st  
test/OptionalRequiredTest.cpp  
test/OptionalRequiredTest.thrift

test/ThriftTest.thrift

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```
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For the compiler/cpp/src/md5.[ch] components:

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Go support for Protocol Buffers - Google's data interchange format

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## go-diff - <https://github.com/sergi/go-diff>

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## golcs - <https://github.com/yudai/golcs>

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Go support for Protocol Buffers - Google's data interchange format

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/\*!

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## 1.36 jwt-decode 2.2.0

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## 1.38 keepalived 2.0.11

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Jan Holmberg, <jan@artech.net> :

- o Memory framework
- o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :

- o MISC checker redesign
- o Scheduler framework extension to support child process handling.
- o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :

- o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :

- o Added `dont_track_primary`, `nopreempt`, `preempt_delay`, and `misc_dynamic`.

Kevin Lindsay, <kevinl@netnation.com> :

- o Fixed shadowed declaration reported by `-Wshadow`.
- o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :

- o Patch for `u_threshold` and `l_threshold` support.



Willy Tarreau, <w at 1wt.eu> :  
o Extended VRRP framework to support floating  
priority.  
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## 1.39 kibana 6.2.4

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# 1.50 nginx 1.13

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## 1.58 pixl-xml 1.0.13

## 1.59 portainer 1.16.1

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## 1.60 Postgresql- server 9.6

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## 1.61 Prometheus 2.2.0

## 1.62 pug 2.0.0-rc.4

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#### APPENDIX: How to apply the Apache License to your work.

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```

limitations under the License.
var fs = require('fs');
var dist = require('minimist')(process.argv).dist;
var license = require('minimist')(process.argv).license;

function addLicenseToFile (license, destination) {
  if (!license) {
    throw new Error('license path is required as 1st argument');
  }

  addLicenseTextToFile(fs.readFileSync(license).toString(), destination);
}

function addLicenseTextToFile(licenseText, destination) {
  if (!destination) {
    throw new Error('destination file path is required as 2nd argument');
  }

  fs.writeFileSync(destination, `/**
  @license
  ${licenseText}
  */
  ${fs.readFileSync(`${destination}`).toString()}
  `);
}

module.exports = {
  addLicenseToFile: addLicenseToFile,
  addLicenseTextToFile: addLicenseTextToFile
};

```

## 1.65 rxjx 6.2.2

### 1.65.1 Available under license :

```

var fs = require('fs');
var dist = require('minimist')(process.argv).dist;
var license = require('minimist')(process.argv).license;

function addLicenseToFile (license, destination) {
  if (!license) {
    throw new Error('license path is required as 1st argument');
  }

  addLicenseTextToFile(fs.readFileSync(license).toString(), destination);
}

function addLicenseTextToFile(licenseText, destination) {

```



```

if (!destination) {
  throw new Error('destination file path is required as 2nd argument');
}

fs.writeFileSync(destination, `/**
@license
${licenseText}
**/
${fs.readFileSync(`${destination}`).toString()}
`);
}

module.exports = {
  addLicenseToFile: addLicenseToFile,
  addLicenseTextToFile: addLicenseTextToFile
};
{
  "ben": {
    "name": "Ben Lesh",
    "role": "Developer",
    "github": "https://github.com/benlesh",
    "picture": "https://avatars2.githubusercontent.com/u/1540597",
    "twitter": "https://twitter.com/BenLesh",
    "website": "http://www.benlesh.com",
    "group": "Core Team"
  },
  "paul": {
    "name": "Paul Taylor",
    "role": "Developer",
    "github": "https://github.com/trxcllnt",
    "picture": "https://avatars2.githubusercontent.com/u/178183",
    "twitter": "https://twitter.com/trxcllnt",
    "website": "http://graphistry.com",
    "group": "Core Team"
  },
  "oj": {
    "name": "OJ Kwon",
    "role": "Developer",
    "github": "https://github.com/kwonoj",
    "picture": "https://avatars1.githubusercontent.com/u/1210596",
    "twitter": "https://twitter.com/_ojkwon",
    "group": "Core Team"
  },
  "david": {
    "name": "David Driscoll",
    "role": "Developer",
    "github": "https://github.com/david-driscoll",
    "picture": "https://avatars0.githubusercontent.com/u/1269157",

```

```

    "twitter": "https://twitter.com/david_dotnet",
    "website": "http://david-driscoll.github.io",
    "group": "Core Team"
  },
  "tracy": {
    "name": "Tracy Lee",
    "role": "Developer",
    "github": "https://github.com/ladyleet",
    "picture": "https://avatars0.githubusercontent.com/u/8270563",
    "twitter": "https://twitter.com/ladyleet",
    "website": "http://thisdot.co",
    "group": "Core Team"
  },
  "nic": {
    "name": "Nicholas Jamieson",
    "group": "Core Team",
    "github": "https://github.com/cartant",
    "picture": "https://avatars0.githubusercontent.com/u/3878593",
    "twitter": "https://twitter.com/ncjamieson",
    "website": "http://cartant.com",
    "role": "Developer"
  },
  "tracy-lee": {
    "name": "Tracy Lee",
    "role": "Developer",
    "github": "https://github.com/ladyleet",
    "picture": "https://avatars0.githubusercontent.com/u/8270563",
    "twitter": "https://twitter.com/ladyleet",
    "website": "http://thisdot.co",
    "group": "Learning Team"
  },
  "ashwin": {
    "name": "Ashwin Sureshkumar",
    "role": "Developer",
    "github": "https://github.com/ashwin-sureshkumar",
    "picture": "https://avatars0.githubusercontent.com/u/4744080",
    "twitter": "https://twitter.com/Sureshkumar_Ash",
    "website": "https://t.co/XduklnxpK3",
    "group": "Learning Team"
  },
  "brian": {
    "name": "Brian Troncone",
    "role": "Developer",
    "github": "https://github.com/btroncone",
    "picture": "https://avatars3.githubusercontent.com/u/5085101",
    "twitter": "http://twitter.com/btroncone",
    "group": "Learning Team"
  },

```

```

"sumit": {
  "name": "Sumit Arora",
  "role": "Developer",
  "github": "https://github.com/sumitarora",
  "picture": "https://avatars3.githubusercontent.com/u/198247",
  "twitter": "https://twitter.com/arorasumit",
  "website": "http://www.arorasumit.com/",
  "group": "Learning Team"
},
"jen": {
  "name": "Jen Luker",
  "role": "Developer, A11y",
  "github": "https://github.com/knitcodemonkey",
  "picture": "https://avatars0.githubusercontent.com/u/1584489",
  "twitter": "https://twitter.com/knitcodemonkey",
  "website": "http://jenluker.com",
  "group": "Learning Team"
},
"jan": {
  "name": "Jan-Niklas Wortmann",
  "role": "Developer",
  "github": "https://github.com/JWO719",
  "picture": "https://avatars3.githubusercontent.com/u/6104311",
  "twitter": "https://twitter.com/niklas_wortmann",
  "group": "Learning Team"
},
"matthew": {
  "name": "Matthew Podwysoki",
  "role": "Developer",
  "github": "https://github.com/mattpodwysoki",
  "picture": "https://avatars0.githubusercontent.com/u/49051",
  "twitter": "https://twitter.com/mattpodwysoki",
  "group": "Alumn"
},
"andre": {
  "name": "Andr Staltz",
  "role": "Developer",
  "github": "https://github.com/staltz",
  "picture": "https://avatars0.githubusercontent.com/u/90512",
  "twitter": "https://twitter.com/andrestaltz",
  "website": "http://staltz.com",
  "group": "Alumn"
},
"nat": {
  "name": "Natalie Smith",
  "role": "Developer",
  "github": "https://github.com/natmegs",
  "picture": "https://avatars0.githubusercontent.com/u/19582796",

```

```

"twitter": "https://twitter.com/natalie_megan",
"website": "http://nataliesmith.ca/",
"group": "Contributors"
},
"cedric": {
"name": "Cdric Soulas",
"role": "Developer",
"github": "https://github.com/cedricss",
"picture": "https://avatars0.githubusercontent.com/u/802010",
"twitter": "https://twitter.com/CedricSoulas",
"website": "http://reactive.how/",
"group": "Contributors"
},
"jason": {
"name": "Jason Aden",
"role": "Developer",
"github": "https://github.com/jasonaden",
"picture": "https://avatars1.githubusercontent.com/u/516168",
"twitter": "https://twitter.com/jasonaden1",
"group": "Contributors"
}
}
}
@title
@description
The MIT License

```

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```

import { NgModule, Type } from '@angular/core';
import { CommonModule } from '@angular/common';
import { ContributorListComponent } from './contributor-list.component';

```

```

import { ContributorService } from './contributor.service';
import { ContributorComponent } from './contributor.component';
import { WithCustomElementComponent } from './element-registry';

@NgModule({
  imports: [CommonModule],
  declarations: [ContributorListComponent, ContributorComponent],
  entryComponents: [ContributorListComponent],
  providers: [ContributorService],
})
export class ContributorListModule implements WithCustomElementComponent {
  customElementComponent: Type<any> = ContributorListComponent;
}
export class ContributorGroup {
  name: string;
  order: number;
  contributors: Contributor[];
}

export class Contributor {
  group: string;
  name: string;
  picture?: string;
  website?: string;
  twitter?: string;
  github?: string;
  bio?: string;
  isFlipped? = false;
}
import { Component, Input } from '@angular/core';

import { Contributor } from './contributors.model';
import { CONTENT_URL_PREFIX } from 'app/documents/document.service';

@Component({
  selector: 'aio-contributor',
  template: `
    <div [ngClass]="{ 'flipped': person.isFlipped }" class="contributor-card">

      <div class="card-front">
        <h3>{{person.name}}</h3>

        <div class="contributor-image" [style.background-image]="url('+(person.picture || noPicture)+')">
          <div class="contributor-info">
            <a *ngIf="person.bio" mat-button>
              View Bio
            </a>
            <a *ngIf="person.twitter" mat-button class="icon"

```

```

        href="{{person.twitter}}" target="_blank" (click)="$event.stopPropagation()">
        <span class="fa fa-twitter fa-2x"></span>
    </a>
    <a *ngIf="person.github" mat-button class="icon"
        href="{{person.github}}" target="_blank" (click)="$event.stopPropagation()">
        <span class="fa fa-github fa-2x"></span>
    </a>
    <a *ngIf="person.website" mat-button class="icon"
        href="{{person.website}}" target="_blank" (click)="$event.stopPropagation()">
        <span class="fa fa-link fa-2x"></span>
    </a>
</div>
</div>
</div>

<div class="card-back" *ngIf="person.isFlipped" (click)="flipCard(person)">
    <h3>{{person.name}}</h3>
    <p class="contributor-bio">{{person.bio}}</p>
</div>
</div>
`
})
export class ContributorComponent {
    @Input() person: Contributor;
    noPicture = '_no-one.png';
    pictureBase = CONTENT_URL_PREFIX + 'images/bios/';

    flipCard(person: Contributor) {
        person.isFlipped = !person.isFlipped;
    }
}
import { ReflectiveInjector } from '@angular/core';

import { of } from 'rxjs';

import { ContributorGroup } from './contributors.model';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { LocationService } from 'app/shared/location.service';

// Testing the component class behaviors, independent of its template
// Let e2e tests verify how it displays.
describe('ContributorListComponent', () => {

    let component: ContributorListComponent;
    let injector: ReflectiveInjector;
    let contributorService: TestContributorService;
    let locationService: TestLocationService;

```

```

let contributorGroups: ContributorGroup[];

beforeEach(() => {
  injector = ReflectiveInjector.resolveAndCreate([
    ContributorListComponent,
    {provide: ContributorService, useClass: TestContributorService },
    {provide: LocationService, useClass: TestLocationService }
  ]);

  locationService = injector.get(LocationService);
  contributorService = injector.get(ContributorService);
  contributorGroups = contributorService.testContributors;
});

it('should select the first group when no query string', () => {
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[0]);
});

it('should select the first group when query string w/o "group" property', () => {
  locationService.searchResult = { foo: 'GDE' };
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[0]);
});

it('should select the first group when query group not found', () => {
  locationService.searchResult = { group: 'foo' };
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[0]);
});

it('should select the GDE group when query group is "GDE"', () => {
  locationService.searchResult = { group: 'GDE' };
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[1]);
});

it('should select the GDE group when query group is "gde" (case insensitive)', () => {
  locationService.searchResult = { group: 'gde' };
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[1]);
});

it('should set the query to the "GDE" group when user selects "GDE"', () => {
  component = getComponent();
  component.selectGroup('GDE');
  expect(locationService.searchResult['group']).toBe('GDE');
});

```

```

it('should set the query to the first group when user selects unknown name', () => {
  component = getComponent();
  component.selectGroup('GDE'); // a legit group that isn't the first

  component.selectGroup('foo'); // not a legit group name
  expect(locationService.searchResult['group']).toBe('Angular');
});

//// Test Helpers ////
function getComponent(): ContributorListComponent {
  const comp = injector.get(ContributorListComponent);
  comp.ngOnInit();
  return comp;
}

interface SearchResult { [index: string]: string; };

class TestLocationService {
  searchResult: SearchResult = {};
  search = jasmine.createSpy('search').and.callFake(() => this.searchResult);
  setSearch = jasmine.createSpy('setSearch')
    .and.callFake((label: string, result: SearchResult) => {
      this.searchResult = result;
    });
}

class TestContributorService {
  testContributors = getTestData();
  contributors = of(this.testContributors);
}

function getTestData(): ContributorGroup[] {
  return [
    // Not interested in the contributors data in these tests
    { name: 'Angular', order: 0, contributors: [] },
    { name: 'GDE', order: 1, contributors: [] },
  ];
}

import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';

import { ConnectableObservable, Observable } from 'rxjs';
import { map, publishLast } from 'rxjs/operators';

import { Contributor, ContributorGroup } from './contributors.model';

```



```

// TODO(andrewjs): Look into changing this so that we don't import the service just to get the const
import { CONTENT_URL_PREFIX } from 'app/documents/document.service';

const contributorsPath = CONTENT_URL_PREFIX + 'contributors.json';
const knownGroups = ['Core Team', 'Learning Team', 'Alumn', 'Contributors'];

@Injectable()
export class ContributorService {
  contributors: Observable<ContributorGroup[]>;

  constructor(private http: HttpClient) {
    this.contributors = this.getContributors();
  }

  private getContributors() {
    const contributors = this.http.get<{[key: string]: Contributor}>(contributorsPath).pipe(
      // Create group map
      map(contribs => {
        const contribMap: { [name: string]: Contributor[] } = {};
        Object.keys(contribs).forEach(key => {
          const contributor = contribs[key];
          const group = contributor.group;
          const contribGroup = contribMap[group];
          if (contribGroup) {
            contribGroup.push(contributor);
          } else {
            contribMap[group] = [contributor];
          }
        });
      }),

      return contribMap;
    ),

    // Flatten group map into sorted group array of sorted contributors
    map(cmap => {
      return Object.keys(cmap).map(key => {
        const order = knownGroups.indexOf(key);
        return {
          name: key,
          order: order === -1 ? knownGroups.length : order,
          contributors: cmap[key].sort(compareContributors)
        } as ContributorGroup;
      })
      .sort(compareGroups);
    }),

    publishLast(),
  );
}

```

```

    (contributors as ConnectableObservable<ContributorGroup[]>).connect();
    return contributors;
  }
}

function compareContributors(l: Contributor, r: Contributor) {
return l.name.toUpperCase() > r.name.toUpperCase() ? 1 : -1;
}

function compareGroups(l: ContributorGroup, r: ContributorGroup) {
return l.order === r.order ?
  (l.name > r.name ? 1 : -1) :
  l.order > r.order ? 1 : -1;
}

import { Component, OnInit } from '@angular/core';
import { ContributorGroup } from './contributors.model';
import { ContributorService } from './contributor.service';
import { LocationService } from 'app/shared/location.service';

@Component({
  selector: `aio-contributor-list`,
  template: `
<div class="flex-center group-buttons">
  <a *ngFor="let name of groupNames"
    [class.selected]="name == selectedGroup.name"
    class="button mat-button filter-button"
    (click)="selectGroup(name)">{{ name }}</a>
</div>
<section *ngIf="selectedGroup" class="grid-fluid">
  <div class="contributor-group">
    <aio-contributor *ngFor="let person of selectedGroup.contributors" [person]="person"></aio-contributor>
  </div>
</section>
`
})
export class ContributorListComponent implements OnInit {
  private groups: ContributorGroup[];
  groupNames: string[];
  selectedGroup: ContributorGroup;

  constructor(
    private contributorService: ContributorService,
    private locationService: LocationService) { }

  ngOnInit() {
    const groupName = this.locationService.search()['group'] || '';
    // no need to unsubscribe because `contributors` completes
    this.contributorService.contributors

```

```

.subscribe(grps => {
  this.groups = grps;
  this.groupNames = grps.map(g => g.name);
  this.selectGroup(groupName);
});
}

selectGroup(name: string) {
  name = name.toLowerCase();
  this.selectedGroup = this.groups.find(g => g.name.toLowerCase() === name) || this.groups[0];
  this.locationService.setSearch("", {group: this.selectedGroup.name});
}
}

import { HttpClientTestingModule, HttpTestingController } from '@angular/common/http/testing';
import { Injector } from '@angular/core';
import { TestBed } from '@angular/core/testing';

import { ContributorService } from './contributor.service';
import { ContributorGroup } from './contributors.model';

describe('ContributorService', () => {

  let injector: Injector;
  let contribService: ContributorService;
  let httpMock: HttpTestingController;

  beforeEach(() => {
    injector = TestBed.configureTestingModule({
      imports: [HttpClientTestingModule],
      providers: [
        ContributorService
      ]
    });
  });

  contribService = injector.get(ContributorService);
  httpMock = injector.get(HttpTestingController);
});

afterEach(() => httpMock.verify());

it('should make a single connection to the server', () => {
  const req = httpMock.expectOne({});
  expect(req.request.url).toBe('generated/contributors.json');
});

describe('#contributors', () => {

  let contribs: ContributorGroup[];

```

```

let testData: any;

beforeEach(() => {
  testData = getTestContribs();
  httpMock.expectOne({}).flush(testData);
  contribService.contributors.subscribe(results => contribs = results);
});

it('contributors observable should complete', () => {
  let completed = false;
  contribService.contributors.subscribe(undefined, undefined, () => completed = true);
  expect(completed).toBe(true, 'observable completed');
});

it('should reshape the contributor json to expected result', () => {
  const groupNames = contribs.map(g => g.name).join(',');
  expect(groupNames).toEqual('Angular,GDE');
});

it('should have expected "GDE" contribs in order', () => {
  const gde = contribs[1];
  const actualAngularNames = gde.contributors.map(l => l.name).join(',');
  const expectedAngularNames = [testData.jeffcross, testData.kapunahewong].map(l => l.name).join(',');
  expect(actualAngularNames).toEqual(expectedAngularNames);
});

it('should do WHAT(?) if the request fails');
});

function getTestContribs() {
  return {
    kapunahewong: {
      name: 'Kapunahele Wong',
      picture: 'kapunahewong.jpg',
      website: 'https://github.com/kapunahewong',
      twitter: 'kapunahele',
      bio: 'Kapunahele is a front-end developer and contributor to angular.io',
      group: 'GDE'
    },
    misko: {
      name: 'Miko Hevery',
      picture: 'misko.jpg',
      twitter: 'mhevery',
      website: 'http://misko.hevery.com',
      bio: 'Miko Hevery is the creator of AngularJS framework.',
      group: 'Angular'
    },
  },
}

```

```

igor: {
  name: 'Igor Minar',
  picture: 'igor-minar.jpg',
  twitter: 'IgorMinar',
  website: 'https://google.com/+IgorMinar',
  bio: 'Igor is a software engineer at Angular.',
  group: 'Angular'
},
kara: {
  name: 'Kara Erickson',
  picture: 'kara-erickson.jpg',
  twitter: 'karaforthewin',
  website: 'https://github.com/kara',
  bio: 'Kara is a software engineer on the Angular team at Angular and a co-organizer of the Angular-SF Meetup. ',
  group: 'Angular'
},
jeffcross: {
  name: 'Jeff Cross',
  picture: 'jeff-cross.jpg',
  twitter: 'jeffbcross',
  website: 'https://twitter.com/jeffbcross',
  bio: 'Jeff was one of the earliest core team members on AngularJS.',
  group: 'GDE'
},
naomi: {
  name: 'Naomi Black',
  picture: 'naomi.jpg',
  twitter: 'naomitraveller',
  website: 'http://google.com/+NaomiBlack',
  bio: 'Naomi is Angular\'s TPM generalist and jack-of-all-trades.',
  group: 'Angular'
}
};
}
PNG

```

```

IHDRpw<ogZIDATx [B@p+j(D!
Q@(D!
h9@]4vmmjke5g\dl5{|nKW.??;w<G_/M0i%0`zLDTM@dr0xV!qKJ0{D|d?^>jg.[7q=H@7xeXS
KxR:uB Dez#89|c?,J{?n7,x@bSD{ }?z6@3b~?,:O0>};}W]$ TIz*~;3v>#CnhAI6 ;!?!&b~c2
$hIv0-6OK;g$B(W.`H,-`;;o03`F,zt}O$PH7bn_`0dvD`b3xRD|#aGtD$,{h.}.$PHE1c8|"&uL1.EF!WpH$Pj8s/4yfu"
Jw@!PHB'3ZQ;0?voQ$ tm-t\b? '=8
a{Yt@!PH.'~gV#mx7YkWC<656
?iy
2y0\3}RS@!$bL:5~L!Nin*lv}q:
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## 1.66 serve-favicon 2.4.5

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## 1.67 socket.io 2.0.4

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## 1.68 sortablejs 1.7.0

## 1.69 sweet-data 0.1.4

## 1.70 throw.js 3.0.1

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## 1.71 time-ago-pipe 1.2.1

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## 1.72 traverse 0.6.6

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## 1.73 typescript 2.3.3

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```

import model = require("./greeter")
    ~~~~~
!!! error TS2307: Cannot find module './greeter'.
var el = document.getElementById('content');
    ~~~~~
!!! error TS2304: Cannot find name 'document'.
var greeter = new model.Greeter(el);
/** things */
greeter.start();
//// [copyrightWithNewLine1.ts]
/*****
* (c) Copyright - Important
*****/

```

```

import model = require("./greeter")
var el = document.getElementById('content');
var greeter = new model.Greeter(el);
/** things */
greeter.start();

```

```

//// [copyrightWithNewLine1.js]
/*****
* (c) Copyright - Important
*****/

```

```

define(["require", "exports", "./greeter"], function (require, exports, model) {
    "use strict";
    exports.__esModule = true;
    var el = document.getElementById('content');
    var greeter = new model.Greeter(el);
    /** things */
    greeter.start();
});

```

tests/cases/compiler/copyrightWithoutNewLine1.ts(4,24): error TS2307: Cannot find module './greeter'.

tests/cases/compiler/copyrightWithoutNewLine1.ts(5,10): error TS2304: Cannot find name 'document'.

==== tests/cases/compiler/copyrightWithoutNewLine1.ts (2 errors) ====

```

/*****
* (c) Copyright - Important
*****/

```

```

import model = require("./greeter")
    ~~~~~
!!! error TS2307: Cannot find module './greeter'.
var el = document.getElementById('content');
    ~~~~~
!!! error TS2304: Cannot find name 'document'.
var greeter = new model.Greeter(el);
/** things */

```

```

    greeter.start();
    /// [copyrightWithoutNewLine1.ts]
    /**
     * (c) Copyright - Important
     */
    import model = require("./greeter")
    var el = document.getElementById('content');
    var greeter = new model.Greeter(el);
    /** things */
    greeter.start();

    /// [copyrightWithoutNewLine1.js]
    define(["require", "exports", "./greeter"], function (require, exports, model) {
        "use strict";
        exports.__esModule = true;
        var el = document.getElementById('content');
        var greeter = new model.Greeter(el);
        /** things */
        greeter.start();
    });
    // @module: amd
    /**
     * (c) Copyright - Important
     */

    import model = require("./greeter")
    var el = document.getElementById('content');
    var greeter = new model.Greeter(el);
    /** things */
    greeter.start();
    // @module: amd
    /**
     * (c) Copyright - Important
     */
    import model = require("./greeter")
    var el = document.getElementById('content');
    var greeter = new model.Greeter(el);
    /** things */
    greeter.start();
    /*!
    */

```

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## 1.76 uuid 3.1.0

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## 1.77 winston 2.4.0

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## 1.78 xml-parse-from-string 1.0.1

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## 1.79 zone.js 0.8.18

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