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ReactiveX / **rxjs**

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A reactive programming library for JavaScript   http://reactivex.io/rxjs

3,204 commits   **7** branches   **99** releases   **238** contributors   Apache-2.0

Branch: **master** ▾   New pull request   Find file

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shaunlebron and benlesh docs(intro): fix operators links (#3863)
Latest commit 01a0978 Jun 28, 2018

📁 .github	chore(github): don't comment on locked issues (#3804)	Jun 7, 2018
📁 compat	chore(publish): 6.2.1	Jun 12, 2018
📁 doc	docs(intro): fix operators links (#3863)	Jun 28, 2018
📁 docs_app	docs(*): fix broken cross-reference doc links and missing marble diag…	Jun 21, 2018
📁 integration/systemjs	refactor(webSocket): rename back to webSocket ala 5.0 (#3590)	Apr 20, 2018
📁 legacy-reexport	feat(compat): add Observable extension classes with static create()	Apr 6, 2018
📁 migrations	fix(migrations): change the version the migration applies to (#3564)	Apr 13, 2018
📁 node-tests	fix(node): Subscriber no longer trampled if from another copy of rxjs	Mar 26, 2018
📁 perf	fix(lint_perf): fix lint issues with newer perf tests	Mar 30, 2018
📁 spec	fix(fromEvent): Support React Native and node-compatible event source…	Jun 11, 2018
📁 src	Wrap Date.now in arrow fn and drop existance check (#3851)	Jun 22, 2018
📁 tools	build(docs): remove yarn (#3776)	Jun 4, 2018
📁 tsconfig	perf: remove comments from js-files (#3760)	Jun 4, 2018
📄 .dependency-cruiser.json	fix(compat): deprecate Observable.if/throw (#3527)	Apr 5, 2018
📄 .editorconfig	Add .editorconfig, reindent some files with spaces	Jul 19, 2015
📄 .eslintrc	chore(package.json): update package dependencies	Jan 29, 2016

📄 .gitattributes	refactor(typings): updated typings to support symbol observables and…	Feb 20, 2018
📄 .gitignore	refactor(compat): make build and tests pass	Mar 15, 2018
📄 .jshintrc	finally add jshint	Apr 9, 2015
📄 .make-compat-package.js	fix(sourcemaps): fix mappings for source maps so they will work (#3523)	Apr 7, 2018
📄 .make-helpers.js	fix(sourcemaps): fix mappings for source maps so they will work (#3523)	Apr 7, 2018
📄 .make-packages.js	refactor(webSocket): rename back to webSocket ala 5.0 (#3590)	Apr 20, 2018
📄 .markdown-doctest-setup.js	refactor(test): updated test helpers to be strongly typed (#3265)	Feb 14, 2018
📄 .npmignore	build(docs): remove docs app from published node modules (#3777)	Jun 4, 2018
📄 .travis.yml	chore(test): enable TS_NODE_TYPE_CHECK (#3822)	Jun 11, 2018
📄 CHANGELOG.md	chore(publish): 6.2.1	Jun 12, 2018
📄 CODE_OF_CONDUCT.md	chore(CodeOfConduct): Update Code of Conduct (#3148)	Dec 1, 2017
📄 CONTRIBUTING.md	docs(contribution): describe briefly new documentation (#3778)	Jun 7, 2018
📄 LICENSE.txt	chore(license): Updated year range to 2018 (#3207)	Jan 8, 2018
📄 MAINTAINERS	chore(MAINTAINERS): fix user names	Jul 5, 2016
📄 MIGRATION.md	docs(content): add migration guide (#3781)	Jun 4, 2018
📄 README.md	docs(README): Update link to migration document,	Jun 5, 2018
📄 appveyor.yml	build(package): bump npm on ci	May 8, 2018
📄 dangerfile.js	feat(umd): UMD now mirrors export schema for ESM and CJS (#3426)	Mar 13, 2018
📄 esdoc.json	docs(esdoc.json): related to #1871, Rx.umd.js is now just Rx.js (#1878)	Aug 12, 2016
📄 index.js	feat(package): rxjs distribution now supports main, module and es2015…	Sep 17, 2017
📄 package-lock.json	chore(test): enable TS_NODE_TYPE_CHECK (#3822)	Jun 11, 2018
📄 package.json	chore(publish): 6.2.1	Jun 12, 2018
📄 protractor.conf.js	fix(benchpress): update benchpress dependencies and config	Oct 5, 2015
📄 publish.sh	chore(publish.sh): update publish script to disallow publishing master	Jan 12, 2018
📄 publish_docs.sh	style(docs): improve readability of publish_docs (#2015)	Oct 24, 2016
📄 tsconfig.base.json	perf: remove comments from js-files (#3760)	Jun 4, 2018
📄 tsconfig.json	refactor(compat): make build and tests pass	Mar 15, 2018
📄 tsconfig.vscode.json	New Documentation (#3763)	May 31, 2018
📄 tslint.json	refactor(types): change AnonymousSubscription & ISubscription to Unsu…	Feb 22, 2018
📄 wallaby.js	chore(package): update test scripts	Oct 25, 2017

📖 **README.md**

RxJS: Reactive Extensions For JavaScript

`build passing` `coverage 97%` `npm package 6.2.1` `gitter join chat`

RxJS 6 Stable

MIGRATION AND RELEASE INFORMATION:

Find out how up update to v6,**automatically update your TypeScript code**, and more!

- Current home is MIGRATION.md

FOR V 5.X PLEASE GO TO THE 5.0 BRANCH

Reactive Extensions Library for JavaScript. This is a rewrite of Reactive-Extensions/RxJS and is the latest production-ready version of RxJS. This rewrite is meant to have better performance, better modularity, better debuggable call stacks, while staying mostly backwards compatible, with some breaking changes that reduce the API surface.

Apache 2.0 License

- Code of Conduct
- Contribution Guidelines
- Maintainer Guidelines
- Creating Operators
- API Documentation (WIP)

Versions In This Repository

- master - This all of the current, unreleased work, which is against v6 of RxJS right now
- stable - This is the branch for the latest version you'd get if you do `npm install rxjs`

Important

By contributing or commenting on issues in this repository, whether you've read them or not, you're agreeing to the Contributor Code of Conduct. Much like traffic laws, ignorance doesn't grant you immunity.

Installation and Usage

ES6 via npm

```
npm install rxjs
```

To import only what you need by patching (this is useful for size-sensitive bundling):

```
import { Observable, Subject, ReplaySubject, from, of, range } from 'rxjs';
import { map, filter, switchMap } from 'rxjs/operators';

range(1, 200)
  .pipe(filter(x => x % 2 === 1), map(x => x + x))
  .subscribe(x => console.log(x));
```

Alternatively, you can use the built-in `pipe` method on Observables. See pipeable operators for more information.

CommonJS via npm

To install this library for CommonJS (CJS) usage, use the following command:

```
npm install rxjs
```

(Note: destructuring available in Node 8+)

```
const { Observable, Subject, ReplaySubject, from, of, range } = require('rxjs');
const { map, filter, switchMap } = require('rxjs/operators');

range(1, 200)
  .pipe(filter(x => x % 2 === 1), map(x => x + x))
  .subscribe(x => console.log(x));
```

CDN

For CDN, you can use unpkg:

https://unpkg.com/rxjs/bundles/rxjs.umd.min.js

The global namespace for rxjs is `rxjs` :

```
const { Observable, Subject, ReplaySubject, from, of, range } = rxjs;
const { map, filter, switchMap } = rxjs.operators;

range(1, 200)
  .pipe(filter(x => x % 2 === 1), map(x => x + x))
  .subscribe(x => console.log(x));
```

Goals

- Smaller overall bundles sizes
- Provide better performance than preceding versions of RxJS
- To model/follow the Observable Spec Proposal to the observable.
- Provide more modular file structure in a variety of formats
- Provide more debuggable call stacks than preceding versions of RxJS

Building/Testing

- `npm run build_all` - builds everything
- `npm test` - runs tests

`npm run info` will list available scripts (there are a lot LOL)

Performance Tests

Run `npm run build_perf` or `npm run perf` to run the performance tests with `protractor` .

Run `npm run perf_micro [operator]` to run micro performance test benchmarking operator.

Adding documentation

RxNext uses ESDoc to generate API documentation. Refer to ESDoc's documentation for syntax. Run `npm run build_docs` to generate.

At the moment we are trying to improve the documentation. For this purpose the Documentation is in a seperate GitHub Repostory. For a quick instruction take a look at the documentation guidelines. We are really happy about any type of contributions!

Generating PNG marble diagrams

The script `npm run tests2png` requires some native packages installed locally: `imagemagick` , `graphicsmagick` , and `ghostscript` .

For Mac OS X with Homebrew:

- `brew install imagemagick`
- `brew install graphicsmagick`
- `brew install ghostscript`
- You may need to install the Ghostscript fonts manually:
  - Download the tarball from the gs-fonts project
  - `mkdir -p /usr/local/share/ghostscript && tar zxvf /path/to/ghostscript-fonts.tar.gz -C /usr/local/share/ghostscript`

For Debian Linux:

- `sudo add-apt-repository ppa:dhor/myway`
- `apt-get install imagemagick`
- `apt-get install graphicsmagick`
- `apt-get install ghostscript`

For Windows and other Operating Systems, check the download instructions here:

- http://imagemagick.org
- http://www.graphicsmagick.org
- http://www.ghostscript.com/

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