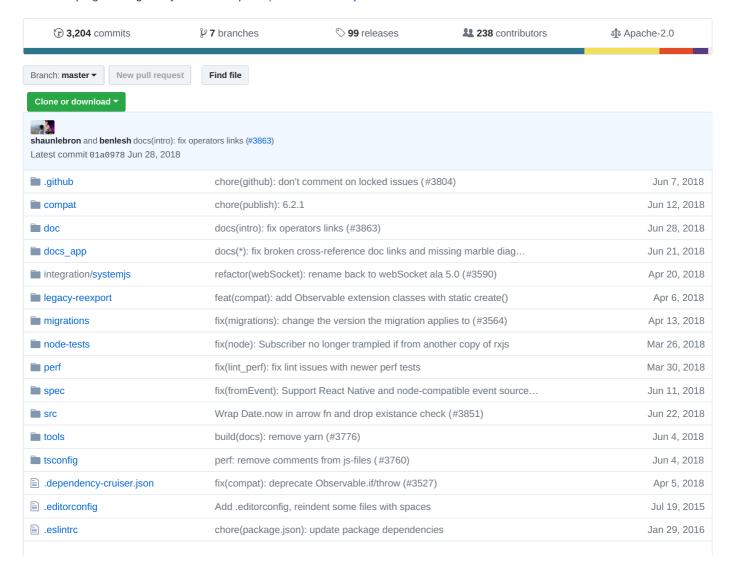
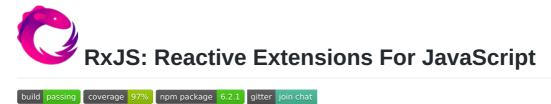


A reactive programming library for JavaScript http://reactivex.io/rxjs



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	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 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 ofReactive-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. Seepipeable 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 seperateGitHub Repostory. For a quick instruction take a look at thedocumentation 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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