

Reactive Programming with RxJS

What is Rx?



"The Observer pattern done right - ReactiveX is a combination of the best ideas from the Observer pattern, the Iterator pattern, and functional programming"
- *from reactivex.io*

JavaScript, Java, .NET, Swift, and many more

What is RxJS?

RxJS 5

Better performance

Better debugging

Compliance with the ES Observable Spec

Reactive Programming

Observables

Observer & Iterator Demos

Observables =
Observer + Iterator

Observables

Emits values in order like an Iterator

Push instead of pull

Observable ~ Observer's Producer

Observer ~ Observer's Listeners

Demos

Hot and Cold Observables

Unit Testing

Resources



ReactiveX

An API for asynchronous programming
with observable streams

Choose your platform

RxMarbles

Interactive diagrams of Rx Observables

TRANSFORMING OPERATORS

[delay](#)

[delayWithSelector](#)

[findIndex](#)

[map](#)

[scan](#)

[debounce](#)

[debounceWithSelector](#)

COMBINING OPERATORS

[combineLatest](#)

[concat](#)

[merge](#)

[sample](#)

[startWith](#)

[withLatestFrom](#)

[zip](#)

FILTERING OPERATORS

[distinct](#)

[distinctUntilChanged](#)

[elementAt](#)



delay



The
Pragmatic
Programmers

Reactive Programming with RxJS

Untangle Your
Asynchronous
JavaScript Code



Sergi Mansilla
edited by Rebecca Gulick

staltz / [introrx.md](#)

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<script src="https://gist."



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The introduction to Reactive Programming you've been missing

<> [introrx.md](#)

Raw

The introduction to Reactive Programming you've been missing

(by [@andrestaltz](#))

This tutorial as a series of videos

If you prefer to watch video tutorials with live-coding, then check out this series I recorded with the same contents as in this article: [Egghead.io - Introduction to Reactive Programming](#).



"The Reactive Extensions for JavaScript (RxJS) is a set of libraries for composing asynchronous and event-based programs using observable sequences and fluent query operators that many of you already know by `Array#extras` in JavaScript. Using RxJS, developers represent asynchronous data streams with Observables, query asynchronous data streams using our many operators, and parameterize the concurrency in the asynchronous data streams using Schedulers. Simply put, RxJS = Observables + Operators + Schedulers."

-
Brand new to RxJS and reactive programming? Check out [this series](#) of lessons from Jafar Husain.

RXJS COURSES

5 total courses



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Cycle.js is a framework where your app is described as a simple function taking an event stream as input and outputting an even...



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Introduction to Reactive Programming



"Reactive" You've probably been hearing this word recently. Reactive Programming has you curious, and you want



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RxJS Beyond the Basics: Operators in Depth



Operators are the core building blocks for reacting to data in your JavaScript applications. In this course you will learn wha...

Anything by Matthew Podwysocki,
Ben Lesh, Andre Staltz, Rob Wormald

Thanks!

James Churchill

Twitter: @SmashDev

GitHub: smashdevcode

<https://github.com/smashdevcode/seattle-code-camp-2016>