

RXJS



THE REACTIVE EXTENSIONS FOR JAVASCRIPT

VALUE SOURCES

	Single	Multiple
Synchronous	Function	Iterable Enumerable
Asynchronous	Promise	Rx.Observable

OPERATORS

(1/4)

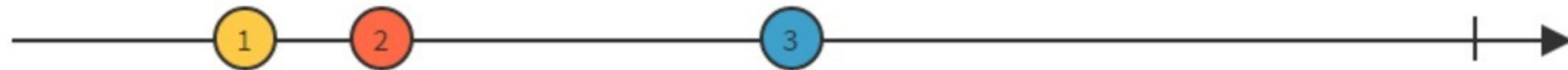


`filter(x => x > 10)`

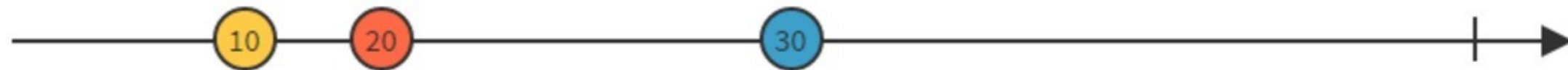


OPERATORS

(2/4)



`map(x => 10 * x)`



OPERATORS

(3/4)



```
combineLatest((x, y) => "" + x + y)
```



OPERATORS

(4/4)

TRANSFORMING OPERATORS

delay
delayWithSelector
findIndex
map
scan
debounce
debounceWithSelector

COMBINING OPERATORS

combineLatest
concat
merge
sample
startWith
withLatestFrom
zip

FILTERING OPERATORS

distinct
distinctUntilChanged
elementAt
filter
find
first
last
pausable
pausableBuffered
skip
skipLast
skipUntil
take
takeLast
takeUntil

MATHEMATICAL OPERATORS

average
count
max
min
reduce
sum

BOOLEAN OPERATORS

every
some
includes
sequenceEqual

CONDITIONAL OPERATORS

amb

Total: 178 operators

USES

DATA STREAMING

- À la *Apache Spark*
- One-by-one transformation
- Bulk operations (*window*)

USES

REAL-TIME MATH

- Built-in operators
- Automatic dependencies

USES

USER INTERFACE

- Angular 2
- React & Flux
- Vue.js

COMPATIBILITY

- Most UI frameworks
- DOM events
- Promises
- Node.js callbacks
- Socket.io
- ...

CASE STUDY

AUTOCOMPLETE



google |



google **io extended 2016**

Supprimer

google **tasks**

Supprimer

google **fonts**

google **traduction**

google **translate**

google **map**

google **docs**

google **drive**

google **analytics**

google **calendar**

Recherche Google

J'ai de la chance

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CASE STUDY

AUTOCOMPLETE

- Multiple requests
- Asynchronous callbacks
- Out-of-order responses
- ...



CASE STUDY

AUTOCOMPLETE

```
Rx.Observable.fromEvent(input, 'keyup')  
  .map(e => e.target.value)  
  .filter(input => input.length > 3)  
  .debounce(250)  
  .distinctUntilChanged()  
  .flatMapLatest(input => searchAsync(input).retry(3))  
  .subscribe(showResults)
```


TL; DR

RXJS IS GOOD FOR YOUR CODE

- Concise
- Readable & maintainable
- Efficient
- Favors standards (ES 7)
- Compatible with everything
- Used more and more
- Supported by Microsoft
- Has a huge community
- Lots of Stack Overflow answers