



# Reactive Angular met RxJS

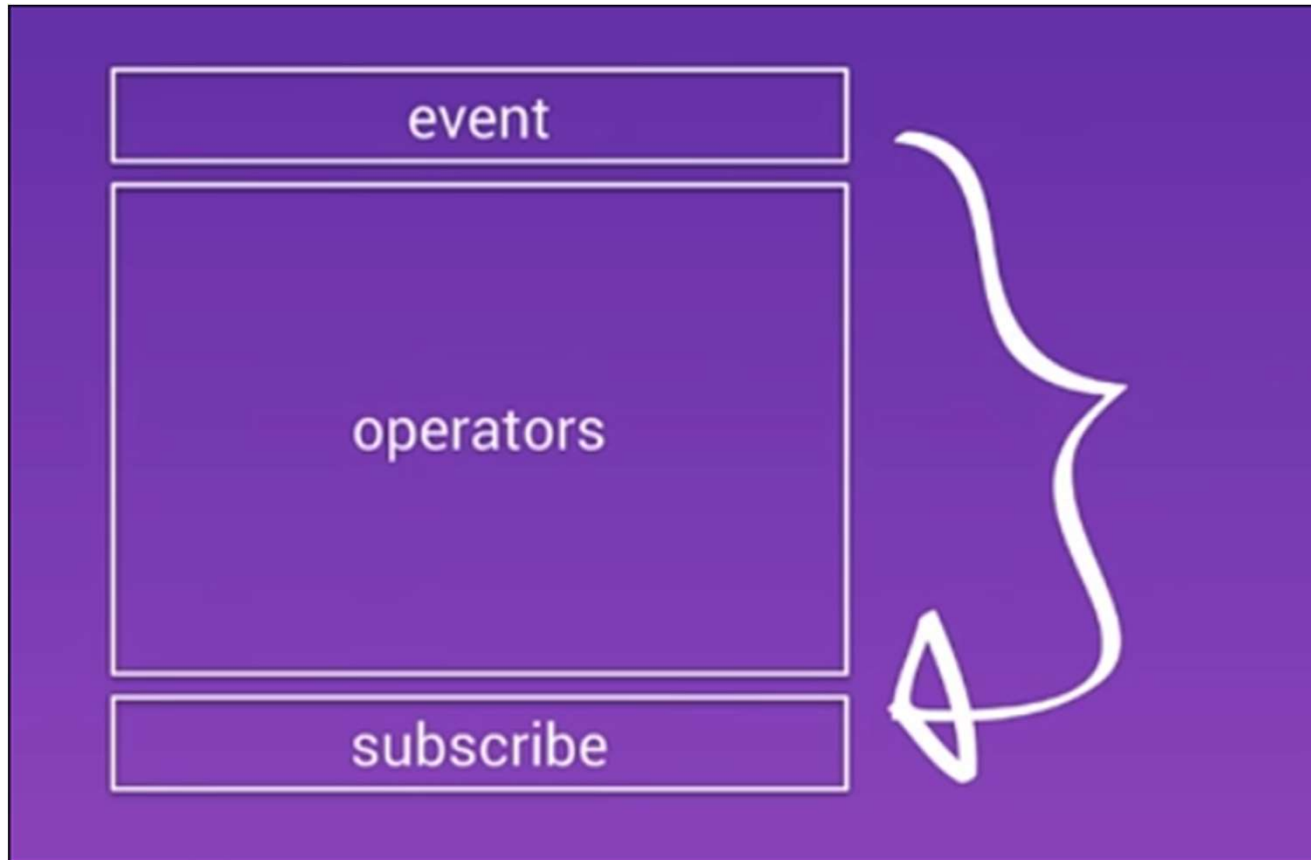
## Short recap

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# Day 1

- Introduction to the **Observable design pattern**
- Creating observables **from scratch**
- Using observables for **Http** communication, **Live API's**
- `async pipe`
- Pipeline & operators
  - `map,`
  - `delay`
  - `switchMap`
  - `tap`
  - `debounceTime`
  - `merge, concat, ...`

# Subscribe to events – or let `async` handle that



# Multiple RxJS-operators in Action

## 1. Basic streams

[Basic streams](#) | [Multiple streams](#) | [Drag & Drop](#) | [Typeahead demo](#) |

## 2. Operators

[map\(\)](#) | [filter\(\)](#) | [scan\(\)](#) | [concat\(\)](#) | [merge\(\)](#) | [mergeMap\(\)](#) | [forkJoin\(\)](#) | [Movie App](#) | [Movie App 2](#) | [Movie App 3](#) |

Basic stream: we subscribe to chars coming from the textbox:

Text as a stream

Type some text above...

Right Mario is moved by observable streams from the button click.



<https://github.com/PeterKassenaar/ng-rxjs-operators>

# Today

- [for starters: Demystifying observables – Andre Staltz
  - Creating your own/custom operators]
- *State Management* Design pattern
- Store concepts & terminology
- `@ngrx/store` – Working with:
  - Actions & dispatchers
  - Reducers
  - `HttpClient` and Stores
  - Store DevTools
  - Store Effects
  - Store Feature Modules



# Some extra stuff


# Creating Observables from scratch

## - André Staltz

André Staltz (@andrestaltz): You will learn RxJS at ng-europe 2016

```
1 function nextCallback(data) {  
2   console.log(data);  
3 }  
4 function errorCallback(err) {  
5 }  
6 function completeCallback() {  
7 }  
8  
9 function giveMeSomeData(nextCB, err) {  
10  document.addEventListener('click')  
11 }  
12  
13 giveMeSomeData(  
14   nextCallback,  
15   errorCallback,  
16   completeCallback  
17 );
```

addEventListener(  
 type: "MSContentZoom",  
 listener: (this: Document, ev:  
 UIEvent) => any  
 , useCapture?: boolean): void



ng-europe.org

RANGLE.IO  
REWRITING THE WEB

5:11 / 22:44

<https://www.youtube.com/watch?v=uQ1zhJHclvs>

# Creating your own operators

## Creating Custom Operators in RxJS



Netanel Basal

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Feb 4, 2020 · 5 min read



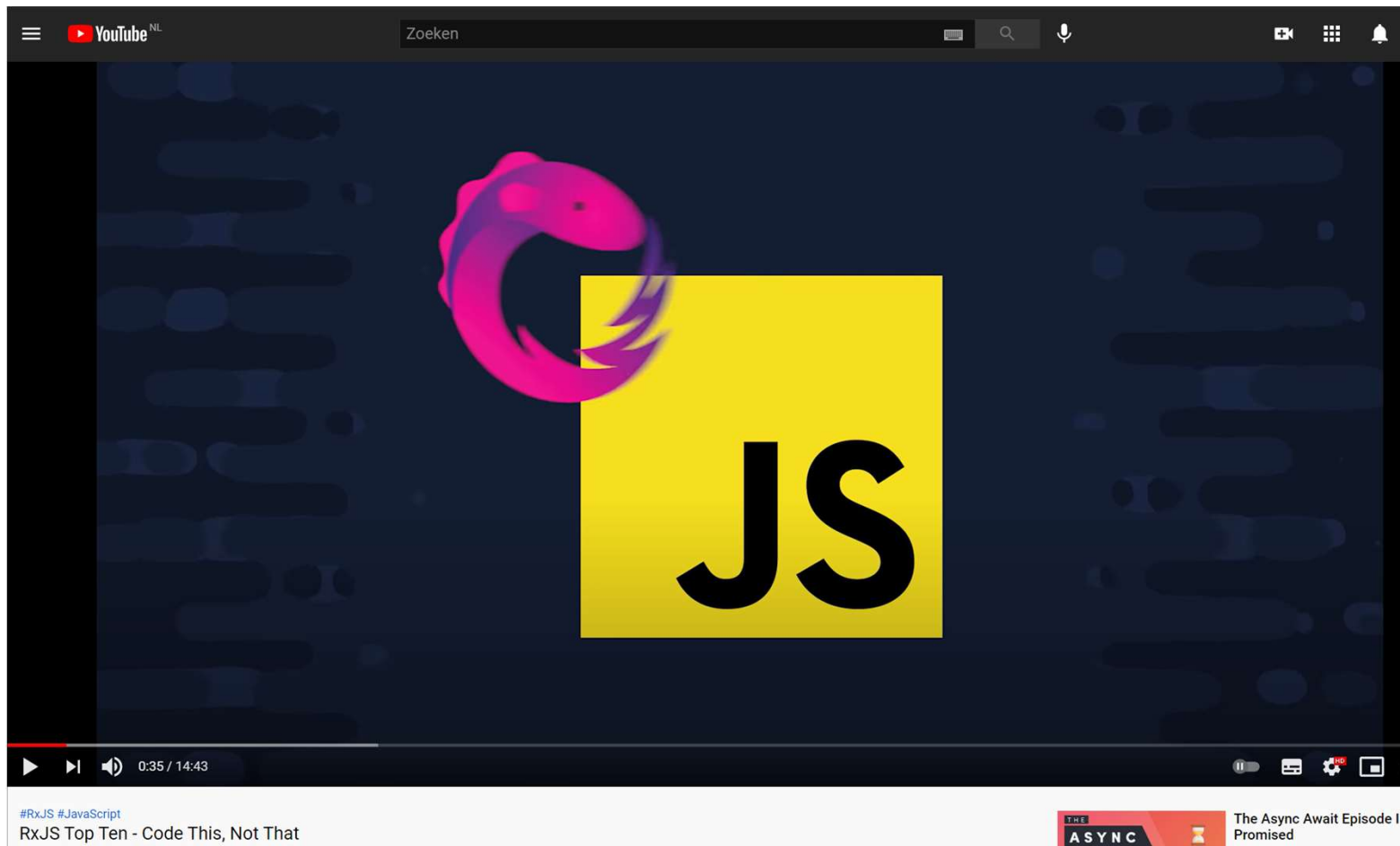
Operators are one of the building blocks of RxJS. The library comes with many operators, which can be used to deal with almost every situation we

<https://netbasal.com/creating-custom-operators-in-rxjs-32f052d69457>



# RxJS Top 10 concepts

- *A lot is now familiar* – but just as a reminder/refresher and from a different point of view:



<https://www.youtube.com/watch?v=ewcoEYS85Co>



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# Tomorrow

- Angular – Routing w/ multiple modules
  - Lazy loading
- Building a Custom store
- Change Detection
- Store - Case
- ...
- If possible – finish a little bit early