



Global Knowledge®

# Angular Advanced Short recap day #2

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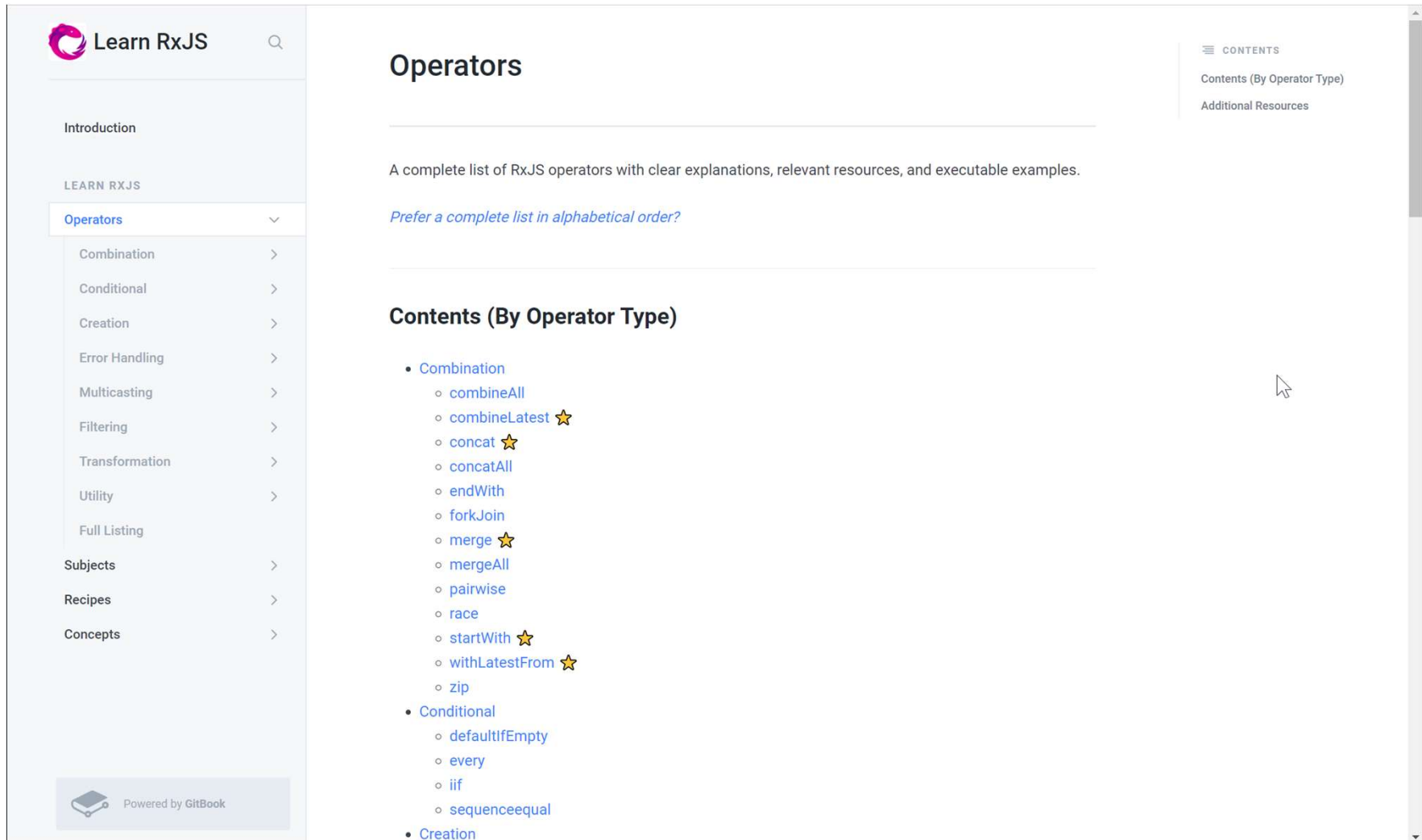
## WORLDWIDE LOCATIONS

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# Recap day 2 – Observables

- Observables
  - Concepts: “the observable sandwich”
  - Creating observables from scratch
  - `subscribing`, `async pipe`, live API's
- Operators
  - `map()`, `of()`
  - `filter()`
  - `concat()`
  - `merge()`,
  - `switchMap()`, `debounceTime()`

# More info on Observables



The screenshot shows the 'Learn RxJS' website. On the left is a sidebar with a search icon and a list of navigation items: Introduction, LEARN RXJS (with 'Operators' selected), Combination, Conditional, Creation, Error Handling, Multicasting, Filtering, Transformation, Utility, Full Listing, Subjects, Recipes, and Concepts. The main content area is titled 'Operators' and contains a description: 'A complete list of RxJS operators with clear explanations, relevant resources, and executable examples.' Below this is a link: 'Prefer a complete list in alphabetical order?'. Further down is a section titled 'Contents (By Operator Type)' which lists three categories: 'Combination' (with sub-items: combineAll, combineLatest ★, concat ★, concatAll, endWith, forkJoin, merge ★, mergeAll, pairwise, race, startWith ★, withLatestFrom ★, zip), 'Conditional' (with sub-items: defaultIfEmpty, every, iif, sequenceEqual), and 'Creation'. On the right side of the main content area, there is a 'CONTENTS' menu with links for 'Contents (By Operator Type)' and 'Additional Resources'. At the bottom left of the sidebar, there is a 'Powered by GitBook' logo.

**Learn RxJS**

Introduction

LEARN RXJS

**Operators**

Combination

Conditional

Creation

Error Handling

Multicasting

Filtering

Transformation

Utility

Full Listing

Subjects

Recipes

Concepts

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## Operators

A complete list of RxJS operators with clear explanations, relevant resources, and executable examples.

[Prefer a complete list in alphabetical order?](#)

### Contents (By Operator Type)

- Combination
  - combineAll
  - combineLatest ★
  - concat ★
  - concatAll
  - endWith
  - forkJoin
  - merge ★
  - mergeAll
  - pairwise
  - race
  - startWith ★
  - withLatestFrom ★
  - zip
- Conditional
  - defaultIfEmpty
  - every
  - iif
  - sequenceEqual
- Creation

CONTENTS

Contents (By Operator Type)

Additional Resources

<https://www.learnrxjs.io/>



Daniele Ghidoli

About me



October 22, 2016

# Combining multiple Http streams with RxJS Observables in Angular2



<http://blog.danieleghidoli.it/2016/10/22/http-rxjs-observables-angular/>



RxJS

OVERVIEW

REFERENCE

MIGRATION

TEAM

Search



# RxJS

Reactive Extensions Library for JavaScript

GET STARTED

API DOCS

## REACTIVE EXTENSIONS LIBRARY FOR JAVASCRIPT

RxJS is a library for reactive programming using Observables, to make it easier to compose asynchronous or callback-based code. This project is a rewrite of Reactive-Extensions/RxJS with better performance, better modularity, better debuggable call stacks, while staying mostly backwards compatible, with some breaking changes that reduce the API surface

<https://rxjs-dev.firebaseio.com/>

[reactive.how](#)
2.0-alpha.4

[Launchpad for RxJS →](#)

[Follow](#)
[Stay tuned](#)

ESSENTIALS	REDUCING	TAKING	SKIPPING	COMBINING	TIME	CONCATENATING
map	reduce	take	<a href="#">skip (soon)</a>	combineLatest	delay	<a href="#">startWith (soon)</a>
filter	max	takeWhile	skipWhile	zip	debounceTime	<a href="#">endWith (soon)</a>
merge	count	first	takeLast		throttleTime	<a href="#">concat (soon)</a>
scan			last			

## Learn RxJS operators and Reactive Programming principles

**Launchpad for RxJS**

**debounceTime vs throttleTime**

**Decks of cards for RxJS: learn, compare and memorize**

scan

reduce

map

filter

zip

combineLatest

<https://reactive.how/>

*Any other questions?*

# Today - day 3 – **Miscellaneous**

- Working with 3<sup>rd</sup> party libs
- Unit Testing w/ Karma & Jasmine, Cypress as alternative
- Q & A
- Enterprise applications – monorepo....or not?
- Introduction - @ngrx/store
- More on Angular Schematics



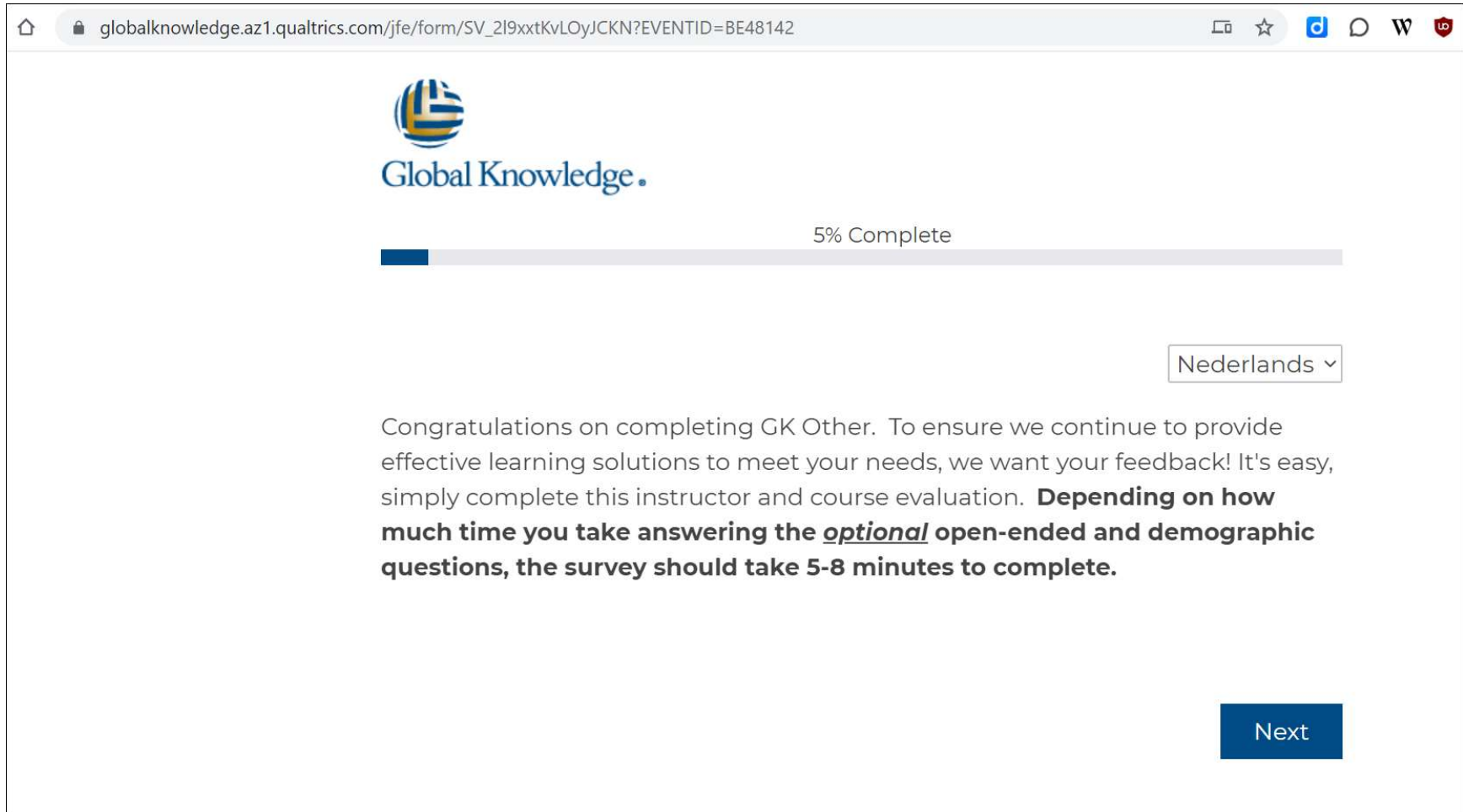


# Wrap up

- Angular CLI tips & tricks
- NG applications with multiple modules
  - Routing and Lazy loading modules
  - Loading strategies
- Content projection, Smart/View components
- Observables, `HttpClientModule`, RxJS operators
- Angular Material
- Unit Testing
- Monorepo's

# Eval

<https://bit.ly/31fYOji>



The screenshot shows a web browser window with the URL `globalknowledge.az1.qualtrics.com/jfe/form/SV_2l9xtKvLOYJCKN?EVENTID=BE48142`. The page features the Global Knowledge logo at the top left. Below the logo is a progress bar indicating "5% Complete". To the right of the progress bar is a dropdown menu currently set to "Nederlands". The main text of the page reads: "Congratulations on completing GK Other. To ensure we continue to provide effective learning solutions to meet your needs, we want your feedback! It's easy, simply complete this instructor and course evaluation. **Depending on how much time you take answering the optional open-ended and demographic questions, the survey should take 5-8 minutes to complete.**" At the bottom right, there is a blue button labeled "Next".

# Let's connect

duursporten (lopen, zwemmen, fietsen, roeien, schaatsen).  
Laatste jaar in combinatie met studie Bewegingswetenschappen, Rijksuniversiteit Groningen (RUG).  
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<https://www.linkedin.com/in/peterkassenaar/>

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2018 dates now

# Thank you

World-class Angular training in Dutch and English

classrooms - focused on today's developers

LEARN MORE SIGN UP!

The image is a screenshot of the Angulartraining.nl website. It features a dark background with a code editor interface showing Angular routing code. A large, white, diagonal watermark reading 'Thank you' is overlaid across the center. The Angular logo, a red hexagon with a white 'A', is positioned in the middle. At the top, a navigation bar includes the site name and links for Home, Training, Dates, Information, and Contact. A yellow banner in the top right corner says '2018 dates now'. Below the watermark, the text 'World-class Angular training in Dutch and English' and 'classrooms - focused on today's developers' is visible. At the bottom, there are two buttons: 'LEARN MORE' in teal and 'SIGN UP!' in blue. The left sidebar of the code editor shows a file tree with various project files like 'app-routing.module.ts', 'app.component.css', 'app.component.html', 'app.component.ts', 'app.module.ts', 'assets', 'environments', 'favicon.ico', 'index.html', 'main.ts', 'polyfills.ts', 'styles.css', 'test.ts', 'tsconfig.json', 'tslint.json', 'package.json', 'README.md', 'karma.conf.js', 'editorconfig', and '.gitignore'.

[www.angulartraining.nl](http://www.angulartraining.nl)