

Progressive State Management *with* **NGXS** talk #35

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with **ALIAKSEI KUNCEVIČ**

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COMMUNITY



Angular Minsk (BY)



Angular Sydney (AU)



Frontend Tech (AU)

TEACHING



Angular Workshop

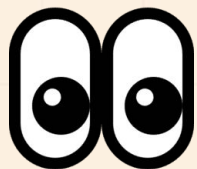


kuncevic.dev



@kuncevic

CREATOR



frontendwatch.com

Aurelia vs React vs Vue vs Svelte vs Ember vs Elm vs Angular



@kuncevic

NGXS Core Team





@amcdnl



@c4rniatto



@overthesanity



@splincodewd



@joaqcid



@apolo_codes



@markwhitfeld



@kuncevic

TOC

- ✓ Progressive state management
- ✓ Common problem with SPA's
- ✓ Reactive services
- ✓ Benefits of state management
- ✓ From reactive services to NGXS



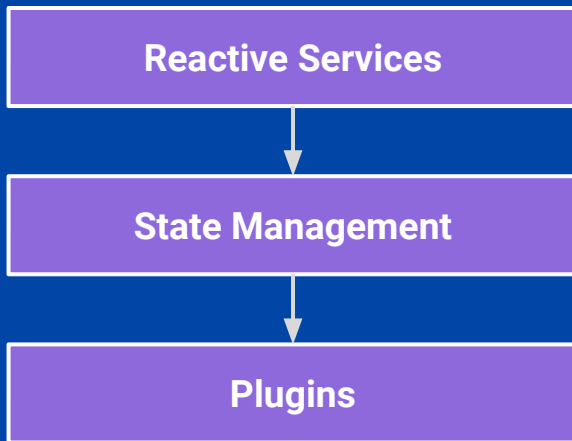


Progressive State Management





Progressive State Management

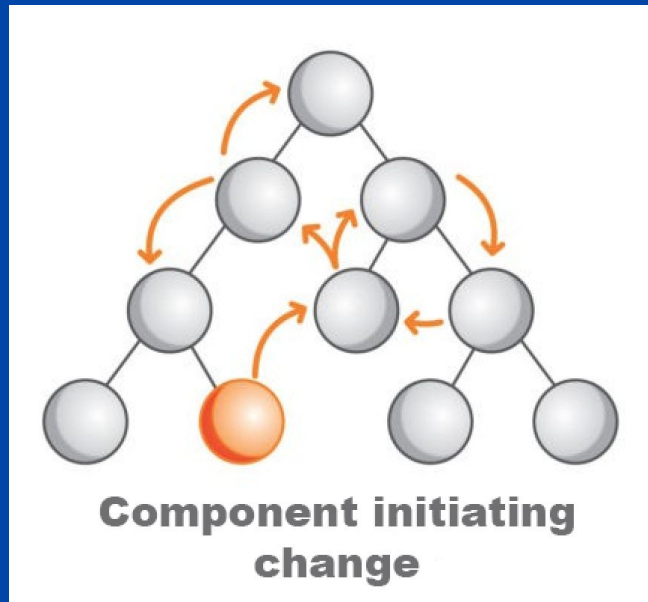


What is the most common
problem in SPA's ? 🤔

Component communication 📢

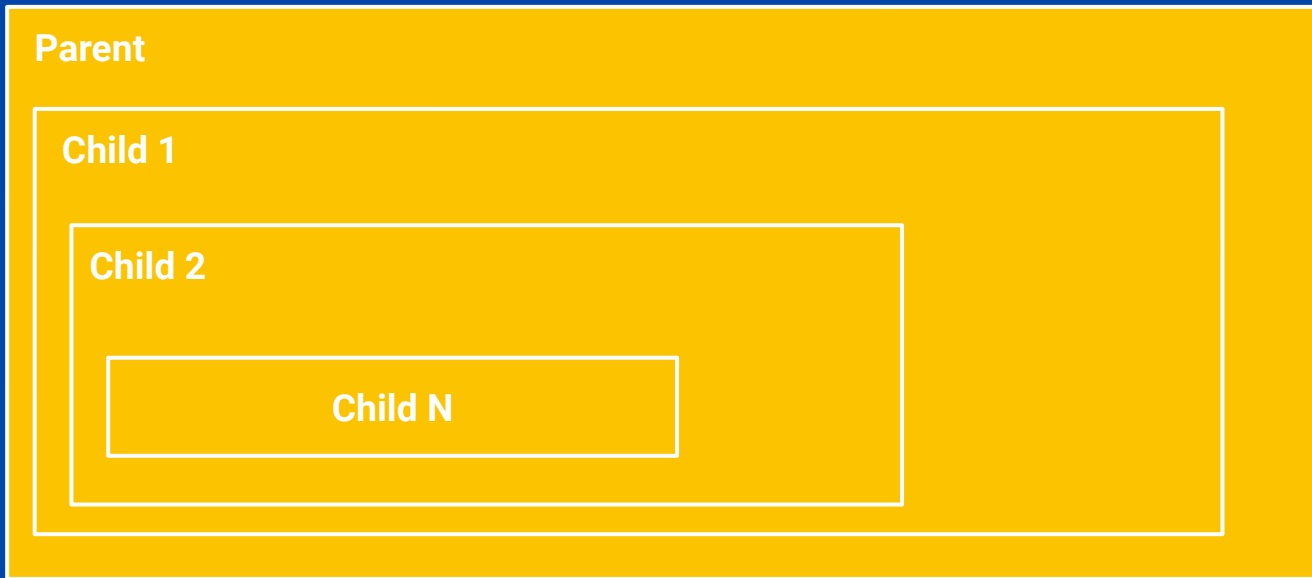


Component communication

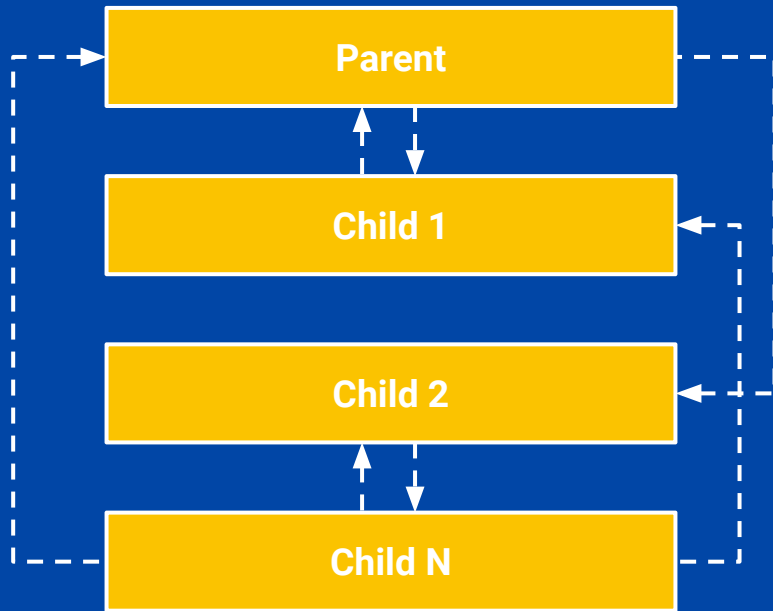




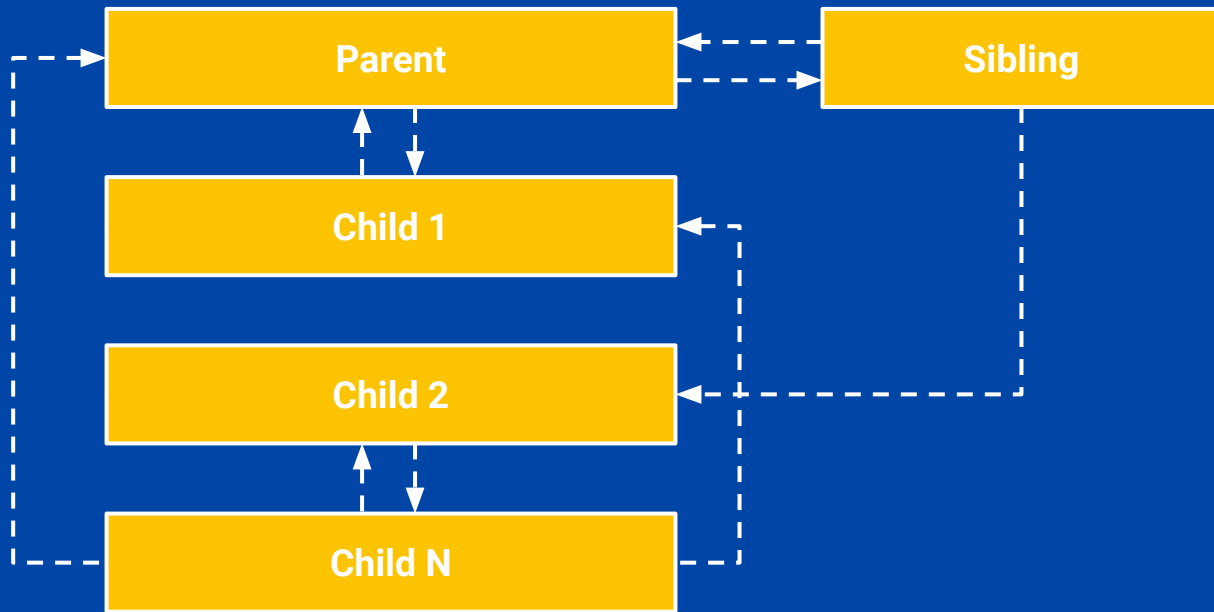
Nested components



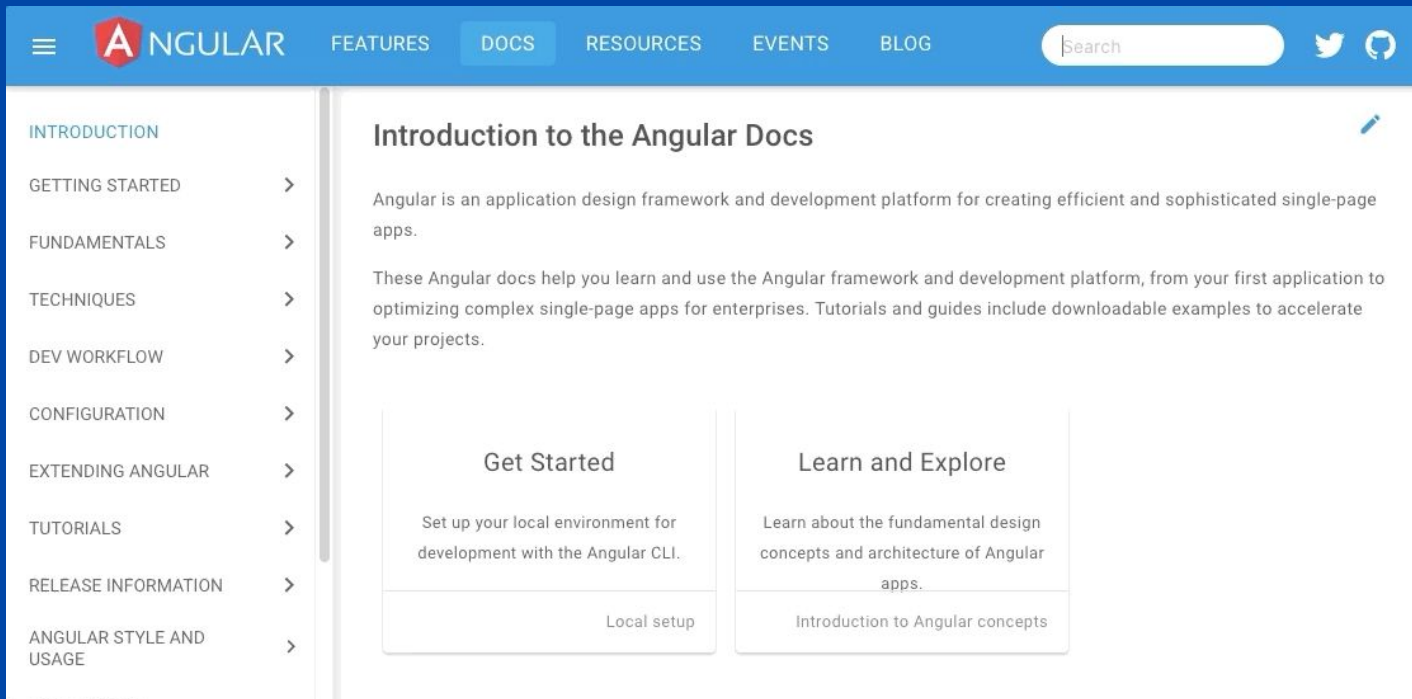
Component communication



Component communication



Basic example



The screenshot shows the Angular website's documentation page. The top navigation bar includes the Angular logo, a menu icon, and links for FEATURES, DOCS (which is highlighted), RESOURCES, EVENTS, and BLOG. A search bar and social media icons for Twitter and GitHub are also present. The left sidebar lists various documentation topics, with 'INTRODUCTION' selected. The main content area is titled 'Introduction to the Angular Docs' and contains a brief overview of Angular as a framework for single-page apps, followed by a paragraph about the purpose of the docs. At the bottom, there are two cards: 'Get Started' with a link to 'Local setup' and 'Learn and Explore' with a link to 'Introduction to Angular concepts'.

ANGULAR

FEATURES DOCS RESOURCES EVENTS BLOG

Search

INTRODUCTION

GETTING STARTED >

FUNDAMENTALS >

TECHNIQUES >

DEV WORKFLOW >

CONFIGURATION >

EXTENDING ANGULAR >

TUTORIALS >

RELEASE INFORMATION >

ANGULAR STYLE AND USAGE >

Introduction to the Angular Docs

Angular is an application design framework and development platform for creating efficient and sophisticated single-page apps.

These Angular docs help you learn and use the Angular framework and development platform, from your first application to optimizing complex single-page apps for enterprises. Tutorials and guides include downloadable examples to accelerate your projects.

Get Started

Set up your local environment for development with the Angular CLI.

Local setup

Learn and Explore

Learn about the fundamental design concepts and architecture of Angular apps.

Introduction to Angular concepts



Basic solution

- ✓ Parent to Child **@Input()**
- ✓ Child to Parent **@Output()**



@Input() and @Output()



Nested components



Reactive Services 🔥

Reactive Services 🕶️





What is Reactive Service ?



RxJS BehaviorSubject

RxJS BehaviorSubject 🤔

- ✓ Set default value
- ✓ Set new value
- ✓ Get current value



Demo



rx-service



github.com/kuncevic/rx-service



State Management



**What is your favourite state
management solution ?**

Top state management solutions for Angular





Benefits of state management 🙌

- ✓ Simplify component communication
- ✓ Predictable data flow
- ✓ Easy testing/easy debugging
- ✓ Consistent practices across the teams



NGXS 

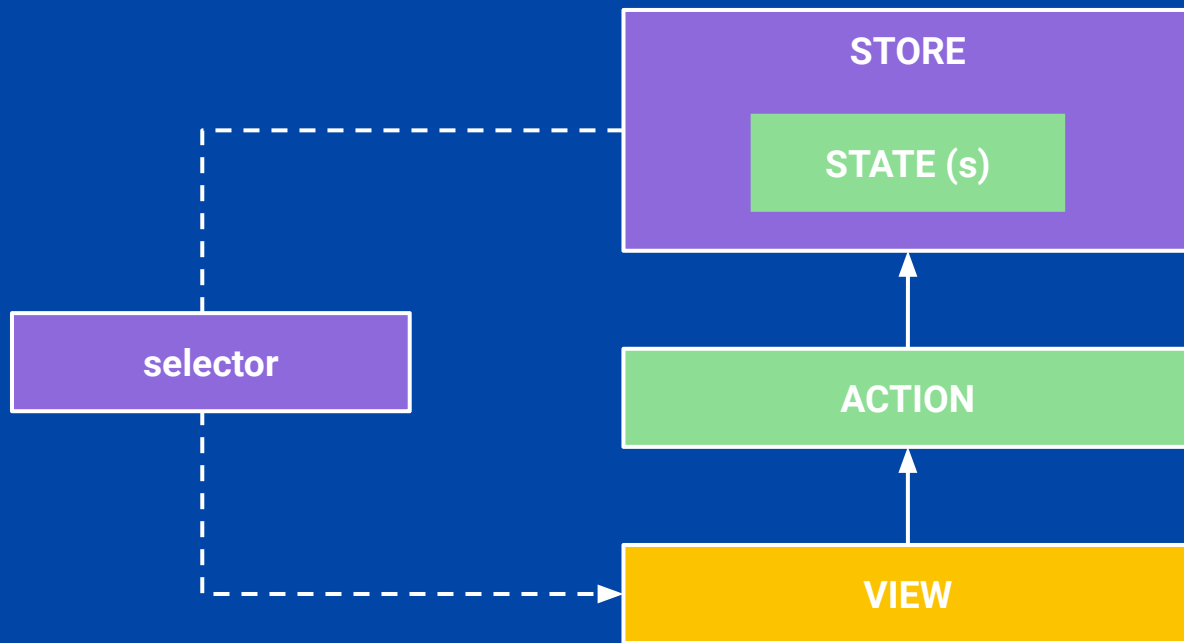




NGXS Features

- ✓ Simple
- ✓ Less Boilerplate
- ✓ Dependency Injection
- ✓ Decorators
- ✓ Action Life Cycles
- ✓ Promises
- ✓ Community

NGXS Basics 🐘



From Reactive Services to NGXS



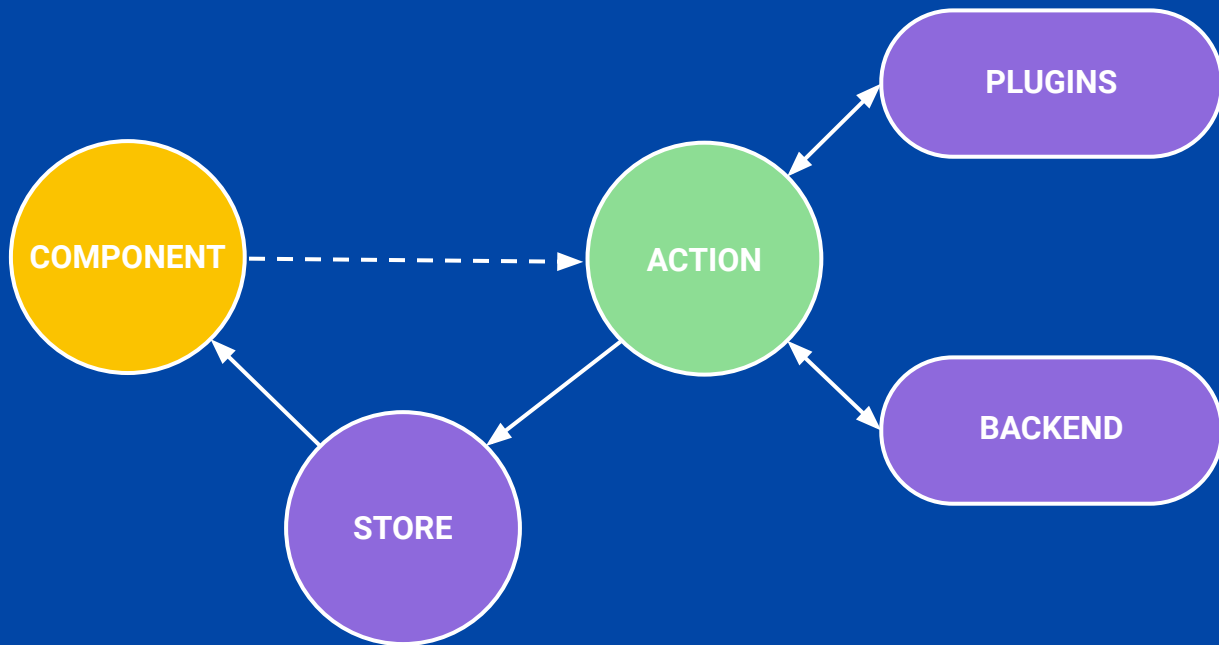


Demo



NGXS Plugins

NGXS Plugins





NGXS Plugins

- ✓ Logger
- ✓ Storage
- ✓ Web Socket
- ✓ Devtools
- ✓ Forms
- ✓ Router



ngxs.io/plugins



NGXS Labs



NGXS Labs

- ✓ Data
- ✓ Emitter
- ✓ Immer adapter
- ✓ Dispatch decorator
- ✓ Select snapshot
- ✓ Async storage plugin
- ✓ Entity state
- ✓ Actions executing
- ✓ Attach action



ngxs.io/ngxs-labs



NGXS Data



Features

- ✓ Even less boilerplate
- ✓ Entity adapter
- ✓ Persistence
- ✓ and more

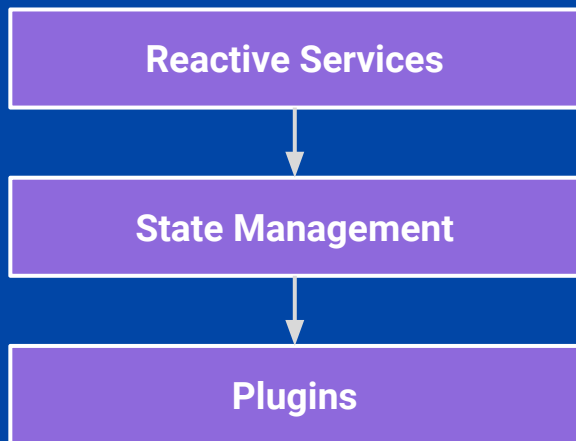


Demo



github.com/ngxs-labs/data

Progressive State Management





Th nk you!



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twitter.com/kuncevic



dev.to/kuncevic



kuncevic.dev/daily



Links

Code and video	
github.com/kuncevic/progressive-state-management-with-ngxs	youtu.be/mY9rIno7_uc github.com/kuncevic/rx-service
NGXS	
ngxs.io tinyurl.com/ngxs-slack	ngxs.io/plugins ngxs.io/ngxs-labs
Other	
youtu.be/y3F99lsnNvI (The Power of NGXS Selectors, by Mateus Carniatto)	youtu.be/BtVHm0FJIRA?t=114 (NGXS and NGXS Data, Max Ivanov)