



ANGULAR
ARCHITECTS
INSIDE KNOWLEDGE

Angular Deep Dive

Hosted by Alex Thalhammer

About me ...



It's a me → LX T

- **Alex Thalhammer** from Graz, Austria (since 1983)
 - Angular Software Tree GmbH (since 2019)
- WebDev for 20+ years (I've come a long way baby)
- WordPress Dev (Web, PHP & jQuery, 2011 – 2017)
- **Angular Dev** (Web, TS, Rx since 2017 - NG 4.0.0 😊)
- **Angular Coach & Consultant** (since 2020)
 - Member of Angular Architects

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



About you ...

Tell us sth about yourself

- Hi, my name is ...
- I currently work on ...
- It's difficult for me to ...
- My goal for the next 3 days is ...

Pollings

- OS
 - Mobile OS?
- Browser
- IntelliJ/WebStorm vs VS Code
- npm vs yarn



Tell us sth about your team / projects

- Before I tell you sth about our workshop 😊

About this workshop ...

My Goals

- **Motivate** you for Angular
- Give **input** on advanced Angular topics
- Get your **hands on** those topics (labs / excercises)
- **Discuss** open topics and **answer** your questions

We work together I

- Don't hesitate to interrupt me at **ANY TIME**
 - Questions
 - Remarks or
 - Feedback 😊
- Somebody else might have the same **question**
 - Be a hero and ask it
 - Seriously, it makes the workshop better for all of us 😊



We work together II

- Remote: Please turn your camera on ***ALL THE TIME***
 - Necessary for me to get your feedback
 - This will also improve the workshop for all 😊

Timing

- 09:00 – 12:20 (incl. 20m ☕ break)
- 1hr 🍲 break
- 13:20 – 16:40 (incl. 20m ☕ break)
- Including expected delay we will end at 17:00 latest

Topics

Intro &
Components

RxJS & | async,
Directives,
Services

Template-driven
& Reactive Forms
& Validation

Components
Data-Binding
& C.D. OnPush

Routing, Guards,
Lazy Loading

RxJS operators



Didactics

Inputs

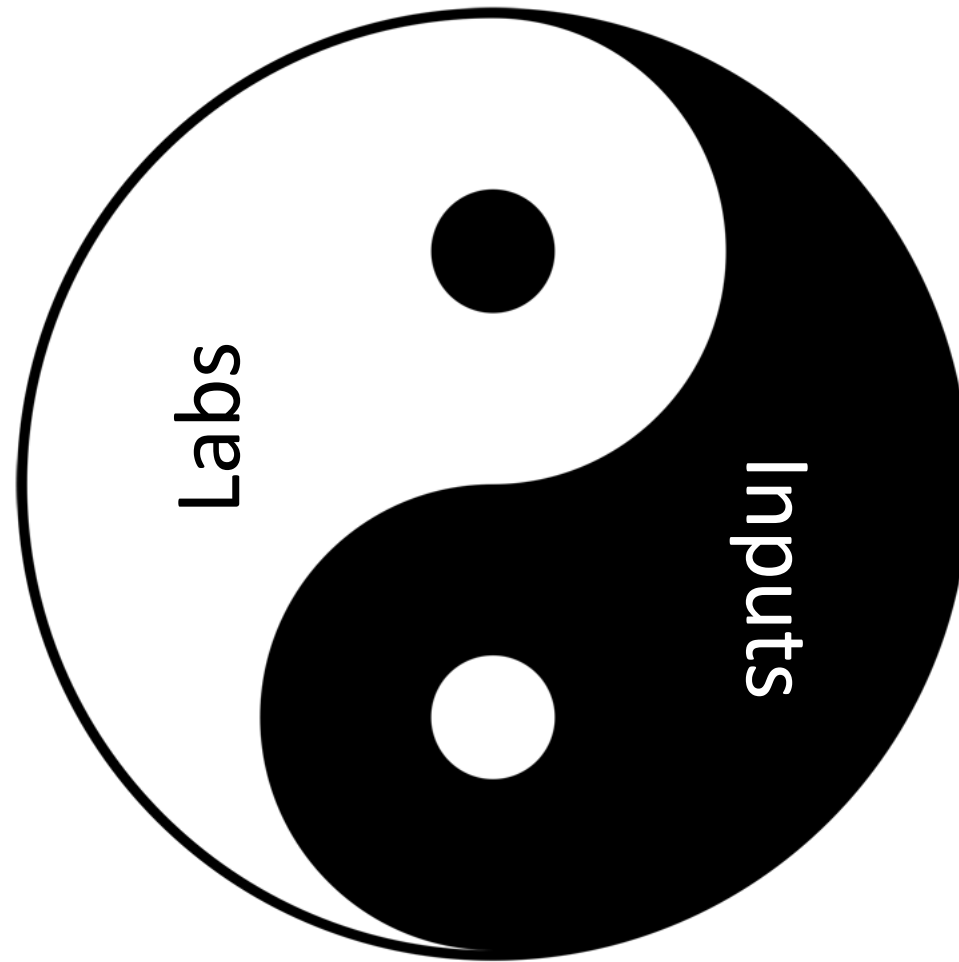
Discussion

Labs

Q&A



Didactics



Setup for Labs I

- NodeJS version **16.14.x** (and higher 16) or **18.10.x** (and higher 18)
 - NodeJS version 14 dropped in NG 16

Actively supported versions

This table covers [Angular versions under active support](#).

ANGULAR	NODE.JS	TYPESCRIPT	RXJS
16.0.x	^16.14.0 ^18.10.0	>=4.9.3 <5.1.0	^6.5.3 ^7.4.0
15.1.x 15.2.x	^14.20.0 ^16.13.0 ^18.10.0	>=4.8.2 <5.0.0	^6.5.3 ^7.4.0
15.0.x	^14.20.0 ^16.13.0 ^18.10.0	~4.8.2	^6.5.3 ^7.4.0
14.2.x 14.3.x	^14.15.0 ^16.10.0	>=4.6.2 <4.9.0	^6.5.3 ^7.4.0
14.0.x 14.1.x	^14.15.0 ^16.10.0	>=4.6.2 <4.8.0	^6.5.3 ^7.4.0
13.3.x	^12.20.0 ^14.15.0 ^16.10.0	>=4.4.3 <4.7.0	^6.5.3 ^7.4.0
13.1.x 13.2.x	^12.20.0 ^14.15.0 ^16.10.0	>=4.4.3 <4.6.0	^6.5.3 ^7.4.0
13.0.x	^12.20.0 ^14.15.0 ^16.10.0	~4.4.3	^6.5.3 ^7.4.0

Windows Users: Download and install from <https://nodejs.org/>

Mac Users: Use Homebrew 



Setup for Labs II

- Git
 - Personally I like to use Sourcetree
- IDE: VS Code (free) or IntelliJ/WebStorm (not free, but better IMHO)
 - Personally I prefer IntelliJ/WebStorm
- Chrome (or Chromium based alternative)
 - Other browsers are okay for private matters

Recommendations

- Use prettier
 - especially for .ts files (if not for all)
- Use ESLint
 - in your IDE of choice and/or from terminal
- Use Git
 - we recommend to at least commit after every lab
 - easier switching back and forth with my solution

Starter Kit

- Slides
- & Labs (exercises)



Ready for takeoff!

- What are your questions so far?

Lab

- Pull the repo [https://github.com/L-X-T/\[...\]](https://github.com/L-X-T/[...])
- Please get started with lab 00_getting_started
- yarn (or npm i) and then yarn start (or npm start)
- Take a closer look at the starter kit
- Optional: If you're using VSCode you may add the plugins mentioned

Outline for day 1

- Intro
- Components Deep Dive
 - View vs Content
 - Content Projection
 - Standalone Components
- Databinding / Change Detection
- RxJs & Async Pipe



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Outline for day 2

- Recap day 1
- Directives
 - ng-template & ng-container
- Services
 - Dependency Injection
- Routing
 - Parameters
 - Guards
- Lazy Loading Initial Load Performance



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Outline for day 3

- Recap day 2
- What forms do you use?
- Template-driven Forms
- Reactive Forms
- Further topics / questions
- Recap day 3



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