About me …

My office ☺

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/

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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 …

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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
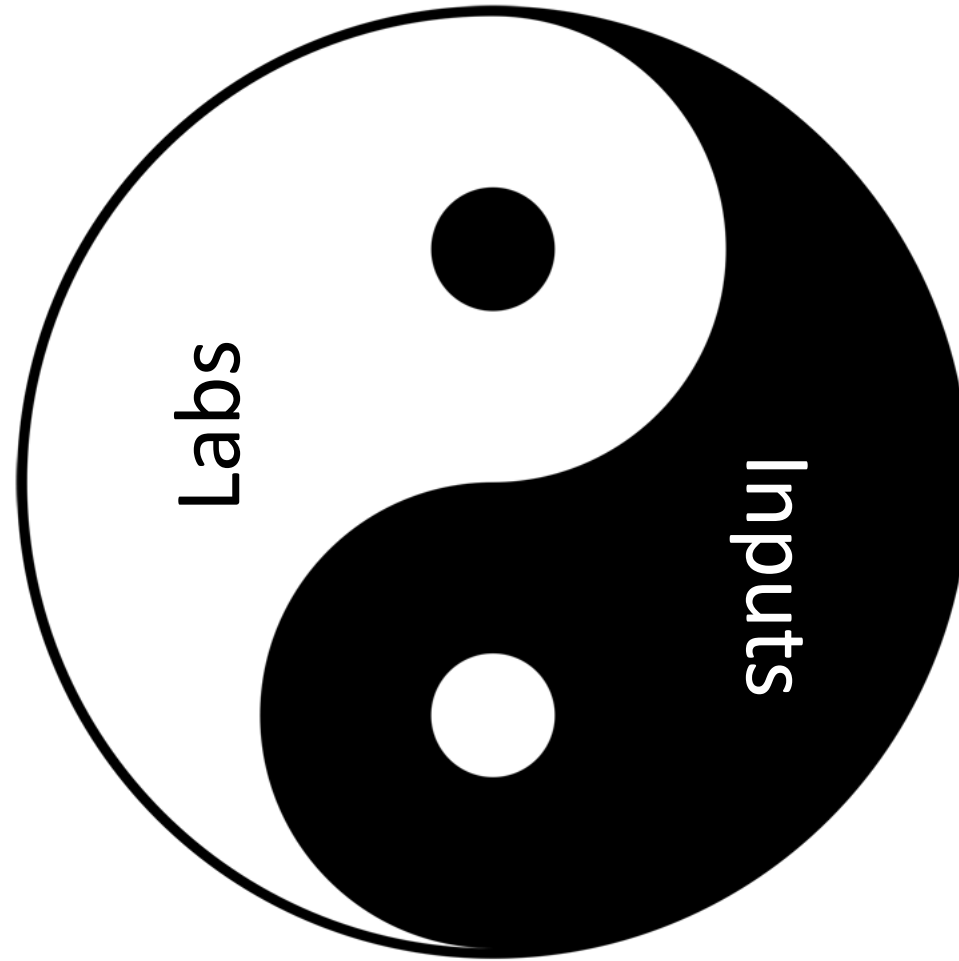
Didactics

Inputs

Discussion

Labs

Q&A

Didactics

We work together I

- Don't hesitate to interupt 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 ☺

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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

Directives, Services

Template-driven & Reactive Forms & Validation

Data-Binding & C.D. OnPush RxJS & | async

Routing, Guards, Lazy Loading

…

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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 🍺

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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

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Recommendations

- Use prettier
    - especially for .ts files (if not for all)

- Use ESLint
    - in your IDE of choice and/or from terminal

- Use Git commits
    - 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?

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Lab

- Pull the repo 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

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Day 1 - Components Deep Dive

- Intro

- Components Deep Dive
  - View vs Content
    - Content Projection
  - Standalone Components
  - Signals

- Databinding / Change Detection

- RxJs & Async Pipe

Day 2 - Directives, Services & Routing

- Directives
  - Custom attribute directives
  - ng-template & ng-container

- Services
  - Dependency Injection

- Routing
  - Parameters
  - Guards

- Lazy Loading
  - Initial Load Performance

Day 3 - Forms & Validation

- What forms do you use?

- Template-driven Forms & Validation

- Reactive Forms & Validation

- RxJS Operators

- Recap day 3 / Feedback