

About me ...





My office ©





Hi, it's me \rightarrow @LX T

- Alex Thalhammer from Graz, Austria (since 1983)
 - Angular Software Tree GmbH (since 2019)
- WebDev for 22+ 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 Evangelist, 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(s) for the next 3 days is (are) ...



Pollings

- OS
 - Mobile OS?

• Browser

IntelliJ/WebStorm vs VS Code

npm vs yarn vs pnpm



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 essential Angular topics

Get your hands on those topics (labs / exercises)

• Discuss open topics and answer your questions

Didactics

Inputs

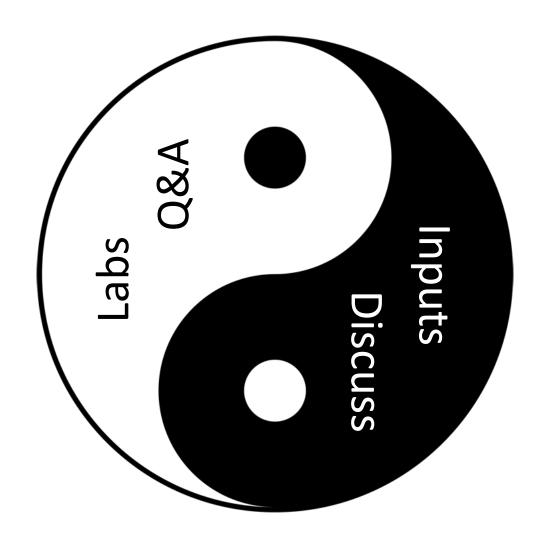
Discussion

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 ©





Timetable (approx.)

• 08:30 − 12:00 (incl. 20m • break)

• 1hr * break

- 13:00 − 17:00 (incl. 20m ⇒ break)
 - 13:00 15:00 on Friday ©
- Including expected delay we will try to end at 17:00 latest



Topics

Intro, IDE Intro,
TypeScript
Speedrun,
Angular Intro

RxJS, Signals, Modules & Standalone Components

Template-driven & Reactive Forms

State Management mit Redux & NgRx

Components,
Directives,
Services,
Pipes

Components
Deep Dive

Routing,
Performance

NG17 & Recap



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

Try "node -v"

Windows / Linux: Use NVM ©

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)

• & free book ©



Ready for takeoff!

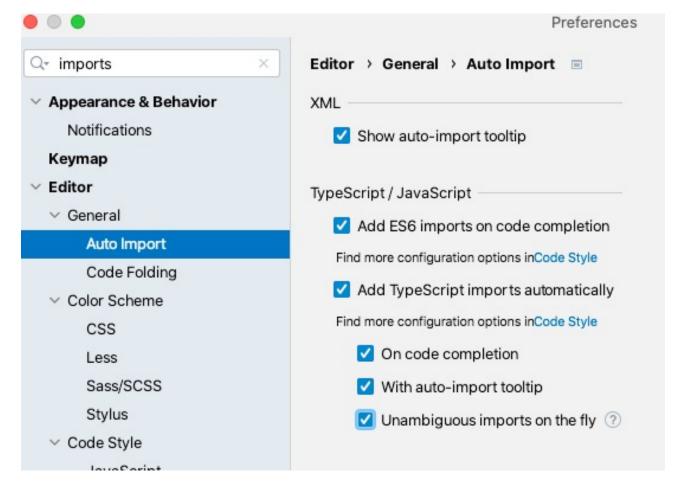
What are your questions so far?

Lab

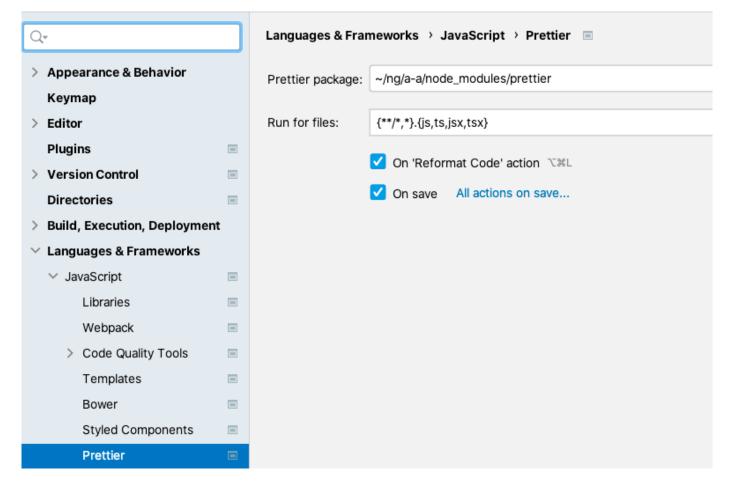
- Clone the repo https://github.com/L-X-T/[...]
- Please get started with lab 00_getting_started
- yarn (or npm i) and then yarn start (or npm start)
- Take a closer look at the starter kit
- Optional: If you're using VSCode you may add the plugins mentioned



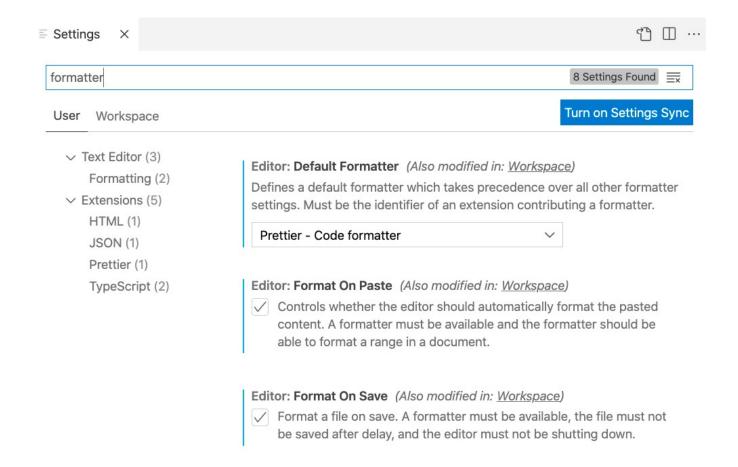
1 more thing: Web-/PhpStorm auto import



1 more thing: WebStorm prettier



1 more thing: VS Code Prettier





Disclaimer: This workshop is not about

- TypeScript / JavaScript
 - https://www.udemy.com/course/understanding-typescript/
 - By Maximilian Schwarzmüller who also offers Angular, React & VueJS (in English)
- HTML5 / CSS3 (SCSS)
 - https://www.udemy.com/course/design-and-develop-a-killer-website-withhtml5-and-css3/
- Or all together premium course with mentor
 - https://www.udacity.com/course/front-end-web-developer-nanodegree-nd0011



Day 1 – Intro & Building Blocks

Introduction

- Overview & Speedrun TypeScript
- Angular Introduction
- Angular Services
- Angular Pipes



Day 2 – Aysnc & Components

- Recap building blocks
 - Components
 - Built-in Directives
 - Services
 - Pipes
- RxJS vs Signals
- Angular Modules vs Standalone Components
- Components Deep Dive
 - Databinding
 - Content Projection
 - Smart vs dumb components
 - Component Life cycle hooks



Day 3 – Forms, Routing & Performance

- Forms & Validation
 - Template driven Forms
 - Reactive Forms

Routing

- Performance
 - Lazy Loading
 - CD OnPush



Day 4 – Redux & NgRx

- Redux & NgRx
 - State
 - Actions
 - Reducers
 - Selectors
 - Effects

Recap & Feedback

