

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 24+ 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 ... and I currently work on ...

• I'd like to learn how to ...

• In Angular it's difficult for me to ...

• My goal(s) for the next 4 days is (are) ...

Pollings

• OS

• IDE

Mouse or TrackPad?



Tell us sth about your team / projects

• Before I tell you sth about our workshop ©



About this workshop ...



My Goals

• Motivate you for Angular

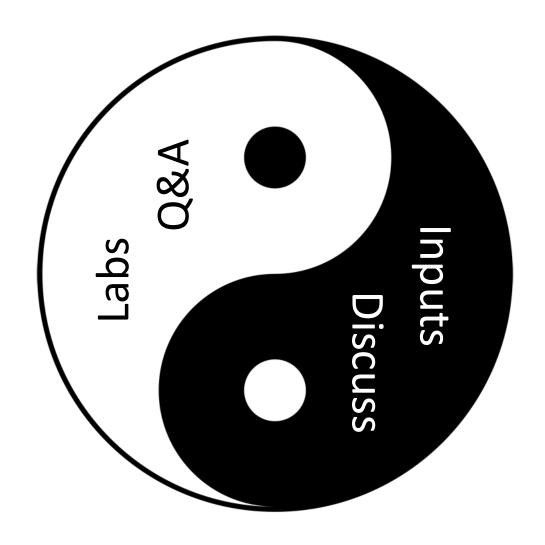
• Give **input** on essential Angular topics

Get your hands on those topics (labs / exercises)

• Discuss open topics and answer your questions



Didactics





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.)

• 09:00 – 12:15 (incl. 15m 🕭 break)

• 1hr 📀 break

• 13:15 – 16:30 (incl. 15m 🕭 break)

Including expected delay we will end at 17:00 latest





Topics

Typescript,
Angular Basics,
Component,
Service, Pipe

Standalone, Control Flow, Components Deep Dive

Routing,
PerformanceOptimierung

RxJS (Observables)
Basics & Operators,
Signals

Signal Based Components, Reactive Forms Unit- & E2E-Testing

RSG Standards vs. Alex Best Practices



Setup for Labs I

- NodeJS version ^18.19.x or ^20.11.1 or ^22.0.0
 - NodeJS version 14 dropped in NG 16, version 16 dropped in NG 17

Actively supported versions

This table covers Angular versions under active support.

Angular	Node.js	TypeScript	RxJS
19.2.x	^18.19.1 ^20.11.1 ^22.0.0	>=5.5.0 <5.9.0	^6.5.3 ^7.4.0

Try "node -v"

Windows / Linux: Use NVM ©

Mac Users: Use Homebrew



https://angular.dev/reference/versions#actively-supported-versions



Setup for Labs II

- 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
 - personally I liked to use Sourcetree → now Tower
 - we recommend to at least commit after every lab
 - easier switching back and forth with my solution



Starter Kit Repository

• Slides

Labs (exercises)

• & free book ©



Ready for takeoff!

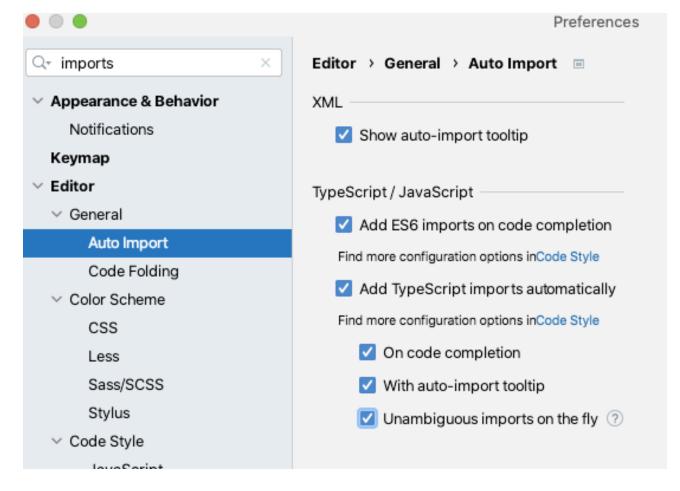
• What are your questions so far?

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

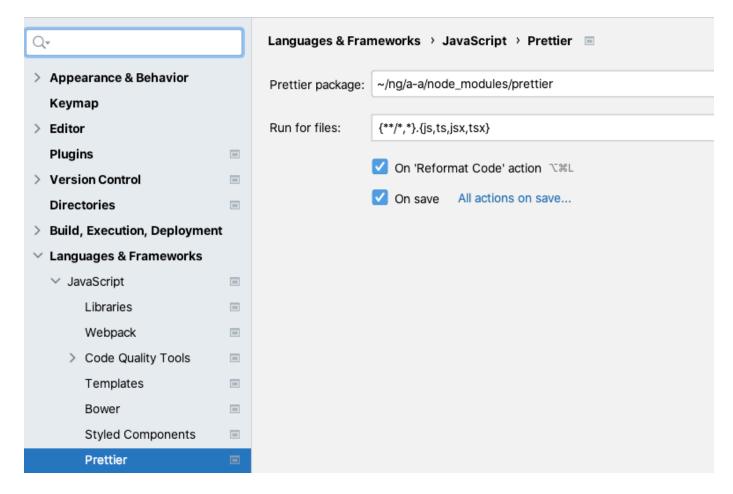


1 more thing: Web-/PhpStorm auto import



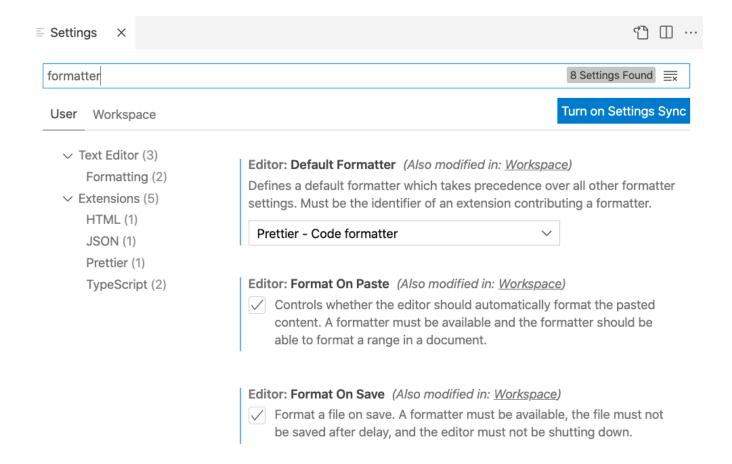


1 more thing: WebStorm prettier





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



Day 2 – Aysnc & Components

- Angular Pipes
- Recap building blocks
 - Components
 - Built-in Directives
 - Services
 - Pipes
- RxJS Observables
 - Basics
 - Operators
 - Signals
- Angular Standalone Components
- Components Deep Dive
 - Databinding
 - Content Projection
 - Smart vs dumb components
 - Component Life cycle hooks
 - AAAND new control flow



Day 3 – Forms, Routing & Performance

- Forms & Validation
 - Template driven Forms
 - Reactive Forms
- Routing
- Performance
 - Lazy Loading
 - CD OnPush
- Recap & Feedback



Day 4 – Forms, Routing & Performance

- Performance
 - Lazy Loading / @defer
 - CD OnPush'
- Testing
 - Unit Testing
 - E2E Testing
- RSG Styleguide vs Alex Best Practices
- Recap & Feedback

