



ANGULAR  
**ARCHITECTS**  
INSIDE KNOWLEDGE

# Angular Essentials

Hosted by Alex Thalhammer

# About me ...





# My office 😊



# Hi, it's 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 2/3 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 essential Angular topics
- Get your **hands on** those topics (labs / exercises)
- **Discuss** open topics and **answer** your questions

# Didactics

Inputs

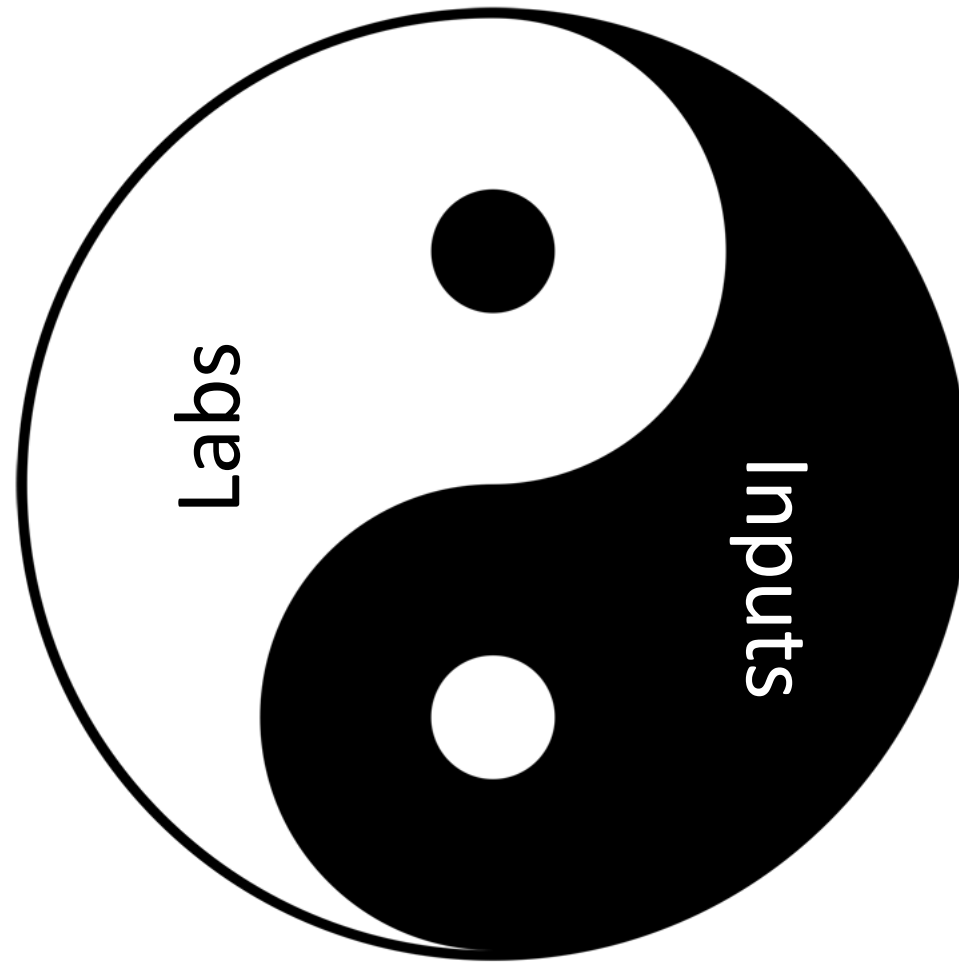
Discussion

Labs

Q&A



# Didactics



# We work together I

- Don't hesitate to 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, IDE Intro,  
TypeScript  
Angular Intro

RxJS, Signals,  
Modules &  
Standalone  
Components

Templ. Driven &  
Reactive Forms

Components,  
Directives,  
Services,  
Pipes

Components  
Deep Dive

Routing,  
Performance,  
Nx, NgRx



# 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	<b>^16.14.0    ^18.10.0</b>	>=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)
- & free book 😊



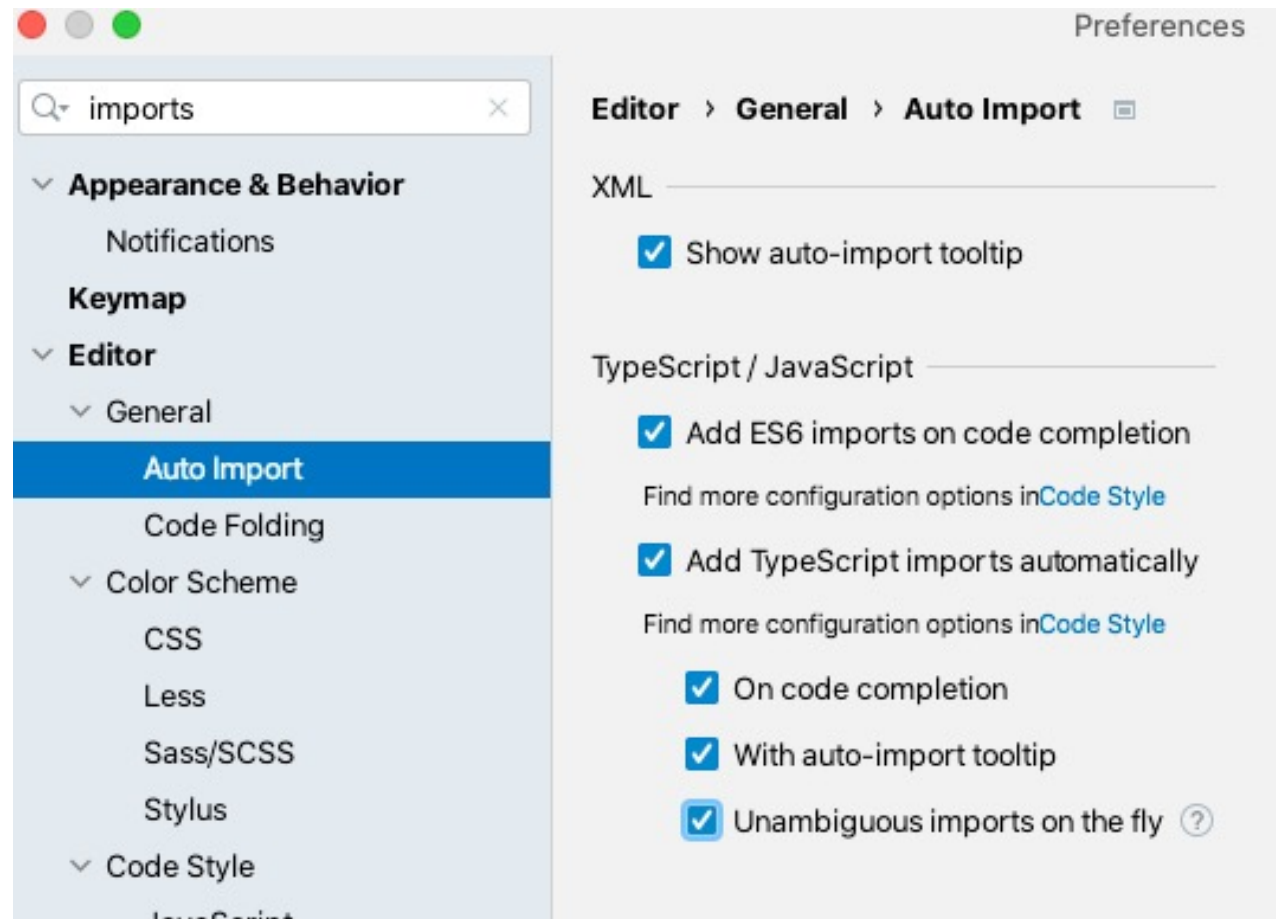
# Ready for takeoff!

- What are your questions so far?

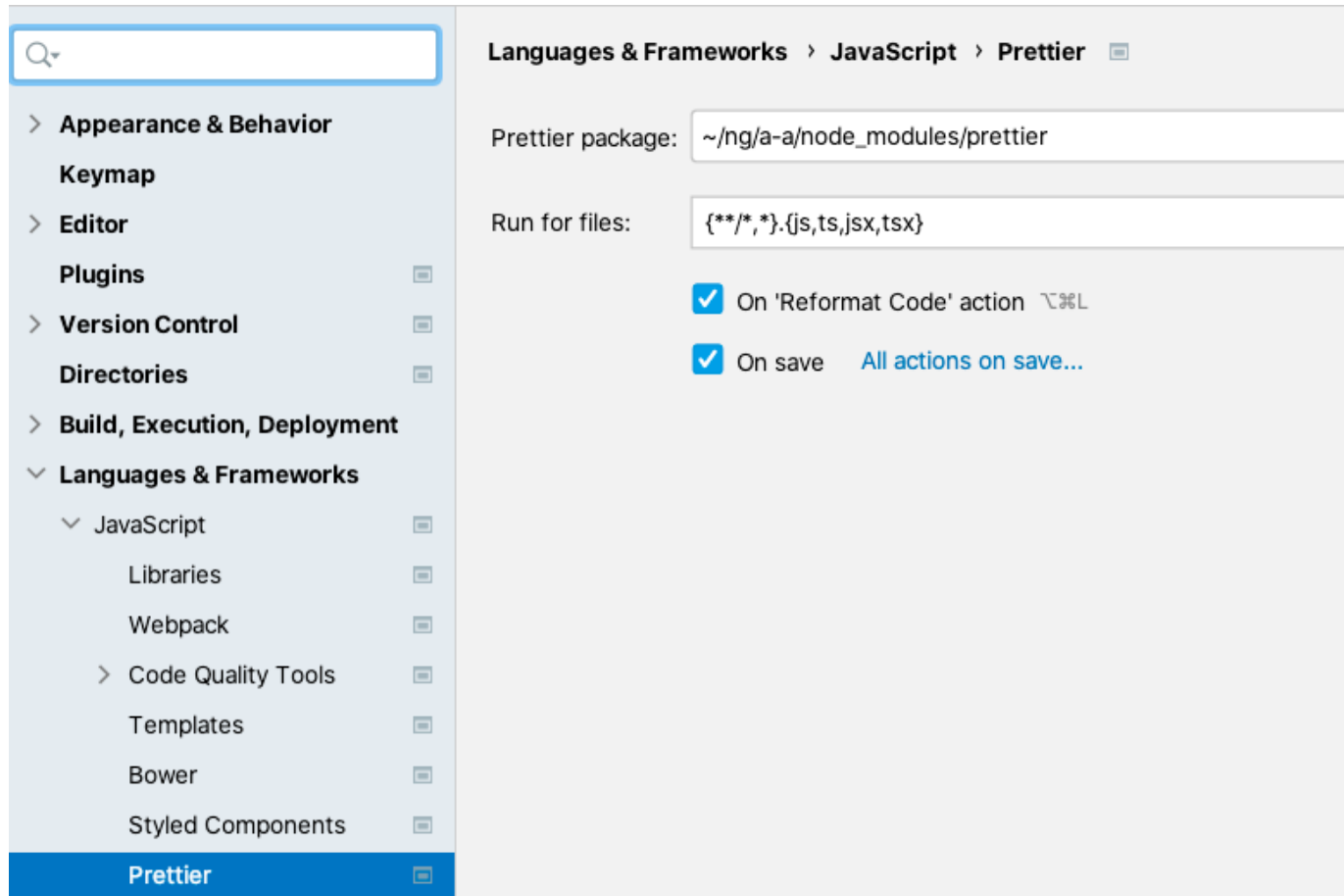
# Lab

- Clone 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

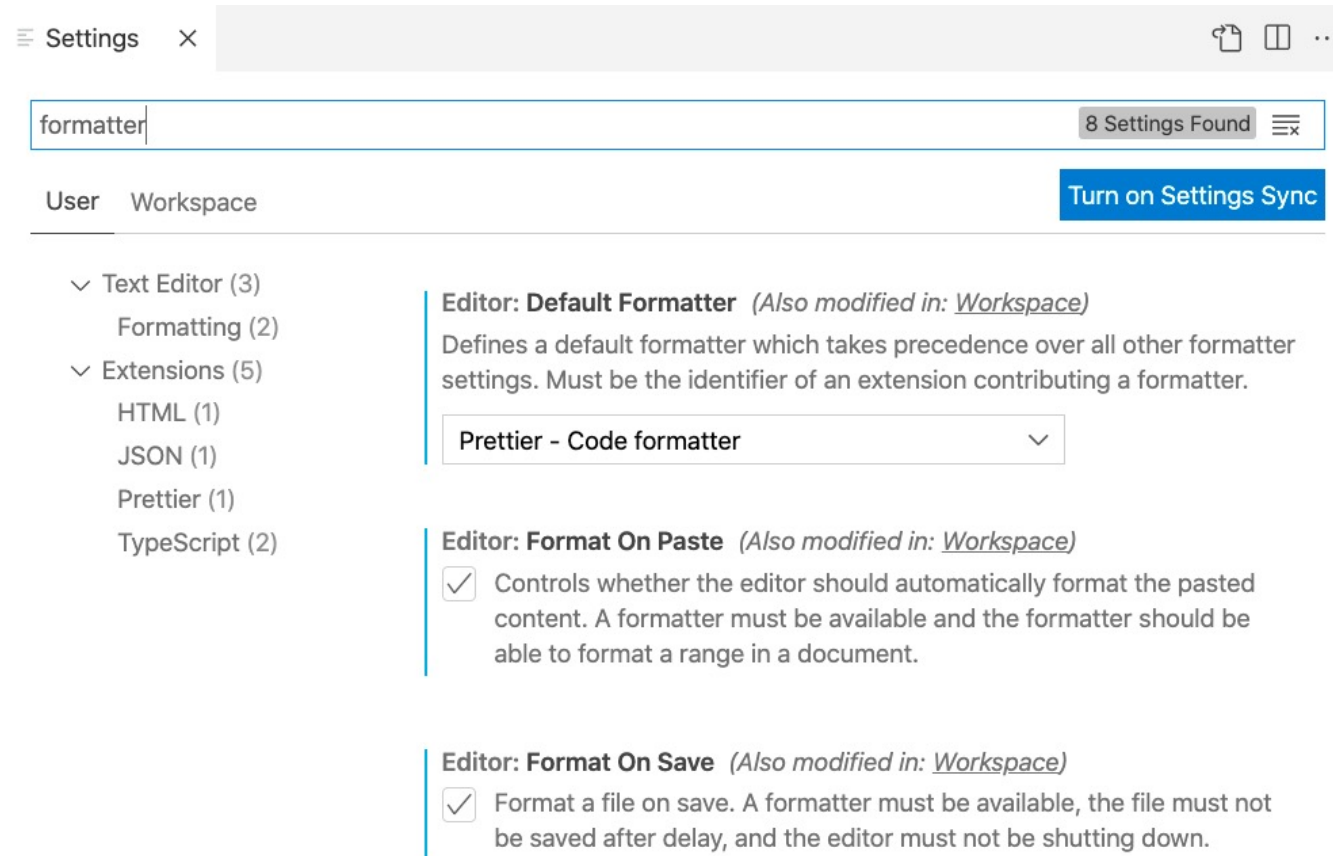
# 1 more thing: Web-/PhpStorm auto import



# 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-with-html5-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
- Angular Modules

# Day 2 - Components & Forms

- Recap building blocks
  - Modules
  - Components incl. data binding
  - Built-in Directives
  - Services
  - Pipes
- Smart vs dumb components
- Component - Life cycle hooks
- Angular Schematics in VS Code
- Angular CLI
- Forms
  - Template driven Forms
  - Reactive Forms



# Day 3 - Routing & Performance

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

