



ANGULAR
ARCHITECTS
INSIDE KNOWLEDGE

Sybit Essentials


Hosted by Alex Thalhammer

About me ...



My office 😊



Hi, it's me → @LX T 

<https://alex.thalhammer.name/>

- **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

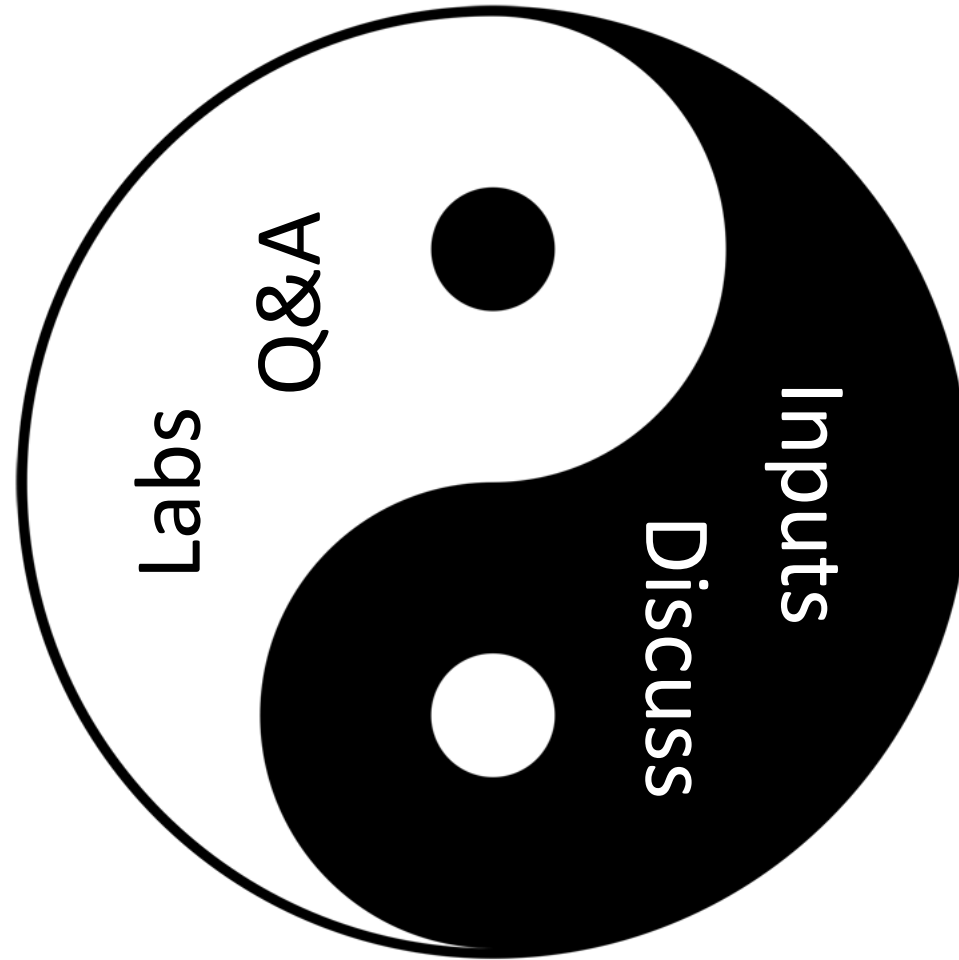
- Before I tell you sth about our workshop 😊

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 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 😊

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 🏁

Timetable (approx.)

- 09:00 – 13:00
- 15/20min ☕ break



Topics

Typescript,
Angular Basics,
Component,
Service, Pipe

Standalone,
Control Flow,
Components
Deep Dive

Routing,
(Performance-
Optimierung)

RxJS (Observables)
Basics &
Operators,
Signals

Signal Based
Components,
Reactive Forms

Recap Tage 1-3,
RSG Standards vs.
Alex Best Practices



Setup for Labs

- NodeJS version ^20.19.0 or ^22.12.0 or ^24

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

Try "node -v"

Use NVM ☺



Mac Alternative: Use Homebrew



Setup



ANGULAR
ARCHITECTS
INSIDE KNOWLEDGE



SOFTWARE
ARCHITECT

Setup for Labs I

- NodeJS version **^20.19.0** or **^22.12.0** or **^24**

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

Angular	Node.js	TypeScript	RxJS
20.0.x	^20.19.0 ^22.12.0 ^24.0.0	>=5.8.0 <5.9.0	^6.5.3 ^7.4.0
19.2.x	^18.19.1 ^20.11.1 ^22.0.0	>=5.5.0 <5.9.0	^6.5.3 ^7.4.0
19.1.x	^18.19.1 ^20.11.1 ^22.0.0	>=5.5.0 <5.8.0	^6.5.3 ^7.4.0
19.0.x	^18.19.1 ^20.11.1 ^22.0.0	>=5.5.0 <5.7.0	^6.5.3 ^7.4.0
18.1.x 18.2.x	^18.19.1 ^20.11.1 ^22.0.0	>=5.4.0 <5.6.0	^6.5.3 ^7.4.0
18.0.x	^18.19.1 ^20.11.1 ^22.0.0	>=5.4.0 <5.5.0	^6.5.3 ^7.4.0

Try "node -v"

Windows / Linux: Use NVM 😊

Mac Users: Use Homebrew 🍺



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 Fork
 - 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!

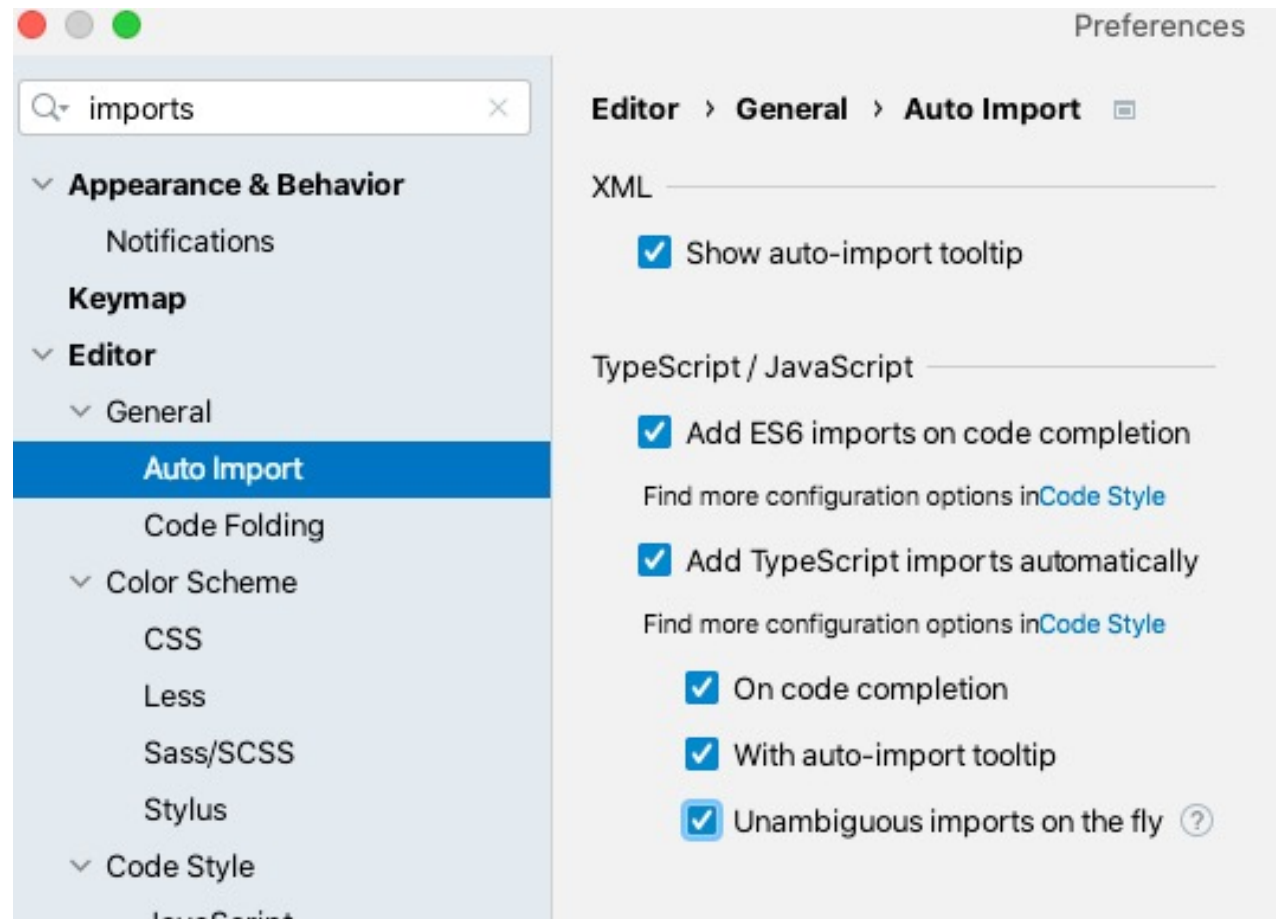
- What are your questions so far?

Lab

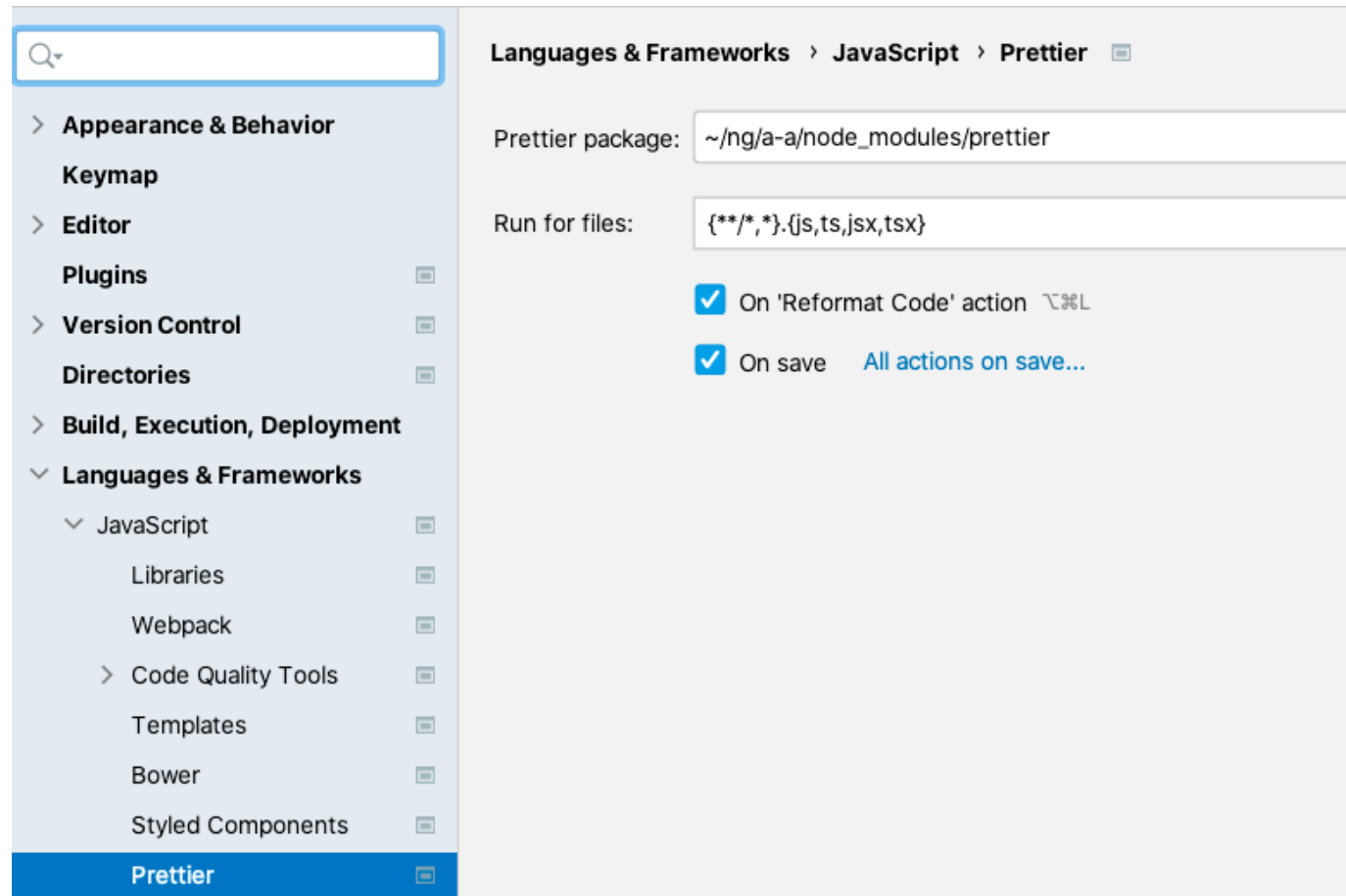
- Clone the repo [https://github.com/L-X-T/\[...\]](https://github.com/L-X-T/[...])
- Please get started with lab 00_getting_started
- yarn (or npm i) and then yarn start (or npm start)
- Take a closer look at the starter kit
- Optional: If you're using VSCode you may add the plugins mentioned



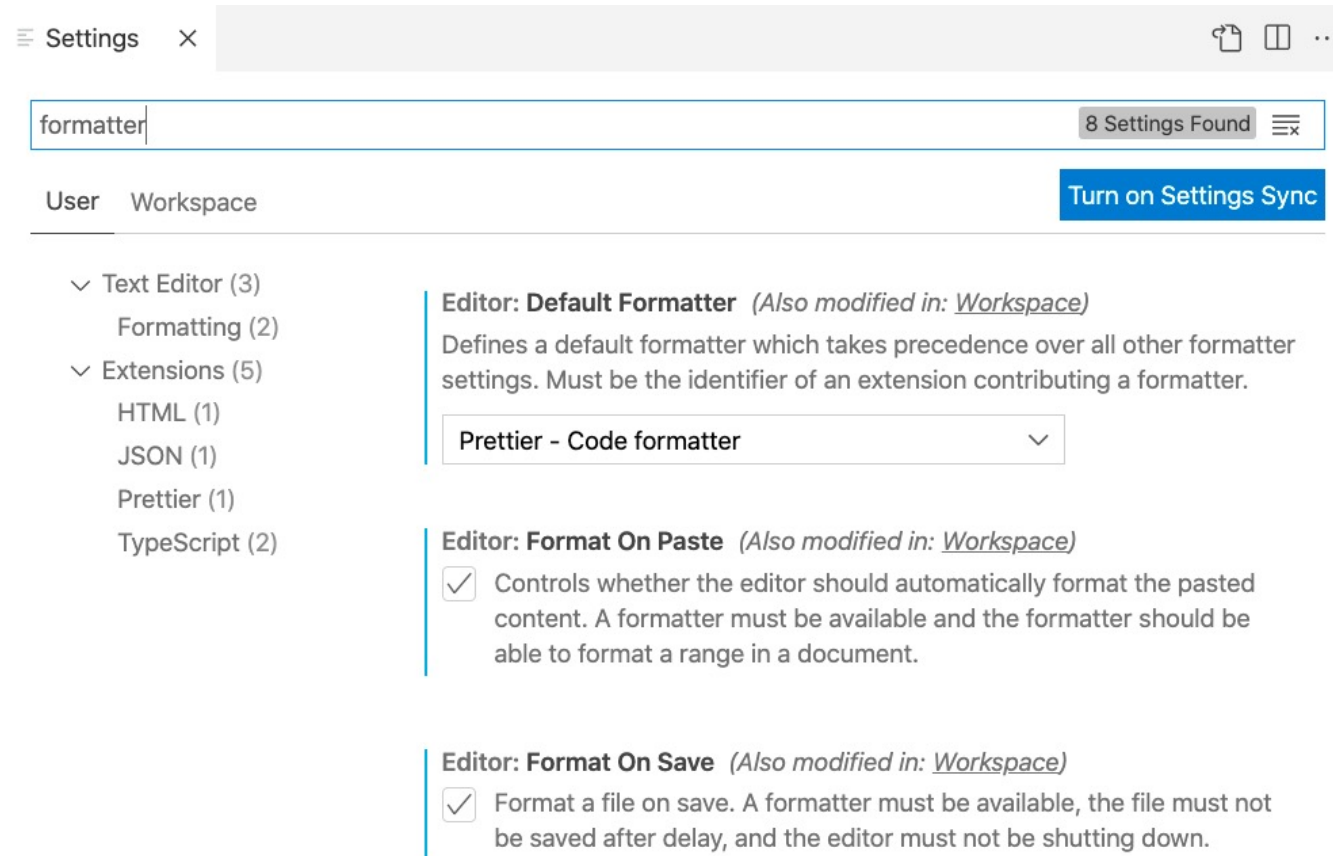
1 more thing: Web-/PhpStorm auto import



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

Day 2 – Async & 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

