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 23+ 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

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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(s) for the next 4 days is (are) …

Pollings

- OS
  - Mobile OS?

- Browser

- IntelliJ/WebStorm vs VS Code

- ?

Tell us sth about your team / projects

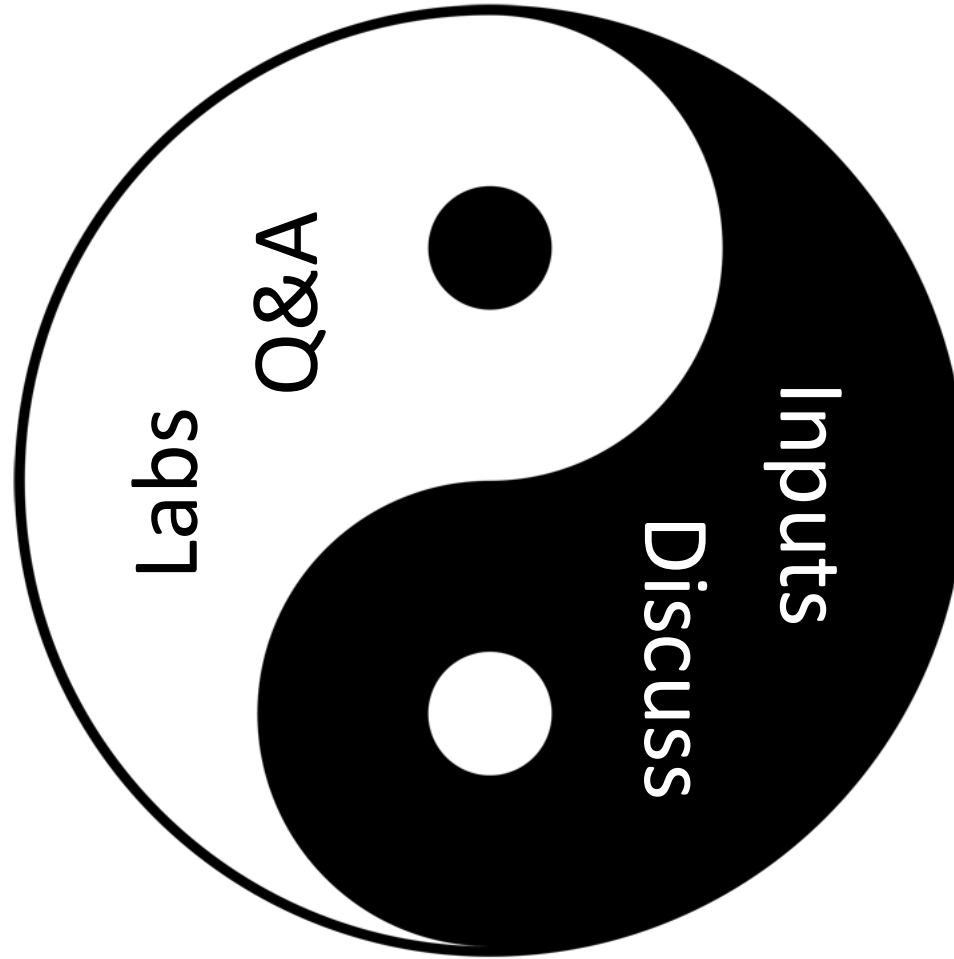- Before I tell you sth about our workshop ☺

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

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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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Timetable (approx.)

- 08:00 – 13:00 (incl. 15m-30m ☕ break)

Topics

Intro, IDE Intro, TypeScript Speedrun, Angular Intro	RxJS, Signals, Modules & Standalone Components	Templ. Dr. / Reactive Forms
Components, Services, Pipes	Components Deep Dive	Routing, Performance

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Setup for Labs I

- NodeJS version **18.19**.x (and higher 18)
  - 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
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
17.3.x	^18.13.0 || ^20.9.0	>=5.2.0 <5.5.0	^6.5.3 || ^7.4.0
17.1.x || 17.2.x	^18.13.0 || ^20.9.0	>=5.2.0 <5.4.0	^6.5.3 || ^7.4.0
17.0.x	^18.13.0 || ^20.9.0	>=5.2.0 <5.3.0	^6.5.3 || ^7.4.0

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

Try "node -v"

Windows / Linux: Use NVM ☺

Mac Users: Use Homebrew 🍺

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Setup for Labs II

- Git
  - Personally I liked to use Sourcetree → now Tower

- 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
  - we recommend to at least commit after every lab
  - easier switching back and forth with my solution

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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

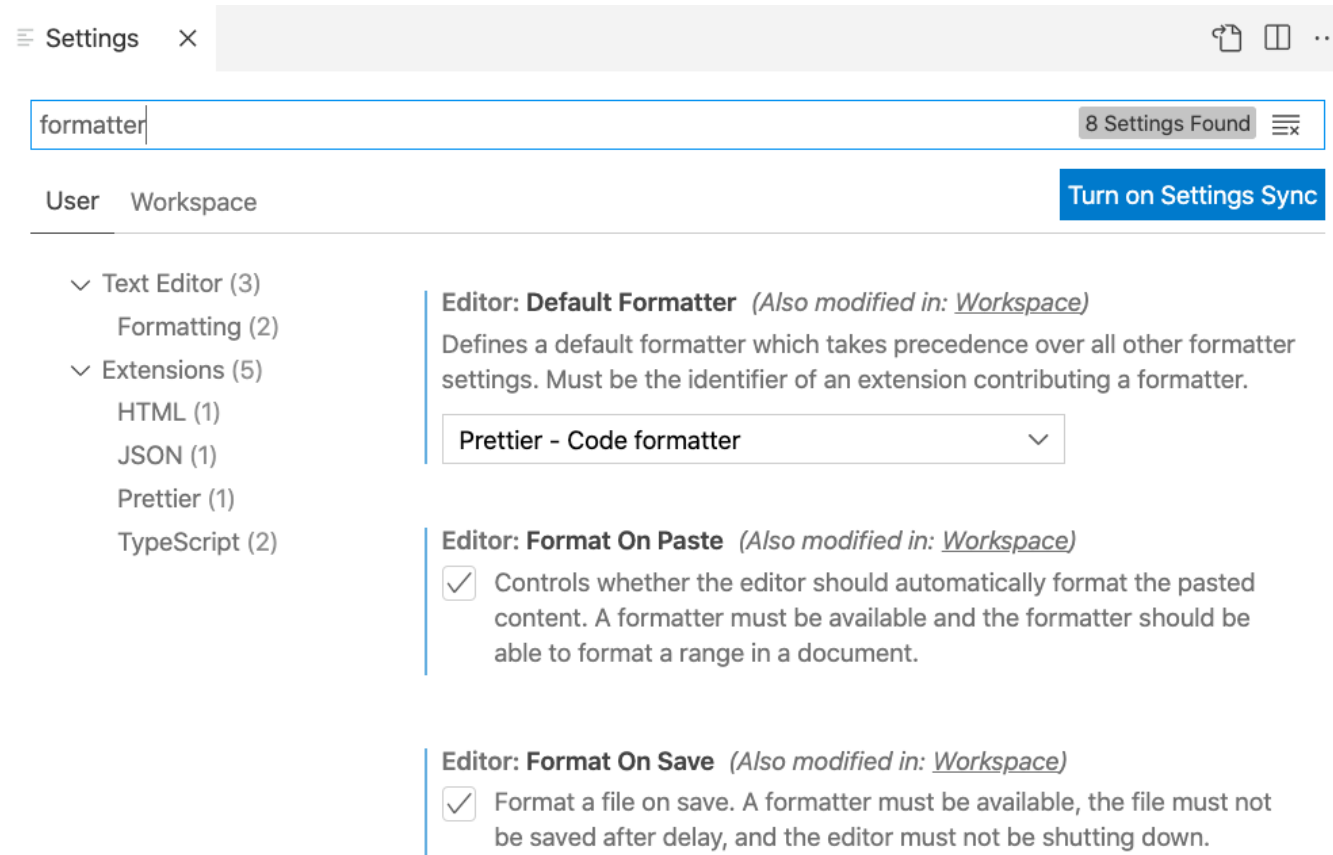- Optional: If you're using VSCode you may add the plugins mentioned

1 more thing: Web-/PhpStorm auto import
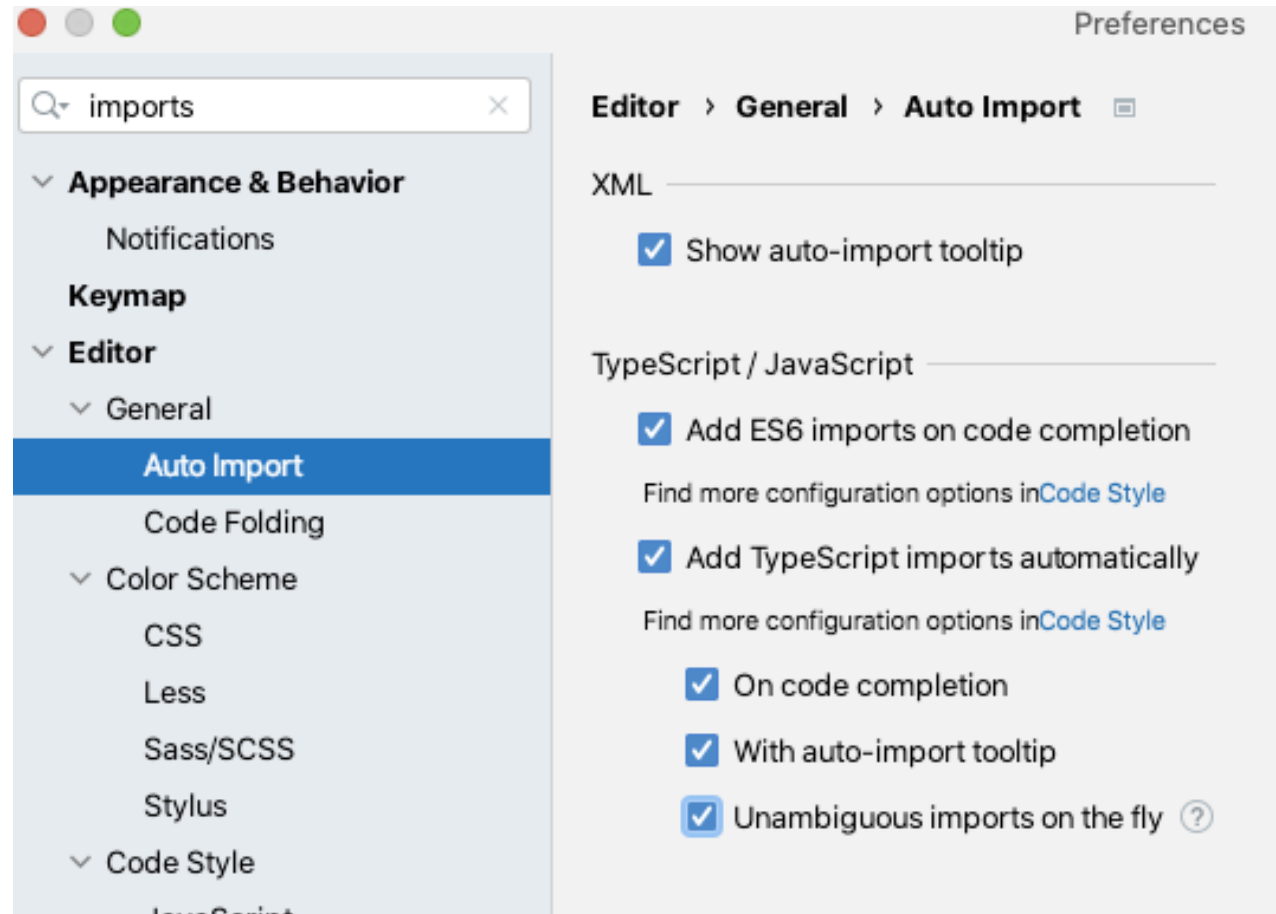
1 more thing: WebStorm prettier
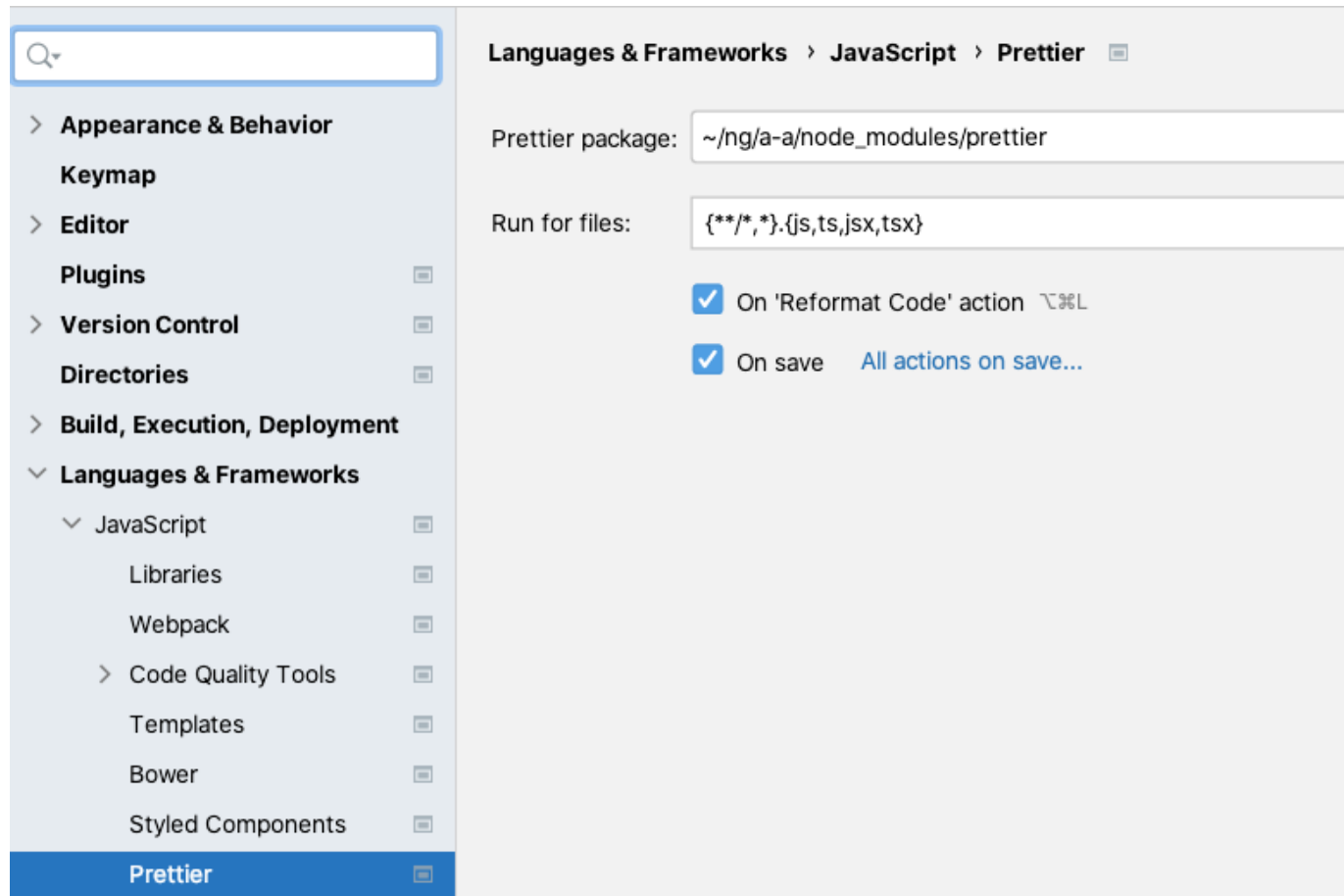
1 more thing: VS Code Prettier

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-with-html5-and-css3/

- Or all together premium course with mentor
  - https://www.udacity.com/course/front-end-web-developer-nanodegree--nd0011

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Day 1 – Intro & Building Blocks

- Introduction

- Overview & Speedrun TypeScript

- Angular Introduction

- Angular Services

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Day 2 – Aysnc & Components

- Angular Pipes

- 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
  - AAAND new control flow

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Day 3 – Forms, Routing & Performance

- Forms & Validation
  - Template driven Forms
  - Reactive Forms

- Routing

- Performance
  - Lazy Loading
  - CD OnPush

- Recap & Feedback

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