



# Angular 11 & 12

Hosted by Alex Thalhammer

# Outline

- NG 9-10:
  - Main focus on Ivy
  - Typescript 3.7-3.8
    - Optional chaining
      - Using the ?. Operator like „this.member?.submember“
      - instead of „if (this.member) this.member.submember“
- NG 11: Overview
- NG 12: In detail
- One more thing 😊



ANGULAR  
**ARCHITECTS**  
INSIDE KNOWLEDGE



SOFTWARE  
**ARCHITECT**

# Angular 11 – Overview

- Even faster compilation
- Start moving to ESLint
- Webpack 5 optional with yarn
- Typescript 4.0
- Testing
  - Harnesses for all components (single NG9 for Material)
  - parallel function, performance improvements, new APIs, manualChangeDetection



ANGULAR  
**ARCHITECTS**  
INSIDE KNOWLEDGE



SOFTWARE  
**ARCHITECT**

# Angular 12 – Features I

- ESLint now default in CLI
- Webpack 5 now default
  - Module Federation
  - Performance improvement
- Typescript 4.2



ANGULAR  
**ARCHITECTS**  
INSIDE KNOWLEDGE



SOFTWARE  
**ARCHITECT**

# Angular 12 – Features II

- Nullish Coalescing
  - `{{ age !== null && age !== undefined ? age : calculateAge() }}`
  - `{{ age ?? calculateAge() }}`
- Enables strict mode per default
  - <https://angular.io/guide/strict-mode>
  - <https://blog.angular.io/with-best-practices-from-the-start-d64881a16de8>



ANGULAR  
ARCHITECTS  
INSIDE KNOWLEDGE



SOFTWARE  
ARCHITECT

# Angular 12 – Deprecation

- Deprecation of IE11
  - NG 13 will get rid of it
- ViewEngine deprecation
  - Ng Libs use Ivy per default



ANGULAR  
**ARCHITECTS**  
INSIDE KNOWLEDGE



SOFTWARE  
**ARCHITECT**

# One more thing: Angular Dev Tools

- Successor of Augury
- Find them here
  - <https://angular.io/guide/devtools>
- Demo



ANGULAR  
**ARCHITECTS**  
INSIDE KNOWLEDGE



SOFTWARE  
**ARCHITECT**