



Angular 11 & 12

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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 😊



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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



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Angular 12 – Features I

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



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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>



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Angular 12 – Deprecation

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

Angular 13 – Outlook

- Remove IE 11 support



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