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ARCHITECTS
INSIDE KNOWLEDGE

Advanced TypeScript

Introduction



About Me...



- Rainer Hahnekamp
ANGULARarchitects.io
- Trainings and Consulting



<https://www.youtube.com/c/RainerHahnekamp>



<https://www.ng-news.com>



@RainerHahnekamp



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Goals

- Advanced Typescript for
 - application developers
 - library developers
- Focus on practical topics
- "Don't just watch, do it!"



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Housekeeping

- 3 Units
- 15 minutes breaks
- 9.00 (MEZ) - 16.30 (CEST)
- 1 hour lunch break from 12.00 - 13.00
- <https://github.com/rainerhahnekamp/2022-12-19-typescript-public>



Exercise-intensive workshop

Theory (Slides) &
Live Coding

Exercise Time
~ 40 minutes

Discussion of the
Solution



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Engage!



**I don't know everything,
but I'll try to look it up**



Agenda

Unit 1

- Types
- Miscellaneous
- Object vs. object
- Type narrowing
- Function Overloading

Unit 2

- Index access types
- typeof (TS-specific)
- keyof
- Generics
- Variance
- Utility types

Unit 3

- Conditional types
- Mapped types
- Template literal types

Application developer

Library developer



Introduction Round

- Who are you?
- What do you do in your job?
- What are you interested in particular (in Typescript)?



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Before we start...

- Mind the difference between type and value
- Rules are not always that obvious
 - JavaScript's rules are the basis
- TypeScript ends after the compilation
- Error messages might not always reveal the real reason
- Advanced features are still extended

