







Introduction









About Me...



Rainer Hahnekamp









https://www.youtube.com/@RainerHahnekamp



https://www.ng-news.com



https://github.com/softarc-consulting/sheriff



Goal

- Cover major testing technologies and techniques
- Understanding trade-offs between unit/component/integration/e2e tests
- Try them out







Housekeeping

- 9.00 16.30 CEST
- 15 minutes breaks in morning and afternoon session
- GitHub Repo
- Solution Branch



Agenda

Part 1

E2E Testing

- Basics
- Advanced

Part 2

Unit Tests

- Asynchrony
- Mocking
- RxJs Marbles

Part 3

Component & Integration Tests

- TestBed
- Cypress Component Testing
- Fallback Power Tools
 - Harnesses
 - Spectator
 - Harnesses
- Visual Regression
- Testing Strategies



Exercise-intensive workshop

Theory (Slides) & Live Coding

Exercise Time ~ 40 minutes

Discussion of the Solution





Introduction Round

- 1. Who are you?
- 2. What do you do (in your job)?
- 3. What topic(s) interests you the most?



Outside-In Tests

Integration Tests

State-Driven Tests

Inside-Out Tests

Wide Tests

Sociable Tests

Behaviour-Driven Tests

Isolated Tests

Narrow Tests

Laser Tests

Component Tests

Solitary Tests

Flashlight Tests

Unit Tests

Integrated Tests





End-to-End (E2E) Tests

Integration & Component Tests

Unit Tests



Component

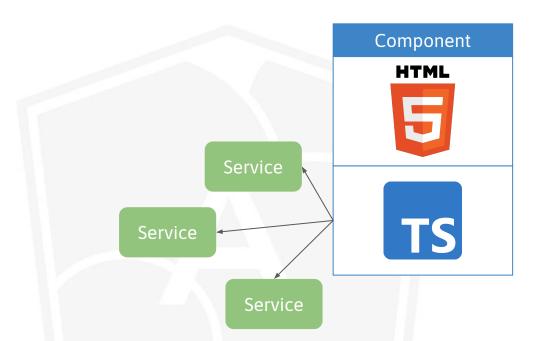




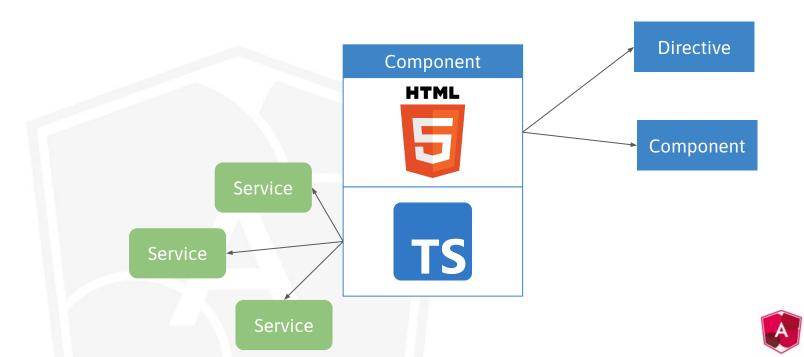




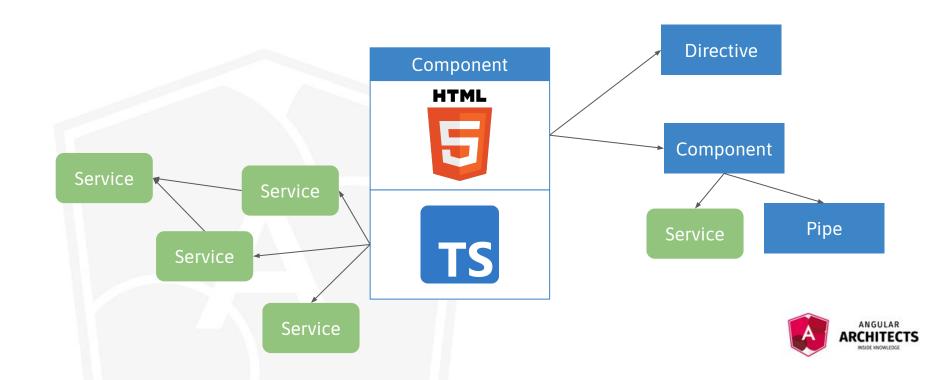






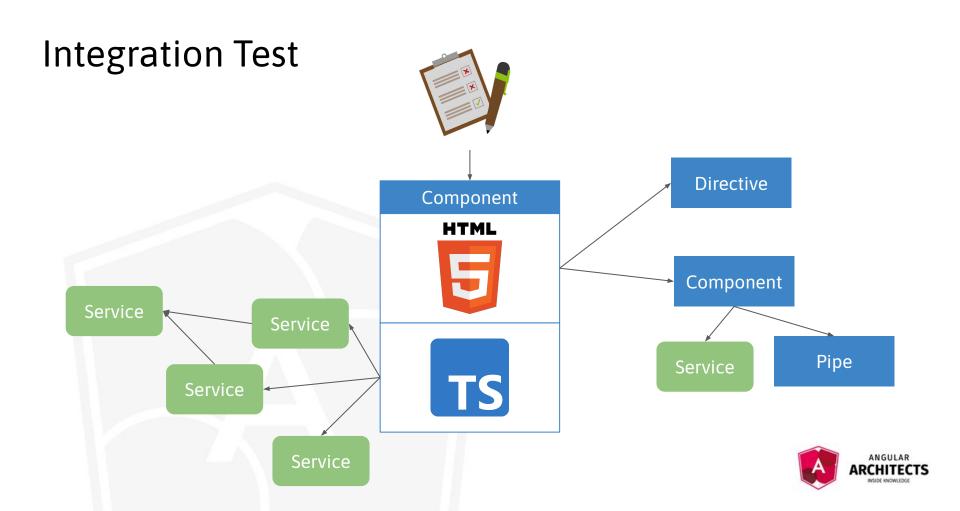


ANGULAR ARCHITECTS INSIDE KNOWLEDGE

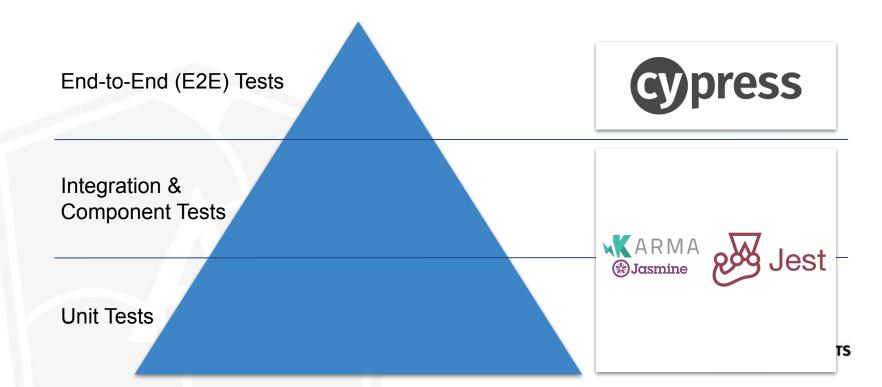


Unit Test Component HTML TS ANGULAR ARCHITECTS INSIDE KNOWLEDGE

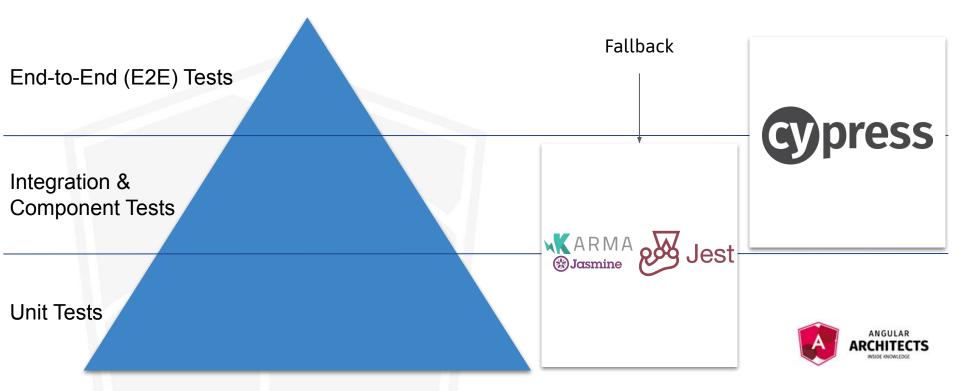
~Component Test Component **HTML** 5 TS ANGULAR **ARCHITECTS**



Classic testing pyramide



Testing pyramide with Cypress Component Test Runner





jasmine-core vs jest vs mocha vs vitest



Stats

	Stars	Issues	Version	Updated ③	Created ②	Size
jasmine-core 🕮 🐧 👄	15,484	31	4.5.0	2 months ago	9 years ago	
jest □□□ () ⇔	41,086	920	29.3.1	2 months ago	11 years ago	minzipped size 556.7 KB
mocha 💬 🗘 👄	21,840	285	10.2.0	a month ago	11 years ago	minzipped size 62.5 KB
vitest 🕮 🗘 👄	7,481	183	0.27.0	2 days ago	a year ago	bundlephobia 429

