







Introduction









About Me...



Rainer Hahnekamp









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



https://www.twitter.com/RainerHahnekamp





Goal

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



Housekeeping

- 4 Units per Day
- 15 minutes breaks
- 1 hour lunch break from 12.00 13.00
- GitHub Repo
- Solution Branch



Agenda

- E2E Tests
- Component Tests
 - Cypress
 - Testing Library
- Unit Tests
- Testing Strategies



Housekeeping

- 15 minutes breaks
- 16.00 (MEZ) 20.00 (MEZ)
- GitLab Repository



Agenda

Part 1 Unit Tests

- Introduction
- Asynchrony
- Mocking
- RxJs Marbles

Part 2 Component & Integration Tests

- Basics Test Bed
- Miscellaneous
 - Mocking Components
 - Test Setup
- PowerTools
 - Spectator
 - Testing Library
 - Harnesses
- Testing Strategies



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





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



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

Sociable Tests

Behaviour-Driven Tests

Isolated Tests

Laser Tests

Solitary Tests

Component Tests

Flashlight Tests

Unit Tests

Integrated Tests





End-to-End (E2E) Tests

Integration & Component Tests

Unit Tests



Component

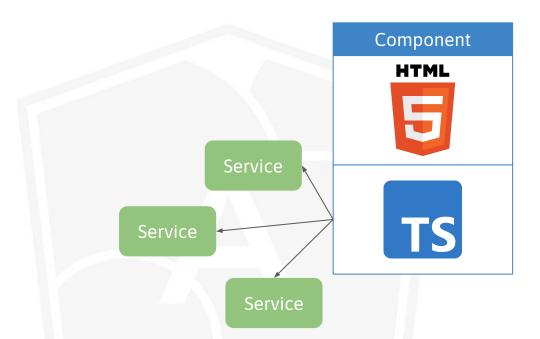




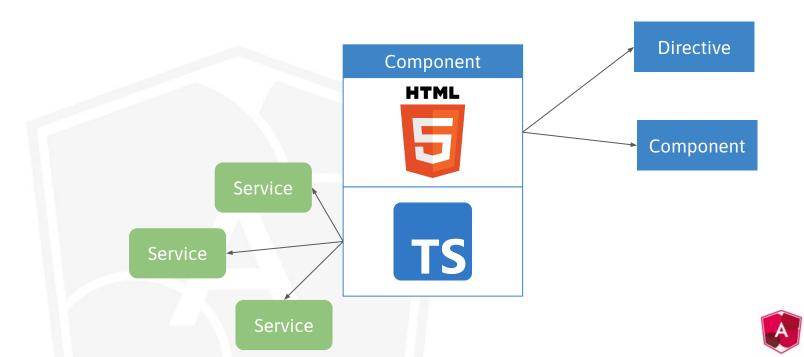




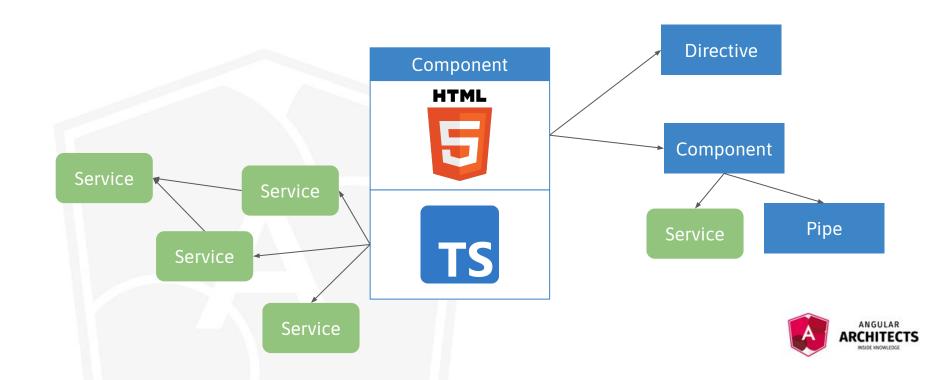






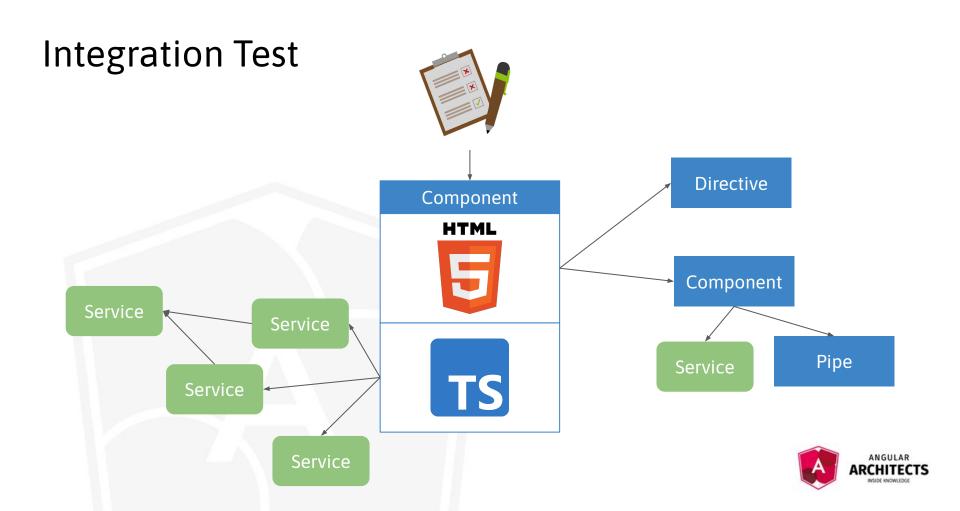


ANGULAR ARCHITECTS INSIDE KNOWLEDGE

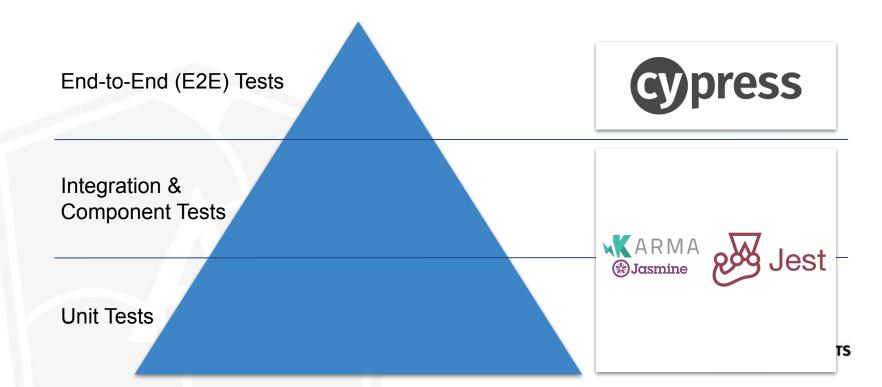


Unit Test Component HTML TS ANGULAR ARCHITECTS INSIDE KNOWLEDGE

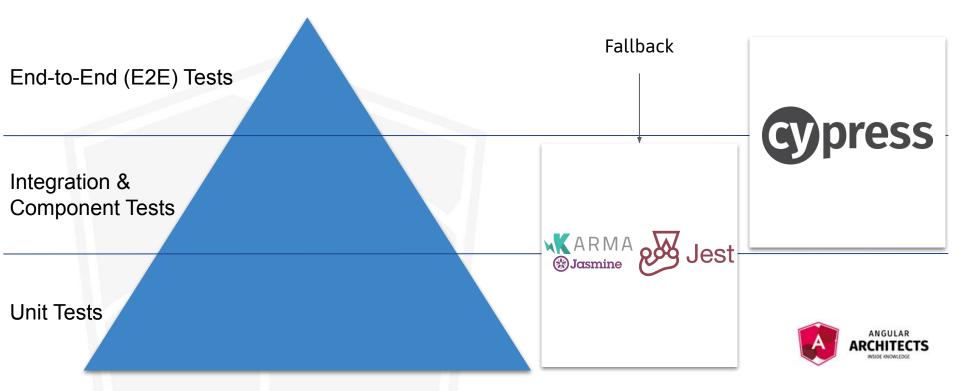
~Component Test Component **HTML** 5 TS ANGULAR **ARCHITECTS**



Classic testing pyramide

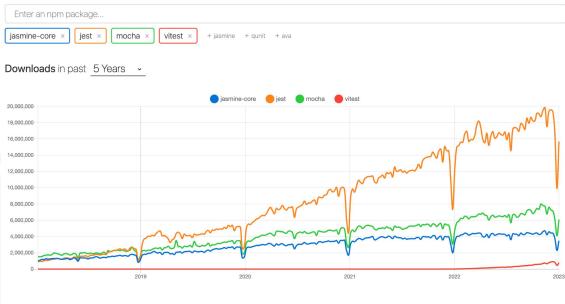


Testing pyramide with Cypress Component Test Runner





jasmine-core vs jest vs mocha vs vitest



Stats

	Stars	Issues	Version	Updated ②	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

