



Professional Angular Testing



1 - Introduction



About Me...



- Rainer Hahnekamp
ANGULARarchitects.io
- Trainings and Consulting



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



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



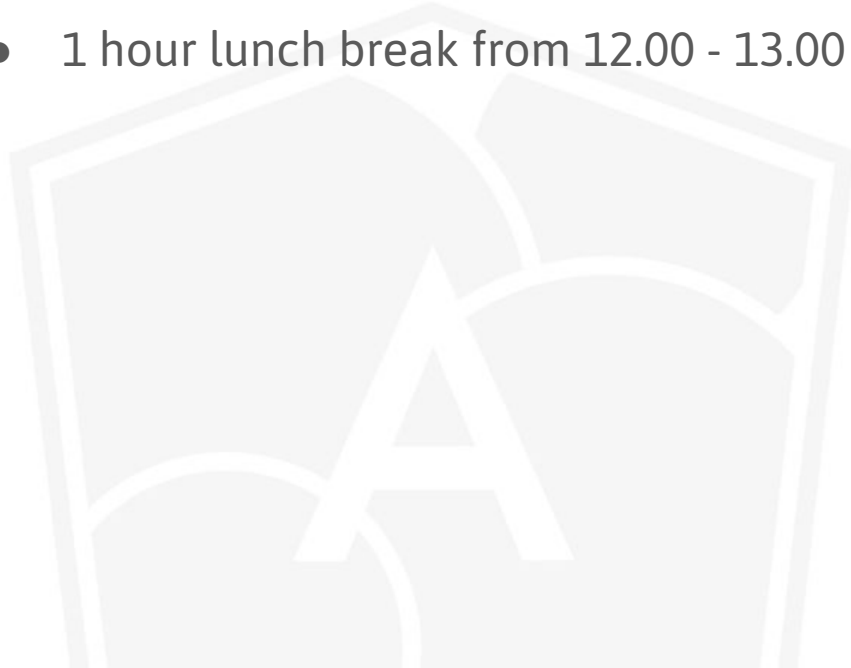
@RainerHahnekamp



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Organisational

- 4 Units per Day
- 15 minutes breaks
- 1 hour lunch break from 12.00 - 13.00



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Goal

- Cover major testing technologies and techniques
- Trade-Offs between Unit and Integration tests
- Try them out



Schedule

- 13.30 - 17.30
- 1 x 15 minutes break



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Agenda

Day 1 Unit Tests

- Introduction
- Asynchronicity
- Mocking
- RxJs Marbles

Day 2 Component & Integration Tests

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

Day 3 E2E & Visual Regression

- End-to-End Tests
 - Basic
 - Advanced
- Visual Regression
- Storybook



Exercise-intensive workshop

Theory (Slides) &
Live Coding

Exercise Time
~ 40 minutes

Discussion of the
Solution



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Engage!



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Introduction Round



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Outside-In Tests

Integration Tests

State-Driven Tests

Inside-Out Tests

Sociable Tests

Behaviour-Driven Tests

Isolated Tests

Laser Tests

Component Tests

Solitary Tests

Flashlight Tests

Unit Tests

Integrated Tests



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End-to-End (E2E) Tests

Integration &
Component Tests

Unit Tests



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Component



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Component



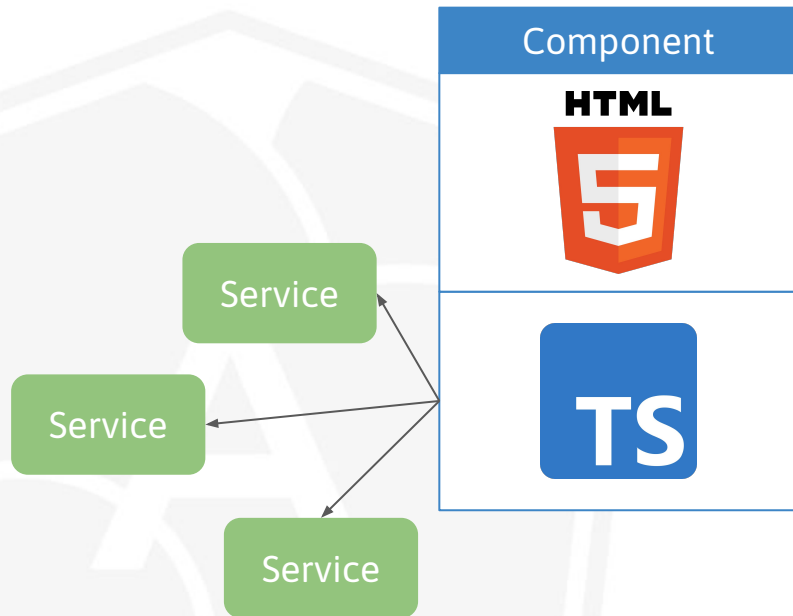
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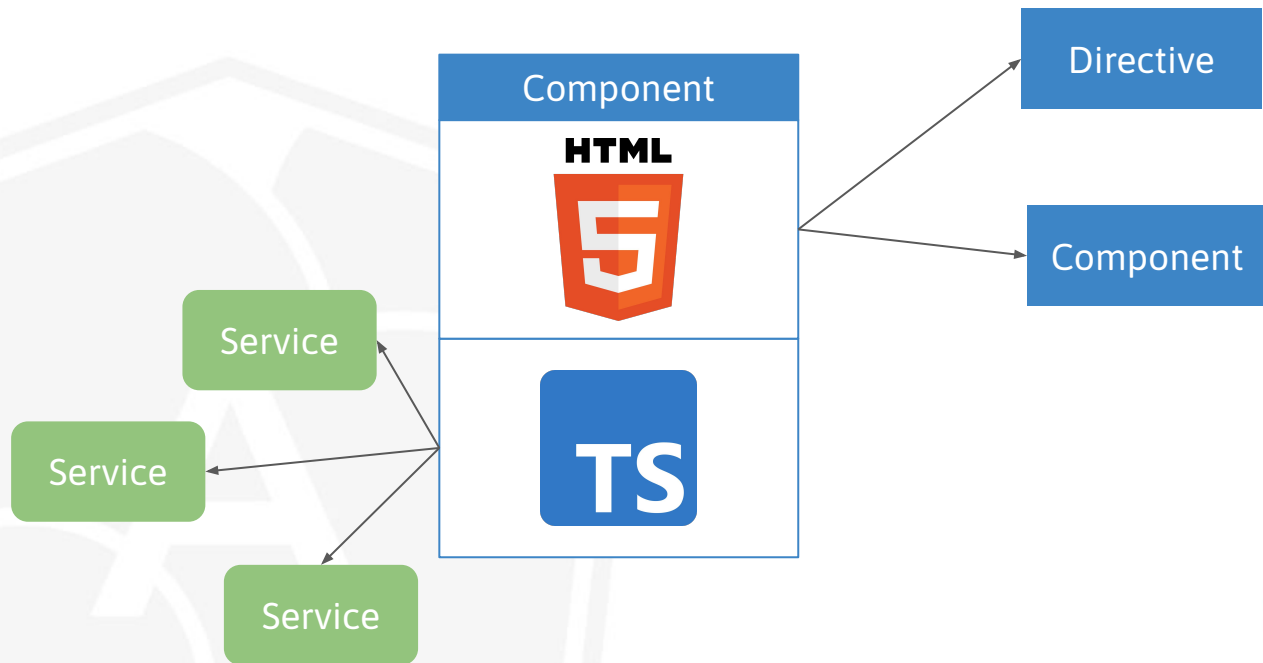
Component

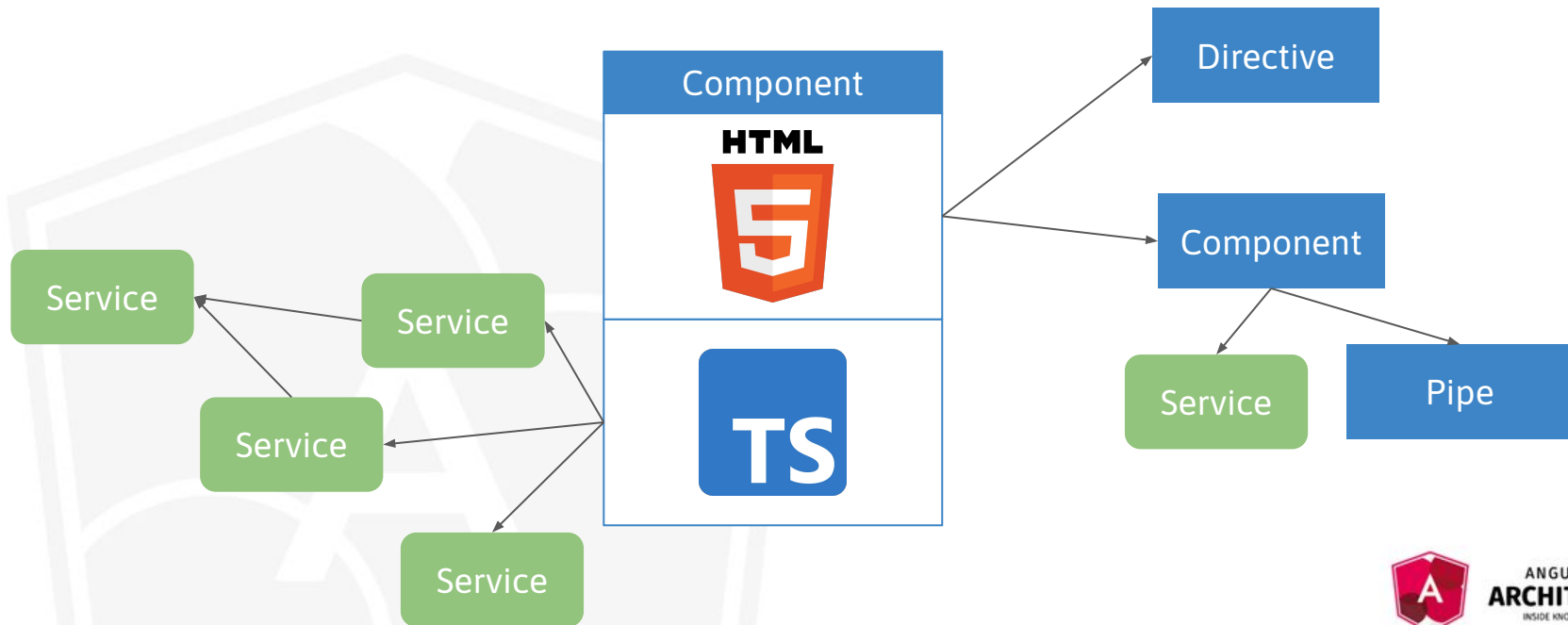
HTML



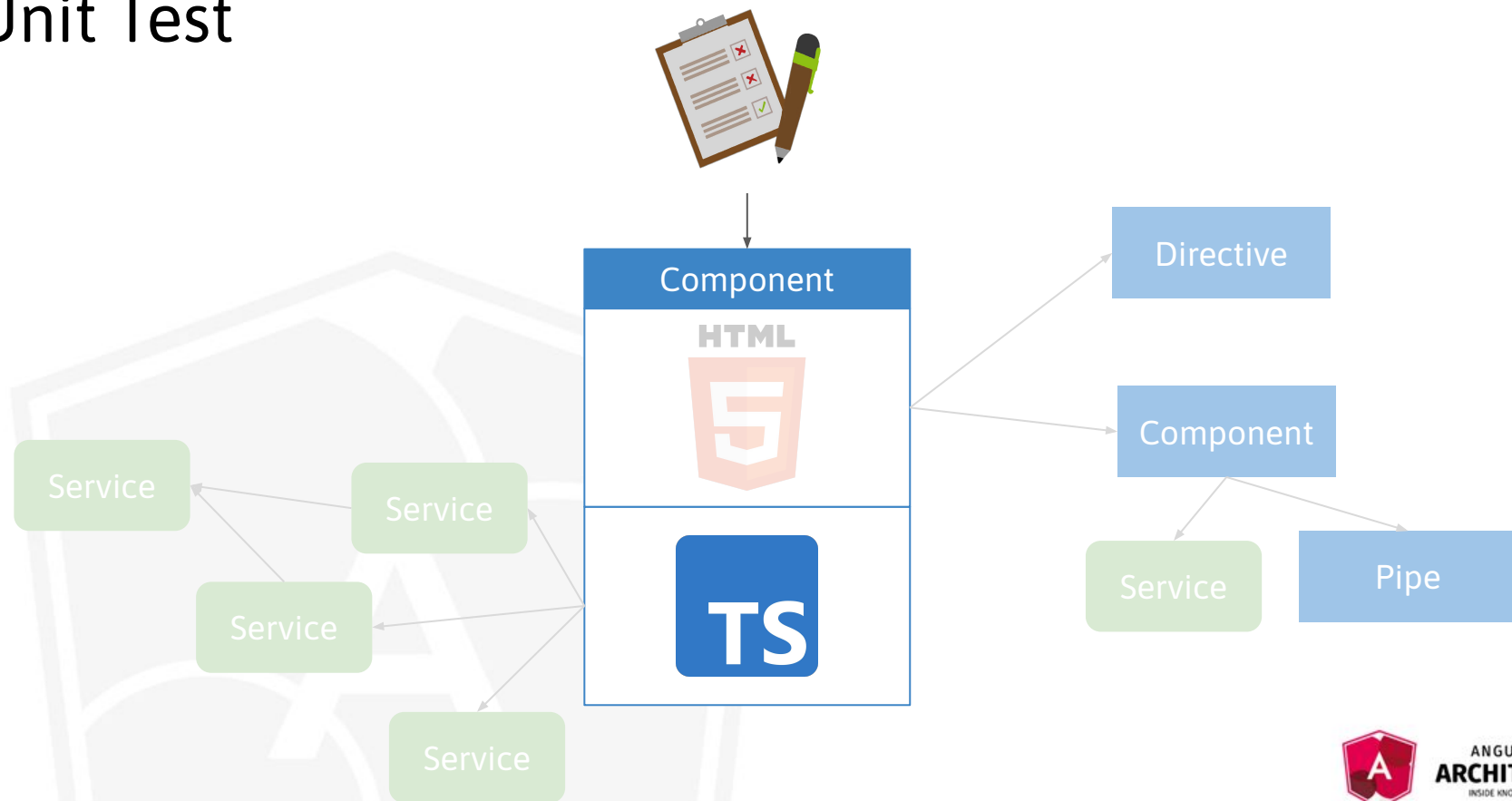
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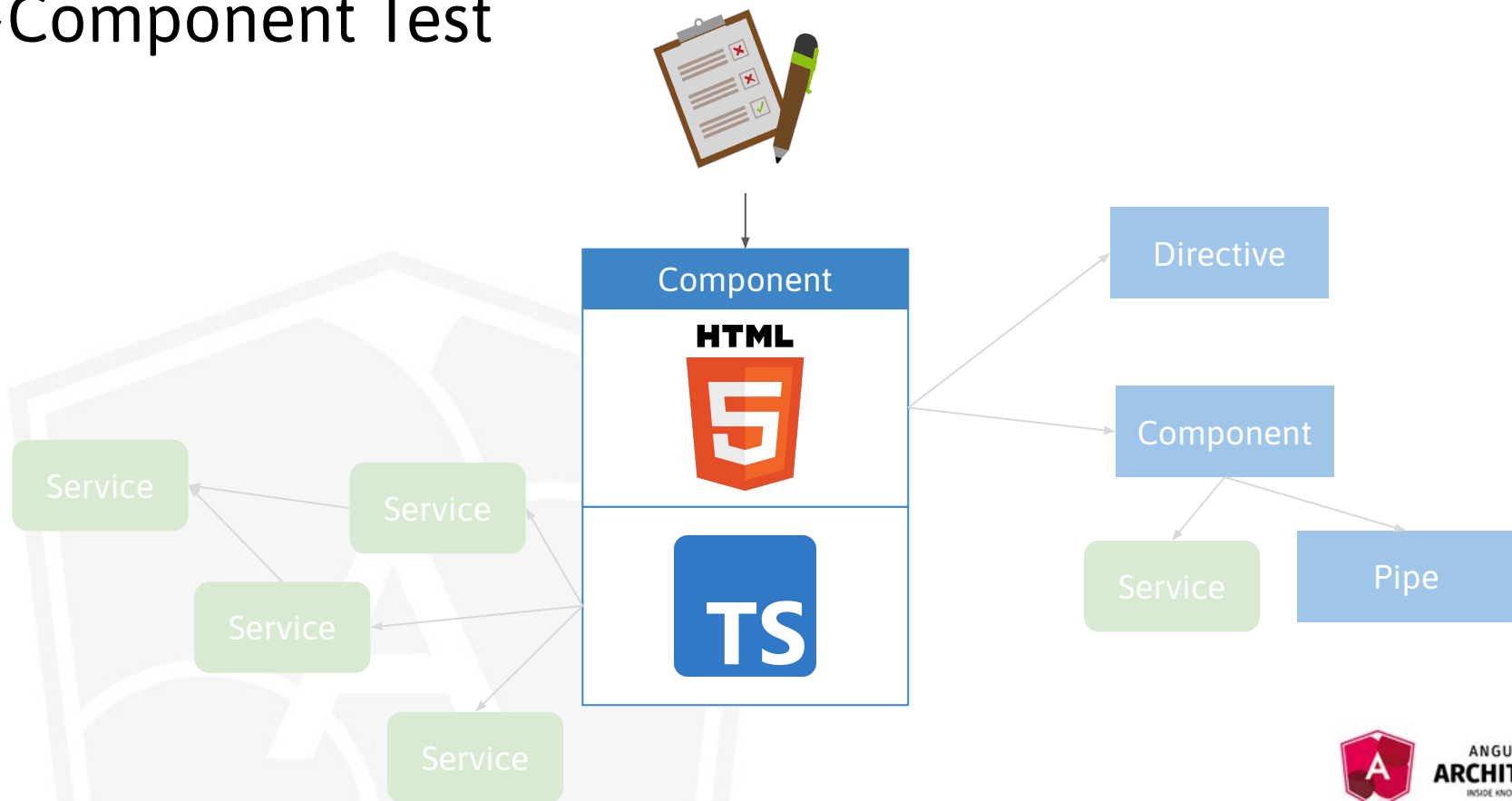




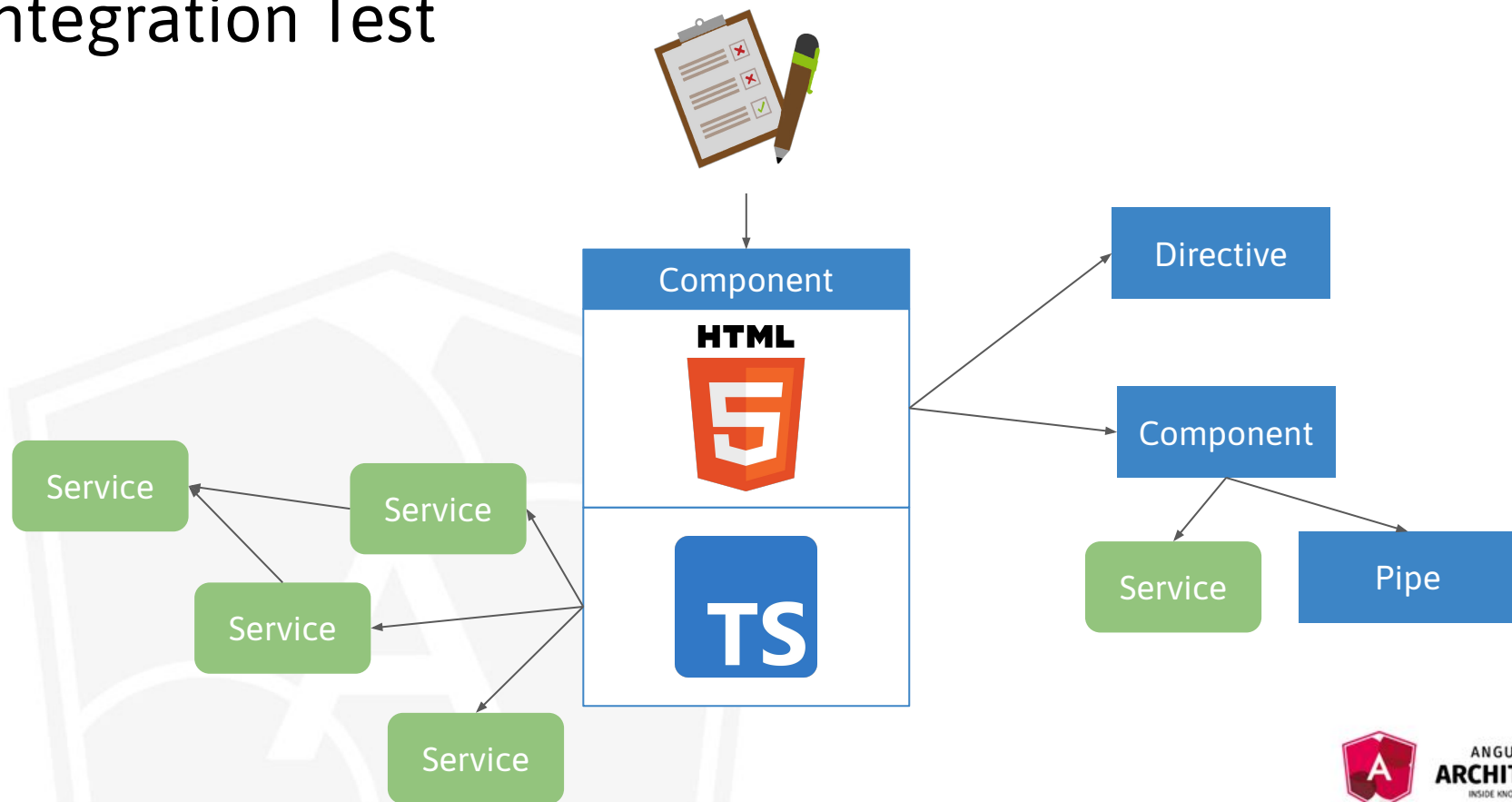
Unit Test



~Component Test



Integration Test



The "Official" Version

End-to-End (E2E) Tests

Integration &
Component Tests

Unit Tests

Deprecated since Angular 12



Protractor

end to end testing for AngularJS



Jasmine



KARMA



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The "Better" Version



End-to-End (E2E) Tests

Integration &
Component Tests

Unit Tests

The Cypress logo, consisting of the word 'cypress' in a bold, lowercase, sans-serif font, with the 'c' in a dark circle.



The Jest logo, featuring a stylized red 'J' with a crown on top, followed by the word 'Jest' in a red, sans-serif font.

jasmine-core vs jest vs mocha vs vitest

Enter an npm package...

jasmine-core x

jest x

mocha x

vitest x

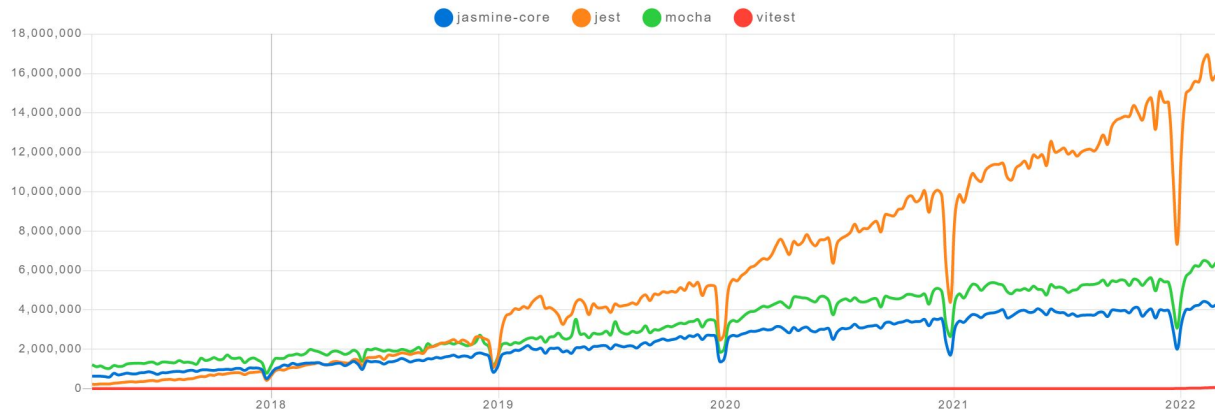
+ jasmine

+ qunit

+ ava

+ chai

Downloads in past 5 Years



Stats

			Stars	Issues	Version	Updated ?	Created ?	Size
jasmine-core	npm	github	15,295	53	4.0.1	a month ago	8 years ago	minzipped size 26.5 KB
jest	npm	github	38,190	1,590	27.5.1	a month ago	10 years ago	bundlephobia 429
mocha	npm	github	21,204	262	9.2.2	11 days ago	10 years ago	minzipped size 63.5 KB
vitest	npm	github	3,527	89	0.7.7	a day ago	4 months ago	bundlephobia 429

