HANDS ON INTRODUCTION TO ANGULAR

Please install:

NodeJS: nodejs.org
To check, run: "node -v"

AngularCLI: "npm install -g @angular/cli"

Commands we will be using found here:
goo.gl/atpksQ

HANDS ON INTRODUCTION TO ANGULAR

"the best way to get the right answer on the internet is not to ask a question; it's to post the wrong answer."

:: Ward Cunningham, father of the wiki ::

WHICH FRAMEWORK IS THE BEST?!?

TODAY'S GOALS

Why Angular

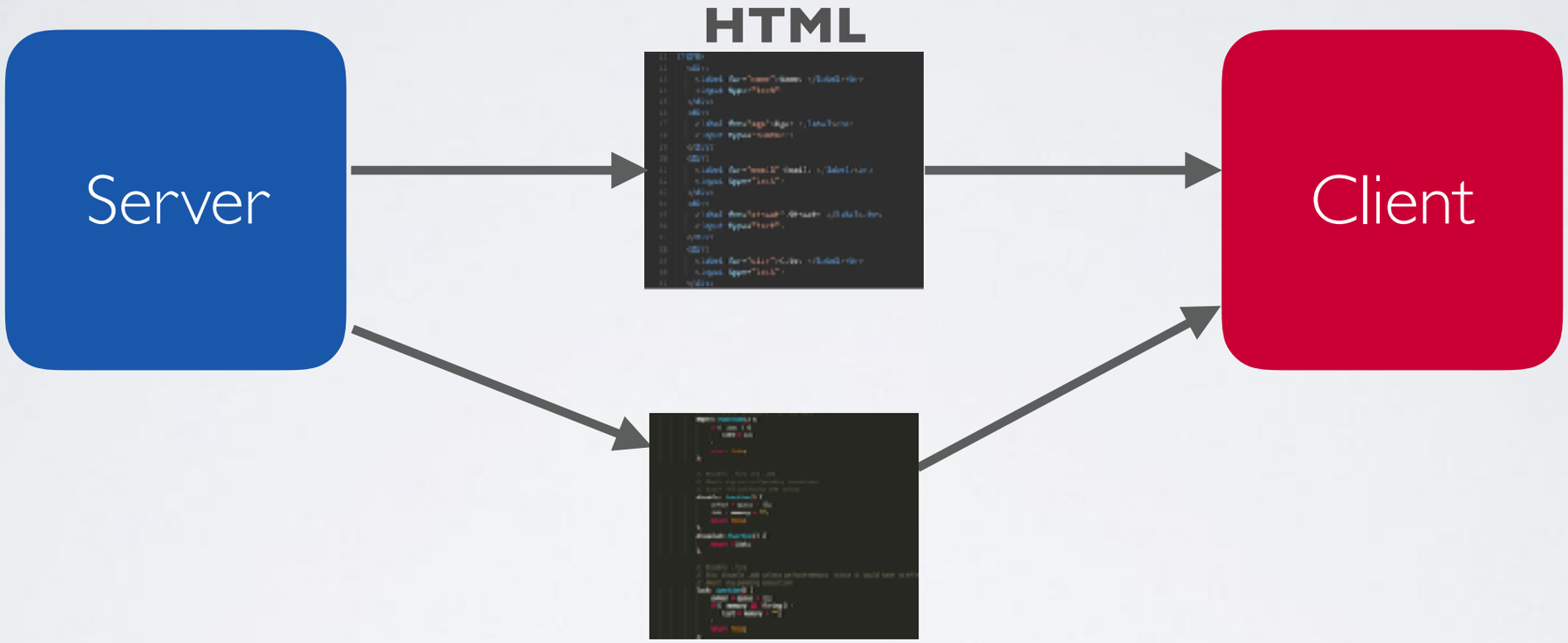
High level overview

Hands on with your first app

Attractive Features

WHY ANGULAR

Why the rise of JS frameworks?



WHY ANGULAR

ADVANTAGES

- Front end decoupled from back end code: Replaces server side templating engines plus JQuery approach (Java - JSTL, .Net Razor, Python Jinja)

- Code Organization (Components) & Productivity

- Rapid Development & CLI code generation

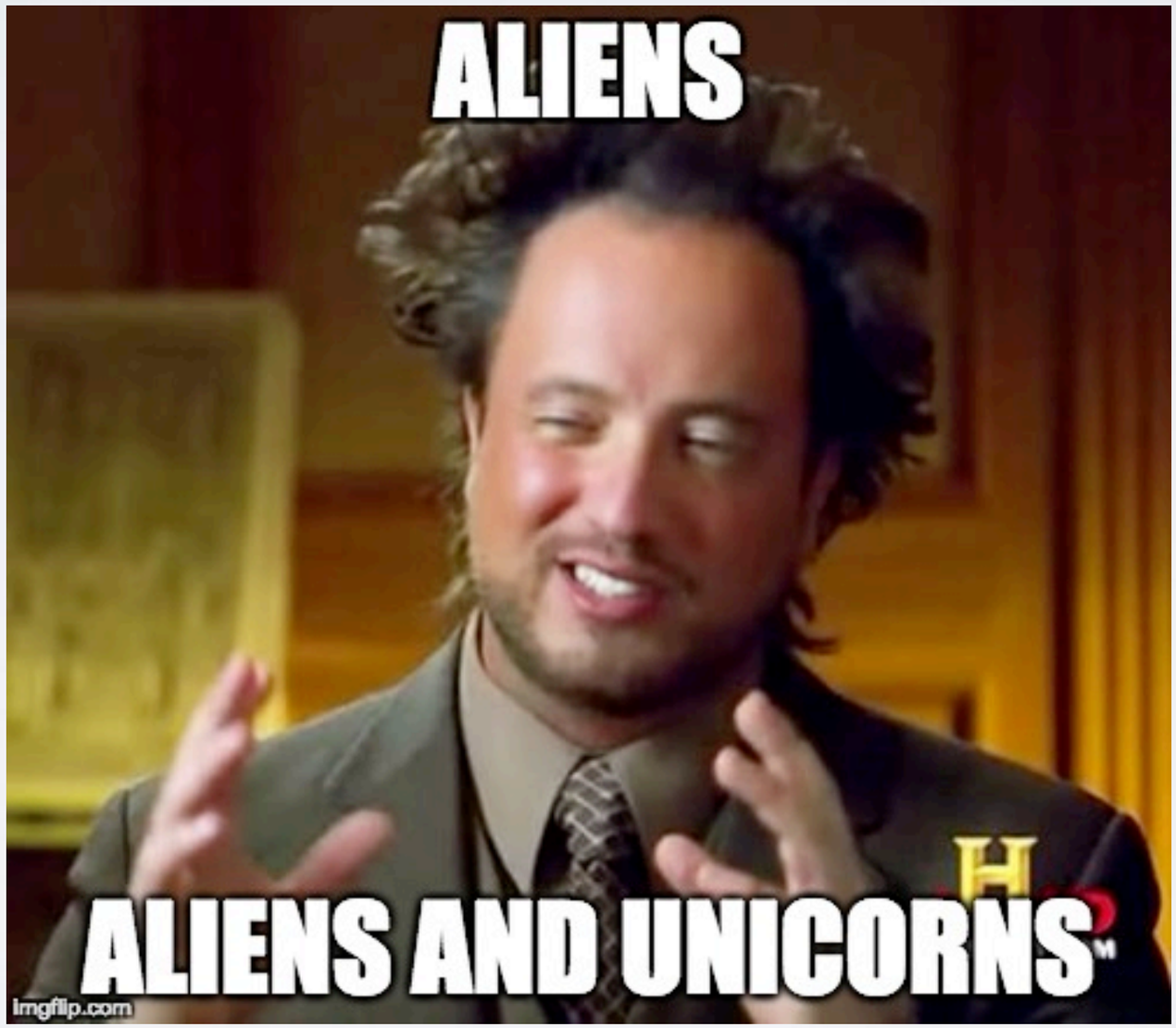
- Dynamic Content in HTML template

- Unit Testing Ready

- Cross Platform (browsers, device)

What is Angular

How was Angular made, what is the special sauce?



What is Angular

- JavaScript framework to build powerful single page apps

- Created and maintained by Google

- MEAN (MongoDB, Express, Angular, Node) stack

What is Angular

ANGULAR VERSION HISTORY

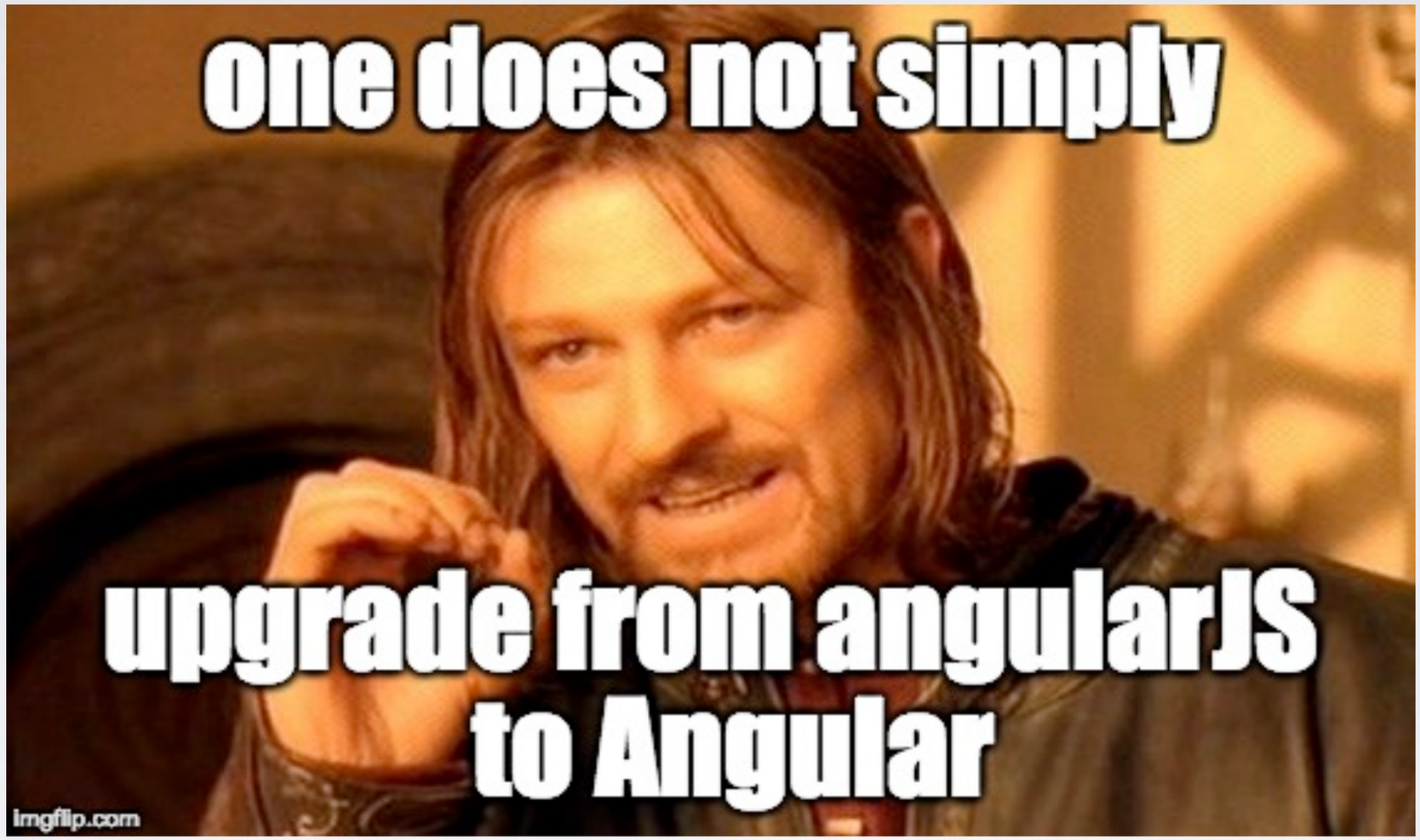
- AngularJS / Angular 1.x.x

- Angular 2 : Complete rewrite, breaking change

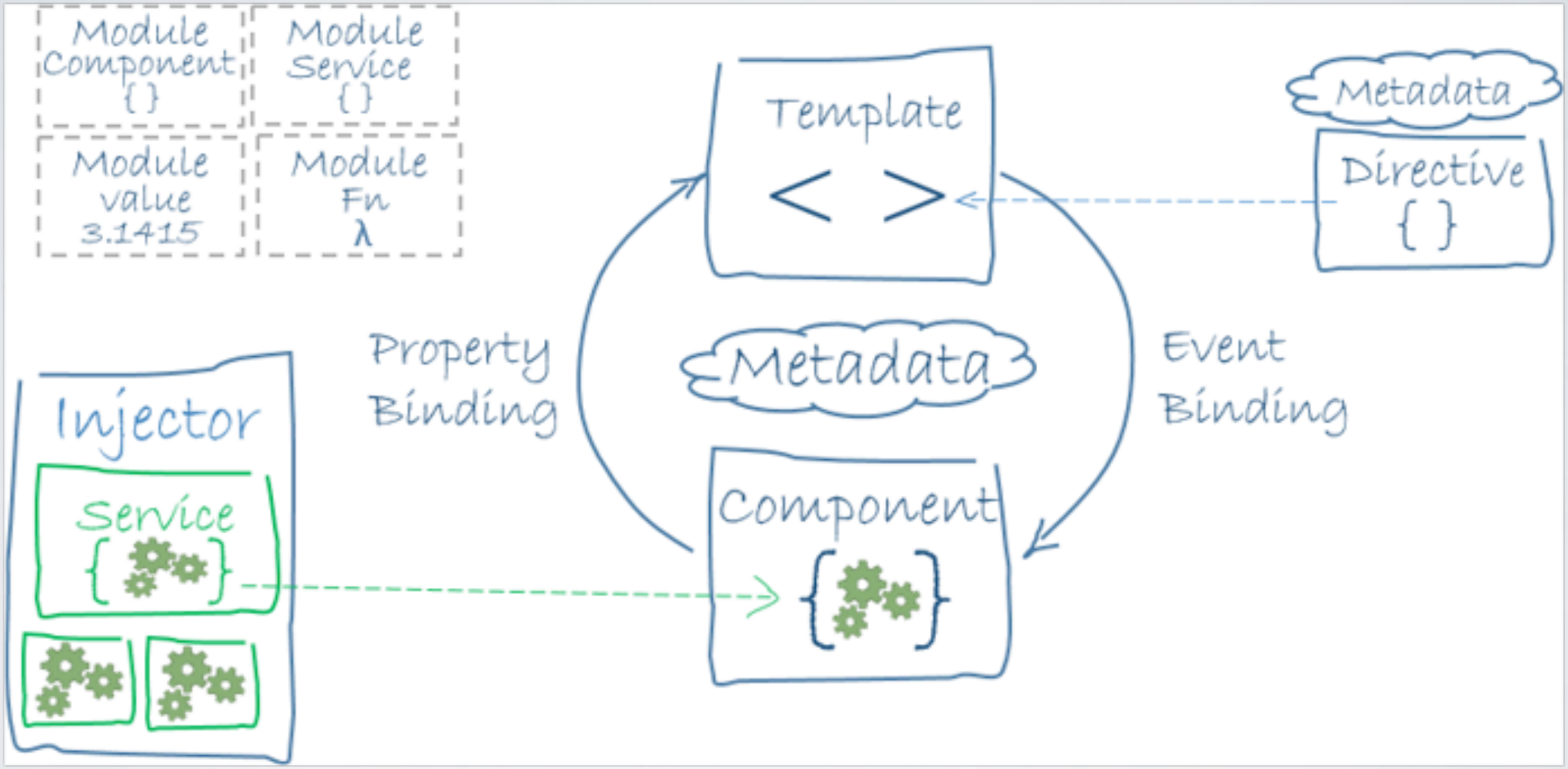
- Angular 3: Skipped since @angular/router was ahead

- Angular 4: Present (Backward compatible with Angular 2)

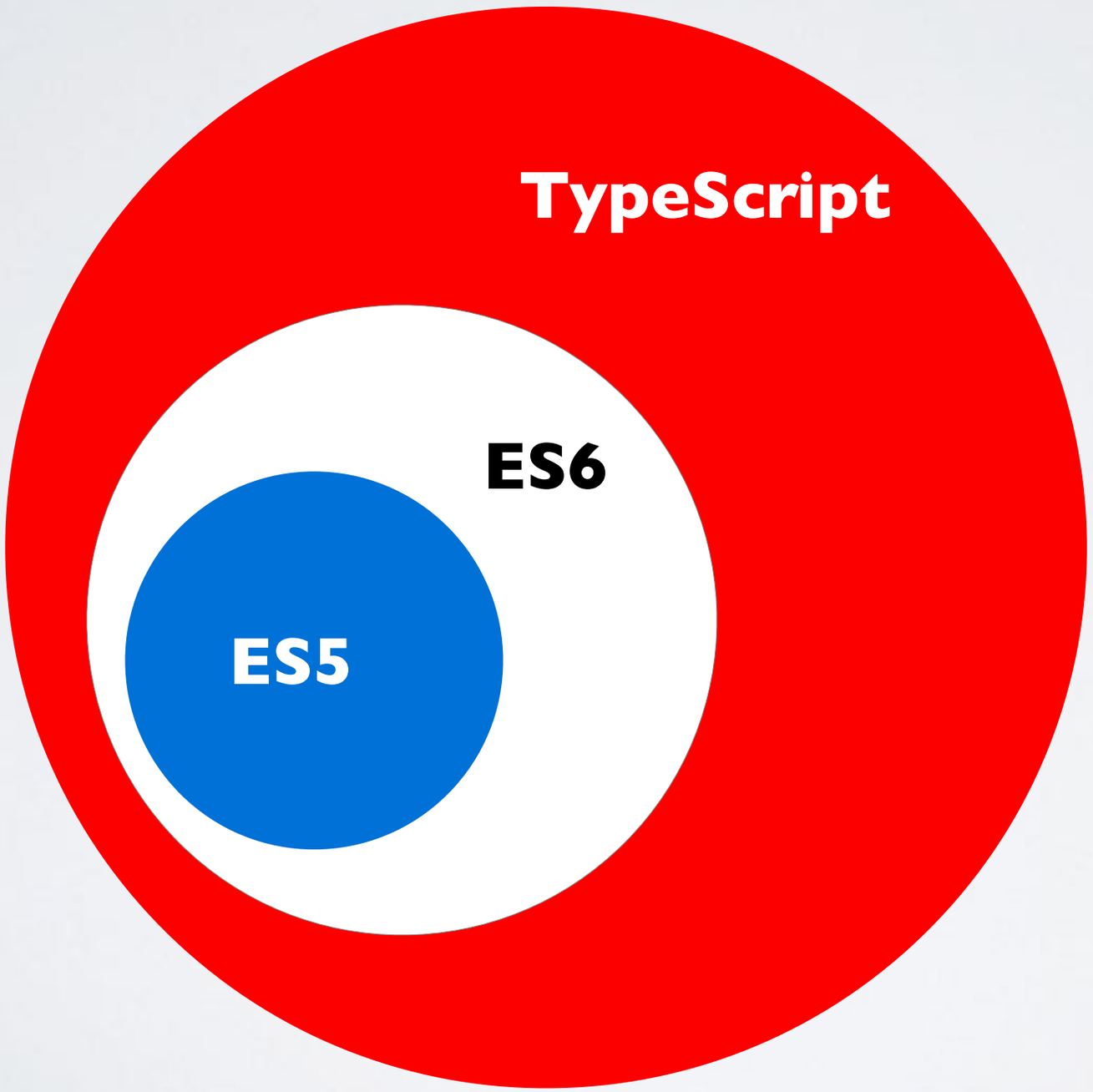
What is Angular



What is Angular



WHAT IS TYPESCRIPT?



WHAT IS TYPESCRIPT?

- Created by Microsoft
- Superset of JavaScript with additional features
- Optional Static Typing
- Class based syntactical sugar over JS prototypical inheritance

- Angular is written in a superset of JavaScript called TypeScript
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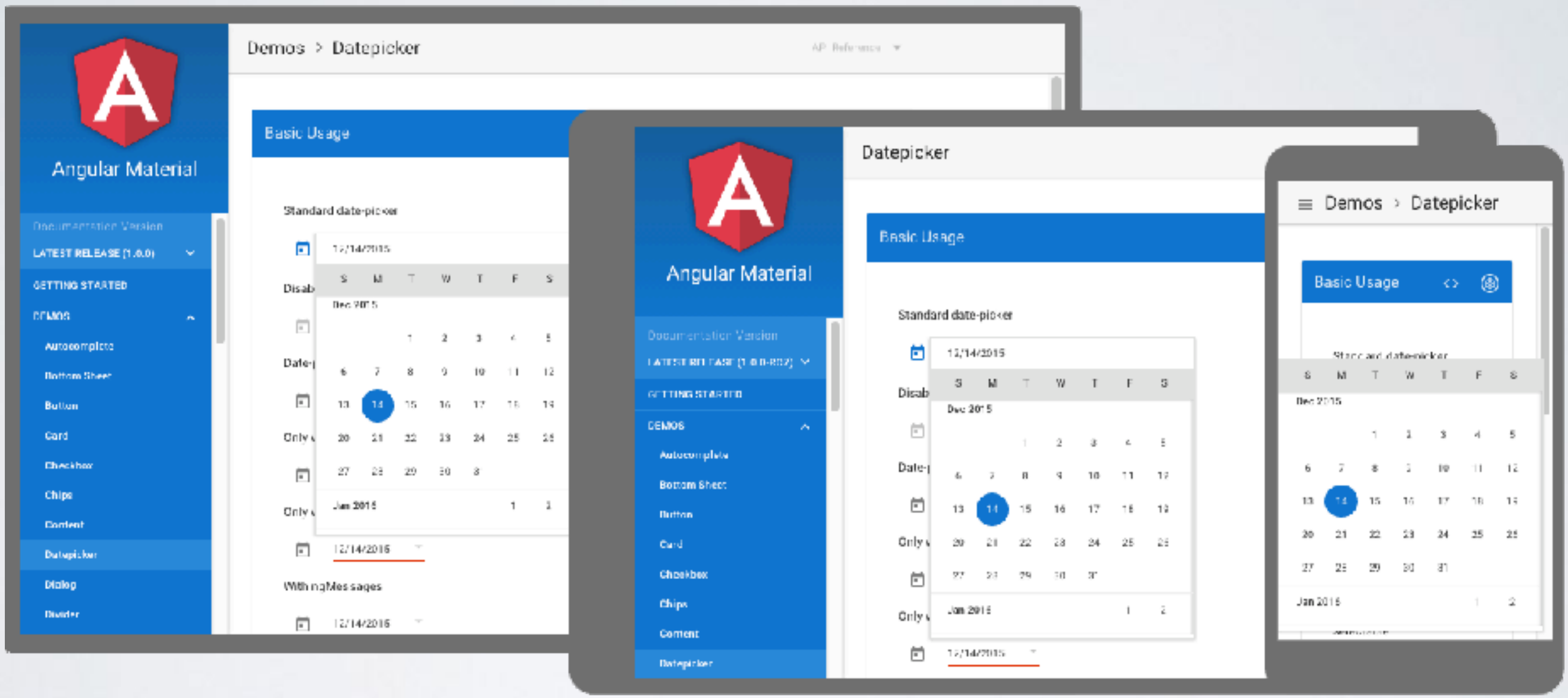
- VS Code is written in TS
- Browser can't run TypeScript so we first need to transpile it into JavaScript.
- TS comes with a transpiler that allows us to
  target specific versions: ES3, ES5, ES6

Things that play nice with Angular

Material Design UI Library for Angular



material.angular.io

Things that play nice with Angular

AngularFire

github.com/angular/angularfire2

RFP - Observable Streams

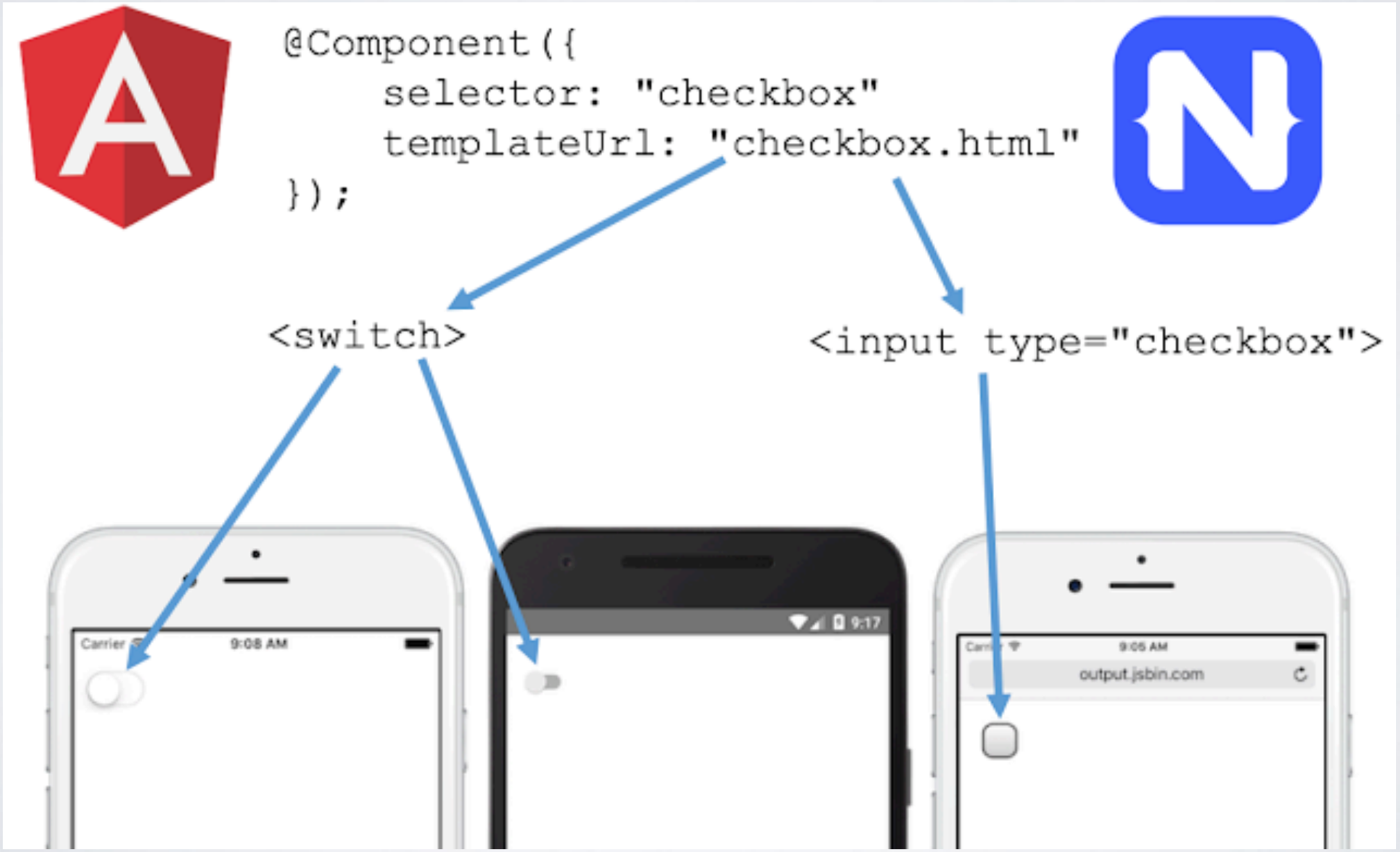
ReactiveX

Javascript implementation: Rxjs

http://reactivex.io/rxjs/

Things that play nice with Angular

Angular + NativeScipt = Cross Mobile



Let's make an Angular app!

Resources:

Great Free online tutorial: https://codecraft.tv/courses/angular/

Additional resources:

https://github.com/apasternack/Presentations/tree/master/HandsOnIntroToAngular

THE END

STAY IN TOUCH

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