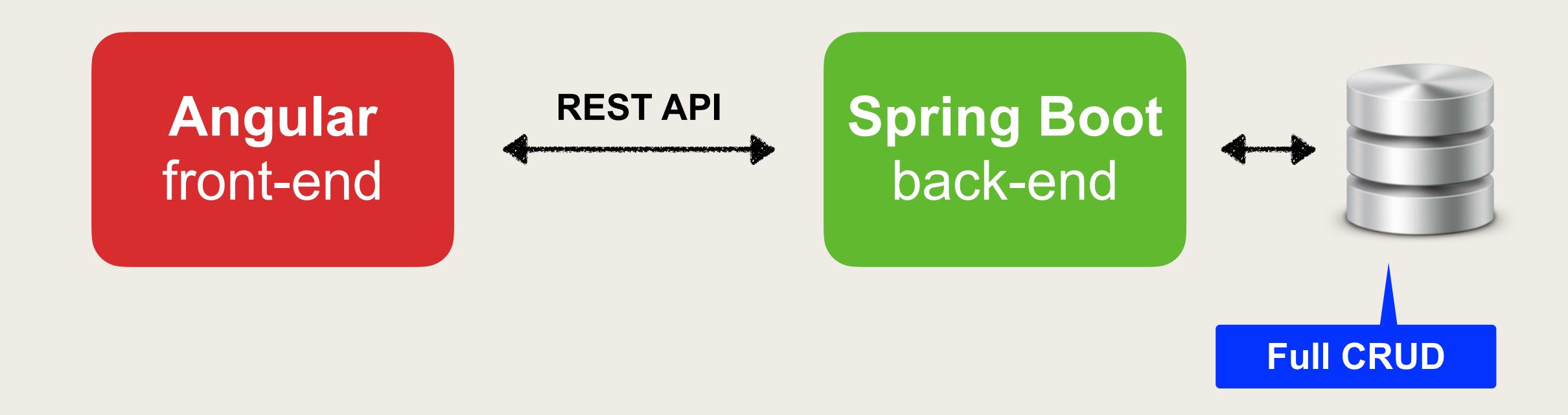
Angular and Spring Boot



Course Objective

Build a Full-Stack application with Angular and Spring Boot



Prerequisites

- You should have prior experience with
 - Java
 - Spring Boot
 - Maven

Spring & Hibernate for Beginners

- NO prior experience needed for Angular
 - We will teach you Angular from the beginning :-)
 - · Not an A-Z coverage of Angular ... but enough to build Full-Stack apps

Course Road Map

- Angular Overview
- Set up Development Environment
- TypeScript Crash Course
- Angular Crash Course
- Build Real-time eCommerce App
 - Create Angular front-end
 - Develop Spring Boot back-end



Angular

front-end

Full-Stack

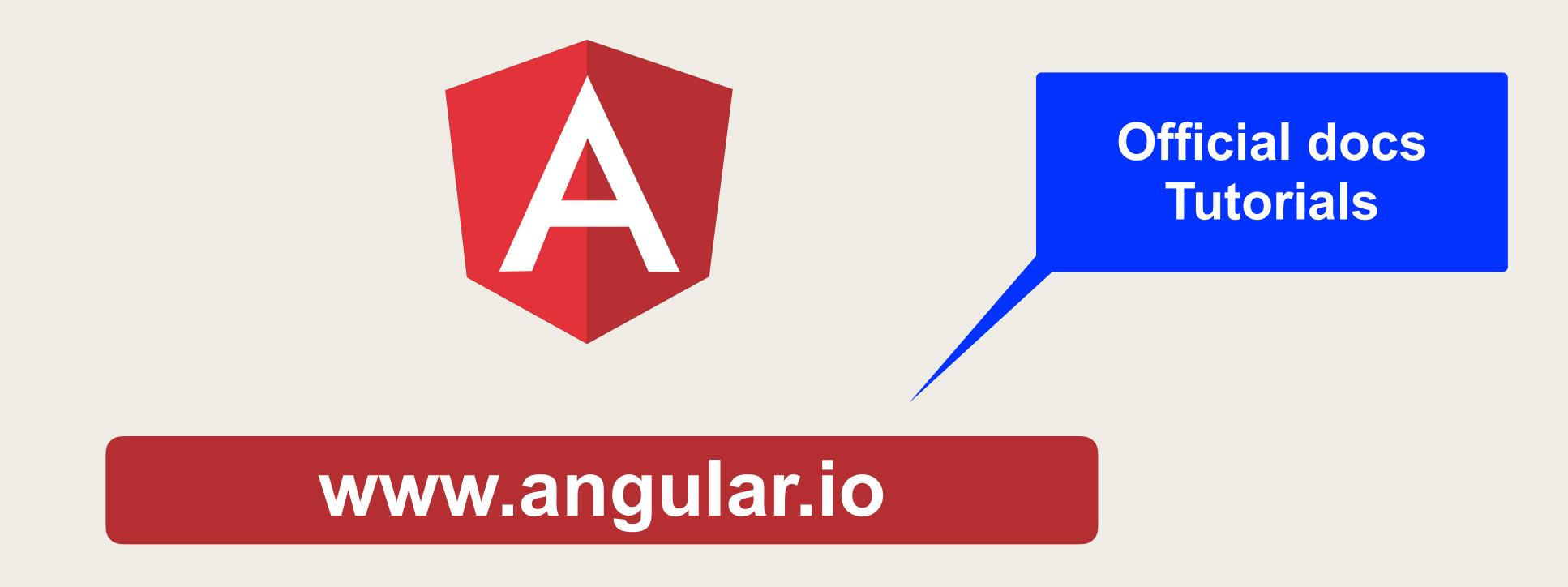
Spring Boot back-end

Angular Overview



What is Angular?

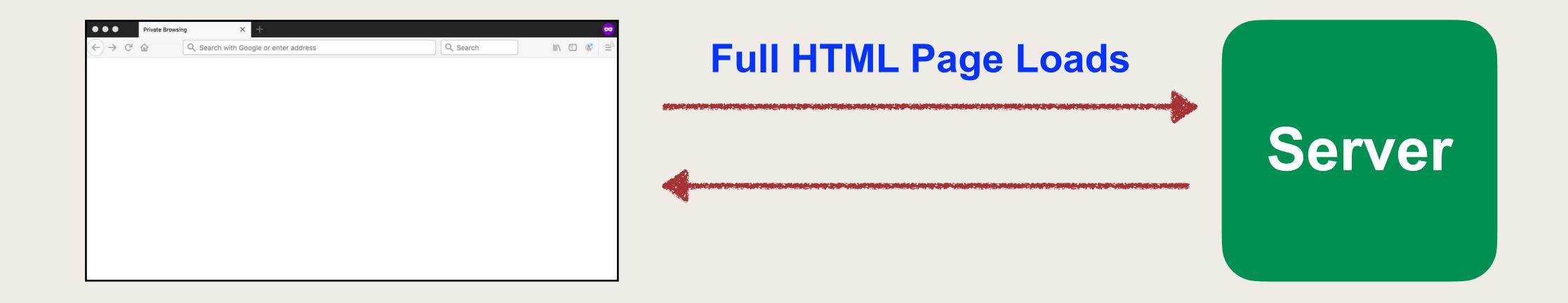
· Angular is a framework for building modern single-page applications



How is Single-Page application different than Traditional application?

Traditional Application

• Each user action results in a full HTML page load



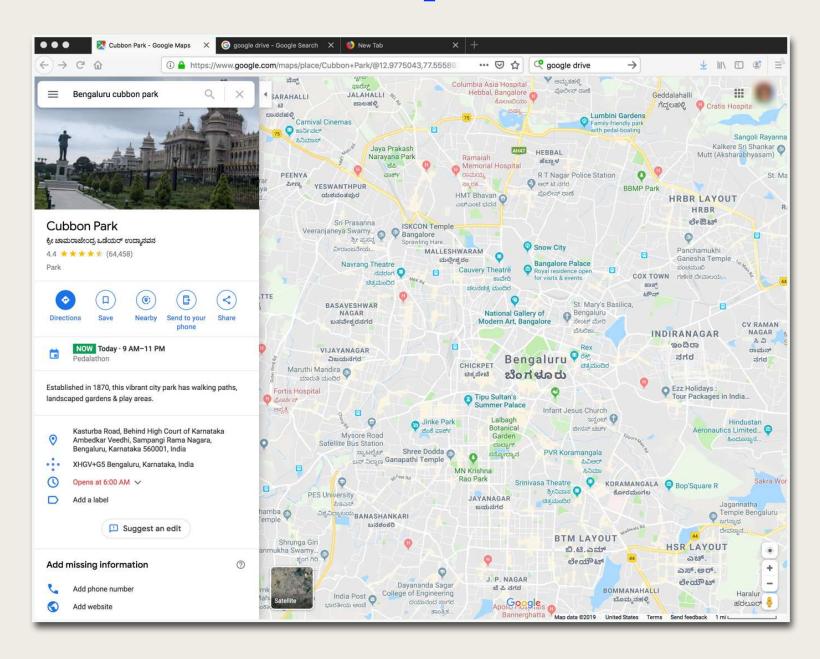
Single-Page Application

- A web application that is composed of a single page
- · Based on user actions, the application page is updated
 - · Normally performs a partial update ... instead of full page load

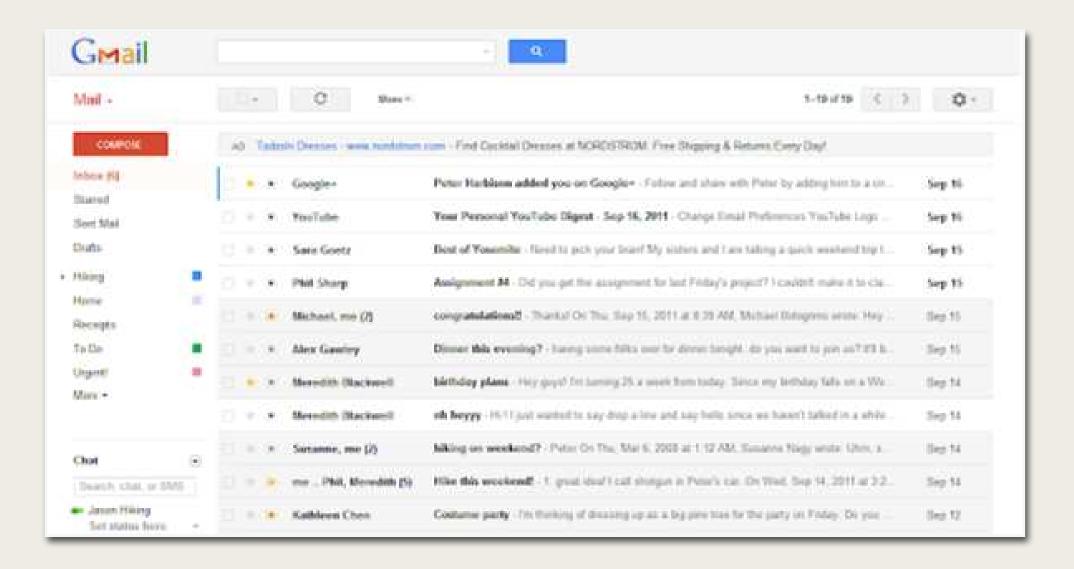


Examples of Single-Page Applications

Maps

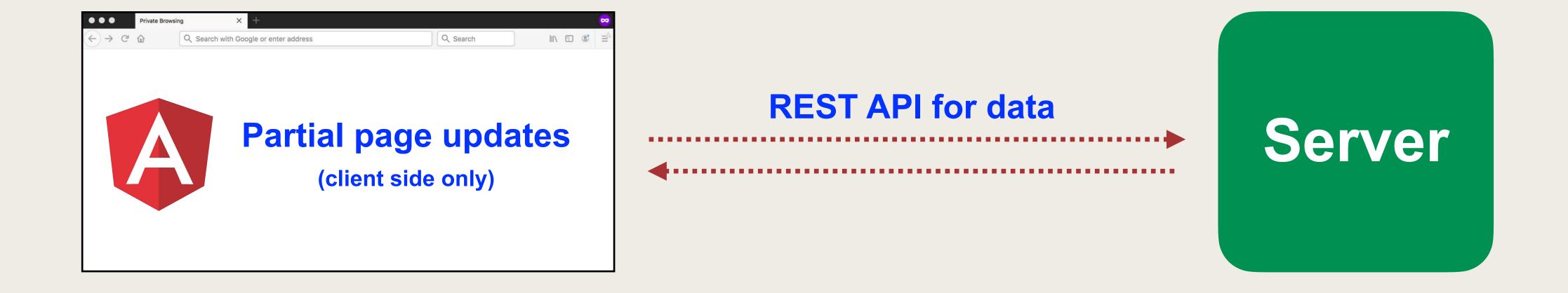


Email



Angular Solution

Angular is a framework for building modern single-page applications



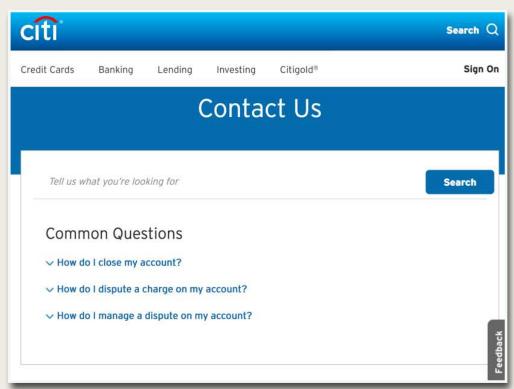
Who's Using Angular?

Companies around the world are using Angular

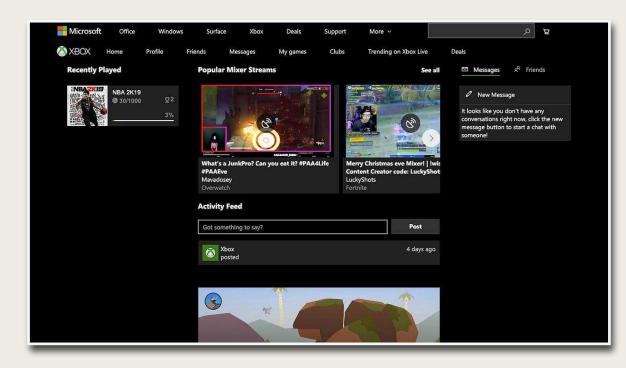
Australian Government Immigration



Citi Bank Customer Service



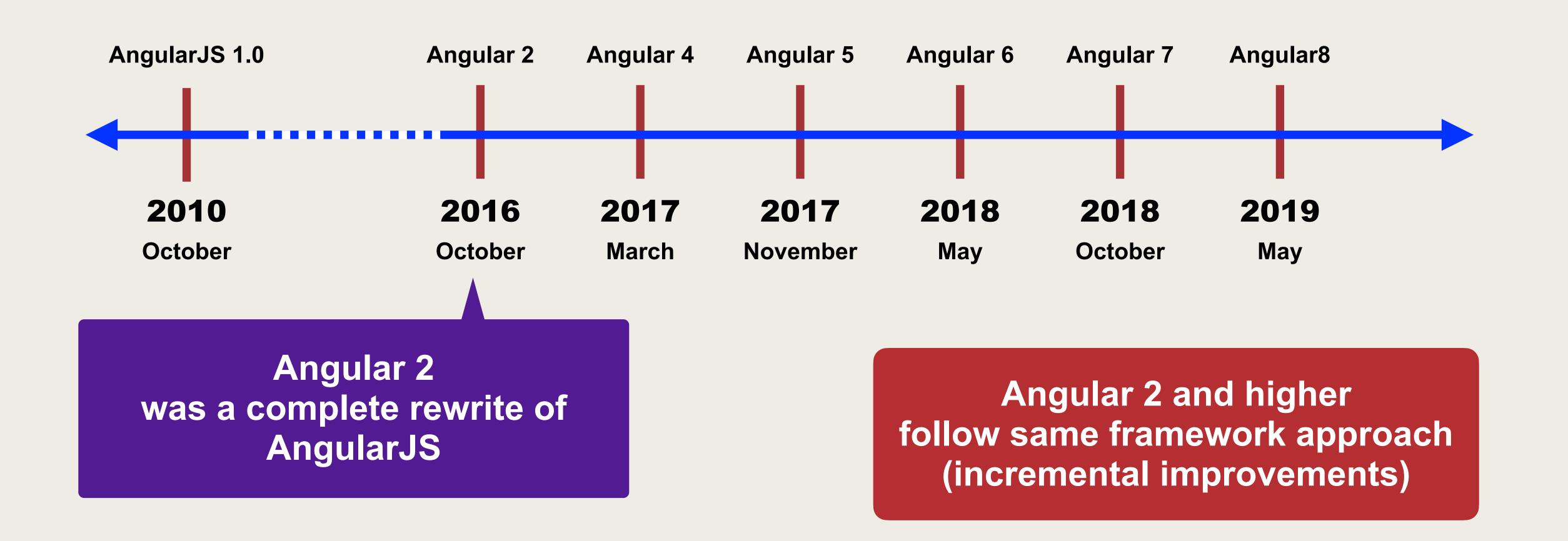
Microsoft Xbox



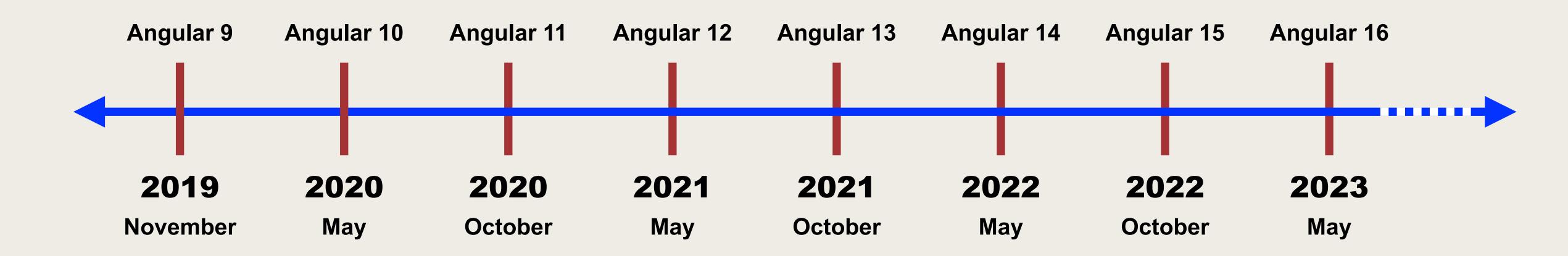


www.madewithangular.com

Angular History



Angular History + Future



Major release every 6 months

Dates are general guidance from Angular team ... may shift accordingly

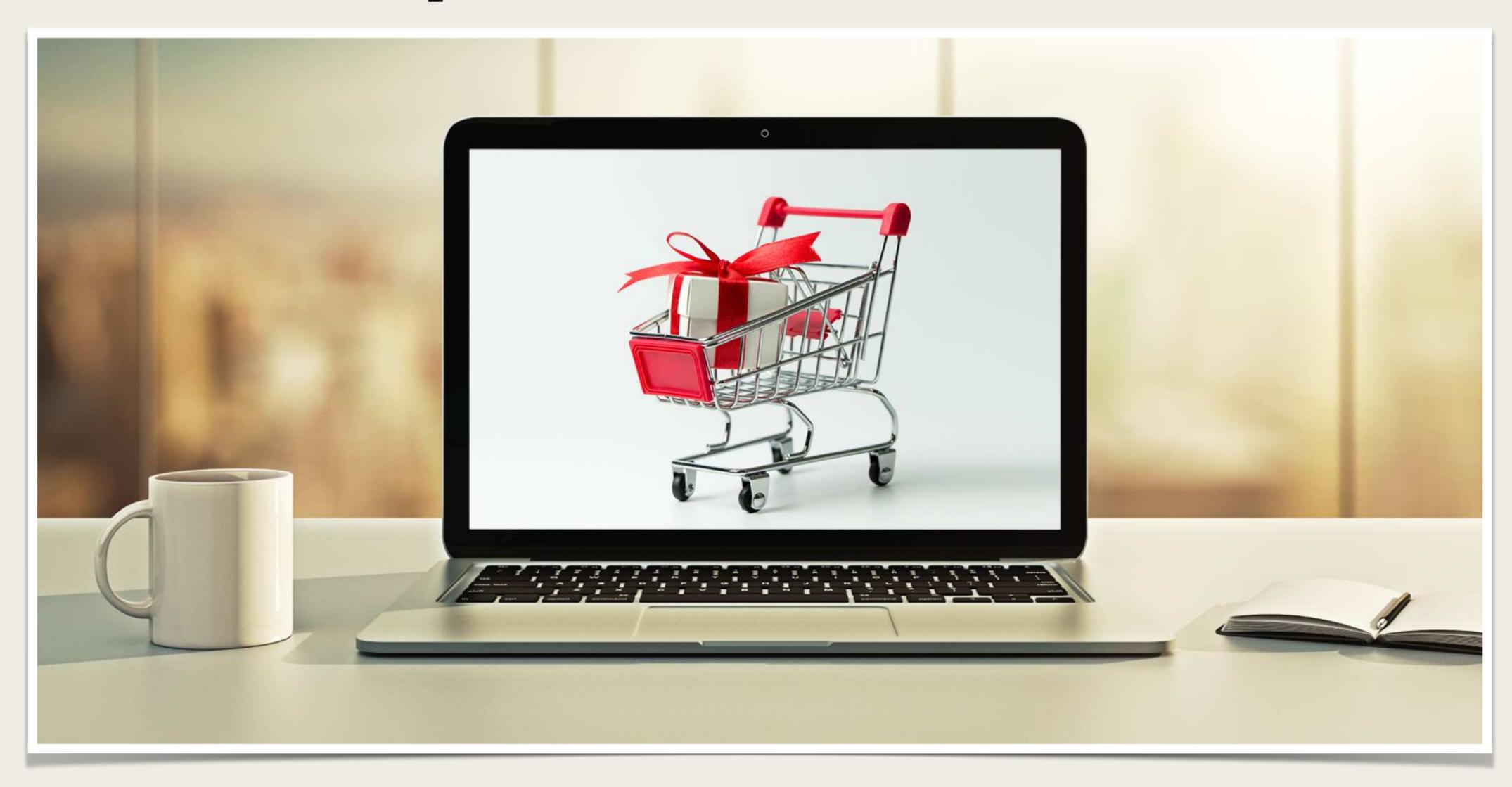
What about Do-it-Yourself?

• FAQ: Couldn't I just do it myself with JavaScript, jQuery, AJAX etc?

- May work for small basic hobby apps
- · For common features such as data binding, you may reinvent the wheel
- · Hard to manage and maintain for enterprise real-time applications

· Main reason we have frameworks such Angular, React.js, Vue.js, ...

Set up Dev Environment



Angular Development Tools

You can use any text editor or IDE

More on TypeScript in upcoming videos

- Most Angular developers use the TypeScript language
 - Superset of JavaScript
 - Strongly-typed language with compile time checking and IDE support

Command-line tools to compile code and create Angular apps

Visual Studio Code

- Free IDE that supports multiple programming languages
- Has built-in support for TypeScript
- IDE features such as IntelliSense, Debugging, etc ...

```
Visual Studio Code

Visual
```

http://code.visualstudio.com

Command-Line Tools

Tool	Purpose
node	For running JavaScript code from command-line
npm	Node Package Manager - Download new node packages and features. Similar to Maven
tsc	TypeScript Compiler

Installation Instructions

- Install tools: Visual Studio Code, node, npm, tsc
- Step-by-step instructions for each operating system

MS Windows Mac Linux