

Angular Fundamentals

day 2 - Short recap



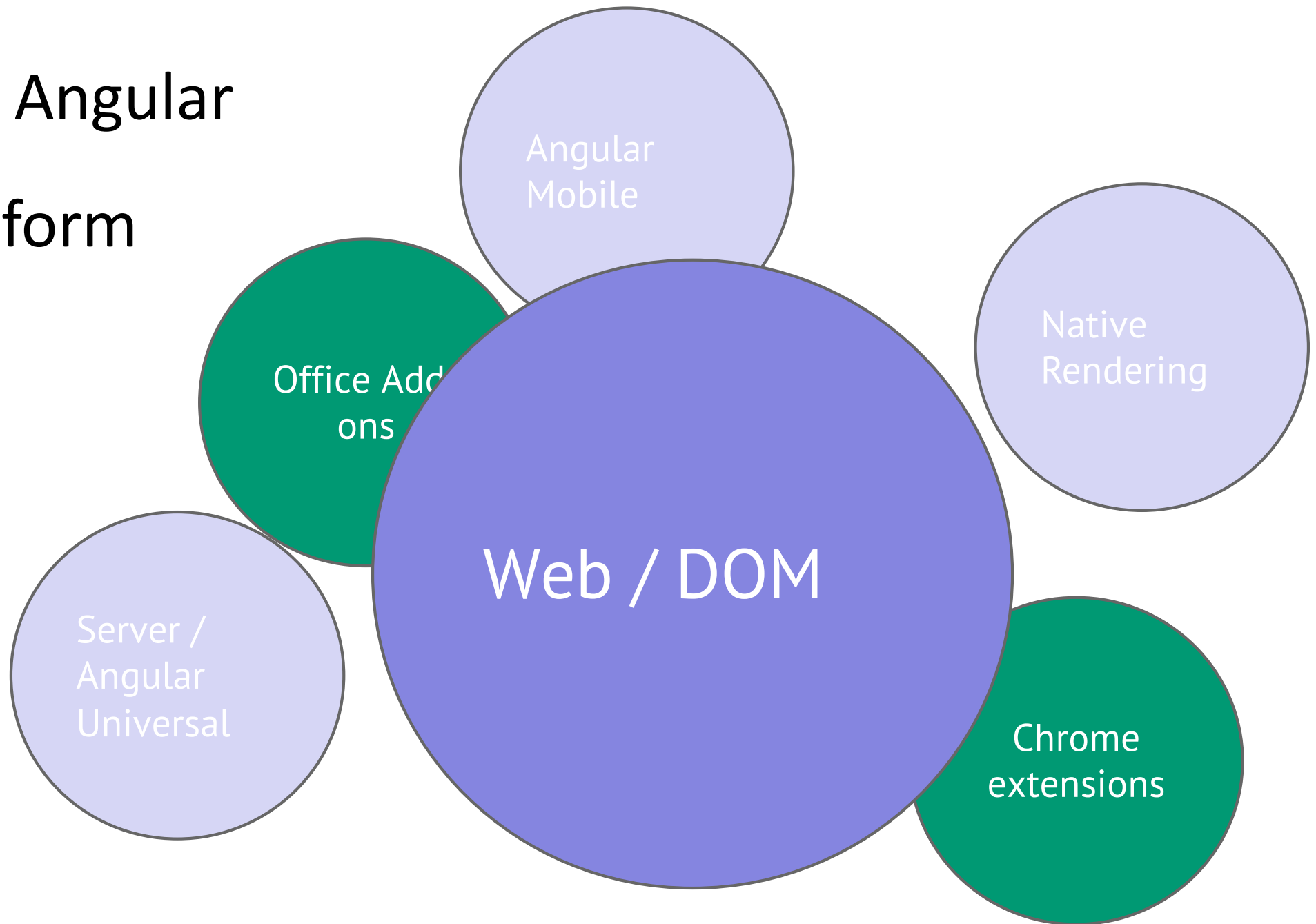
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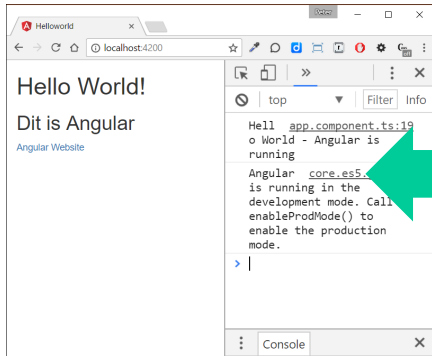
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Angular Architecture – Framework to Platform

	Scaffolding	Code completion & Refactoring	Debugging
Tooling	Angular CLI	Language Services	Augury
Libraries	Material 2	Mobile	Universal
	Compile	Change Detection	Renderer
Core	Components & Dependency Injection	Decorators	Zones

The Angular Platform





main.ts / bootstrapper

ngModule / root module

AppComponent

Other components

Other components

Other components

Services

3rd party libs

Other
modules





A Venn diagram consisting of three concentric circles. The outermost circle is dark teal and contains the text 'TypeScript'. Inside it is a medium teal circle containing the text 'ES6'. Inside the 'ES6' circle is a light teal circle containing the text 'ES5'. This visualizes that ES5 is a subset of ES6, and ES6 is a subset of TypeScript.

TypeScript

ES6

ES5

 freeCodeCamp

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2

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Per Harald Borgen

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Co-founder of Scrimba, the next-generation platform for teaching and learning code.
<https://scrimba.com>.
Jul 16 · 8 min read

Want to learn TypeScript? Here's our free 22-part course.



Project index.js

FILES

- index.html
- index.js

DEPENDENCIES

What & Why?

- Superset of JavaScript
- Built by Microsoft
- Compiles down to regular JavaScript
- Tends to be less error prone.

RELOAD BROWSER SHOW BROWSER

<https://medium.freecodecamp.org/want-to-learn-typescript-heres-our-free-22-part-course-21cd9bbb5ef5>

Boilerplate code - steps

1. Set up environment, boilerplate & libraries

– `npm install`

2. Write Angular Root Component & Module for app

3. Bootstrap (`main.ts`)

4. Write HTML-pagina (`index.html`)

5. Run application

– `npm start`

Components

- @Component decorator
- View
- Controller / Class

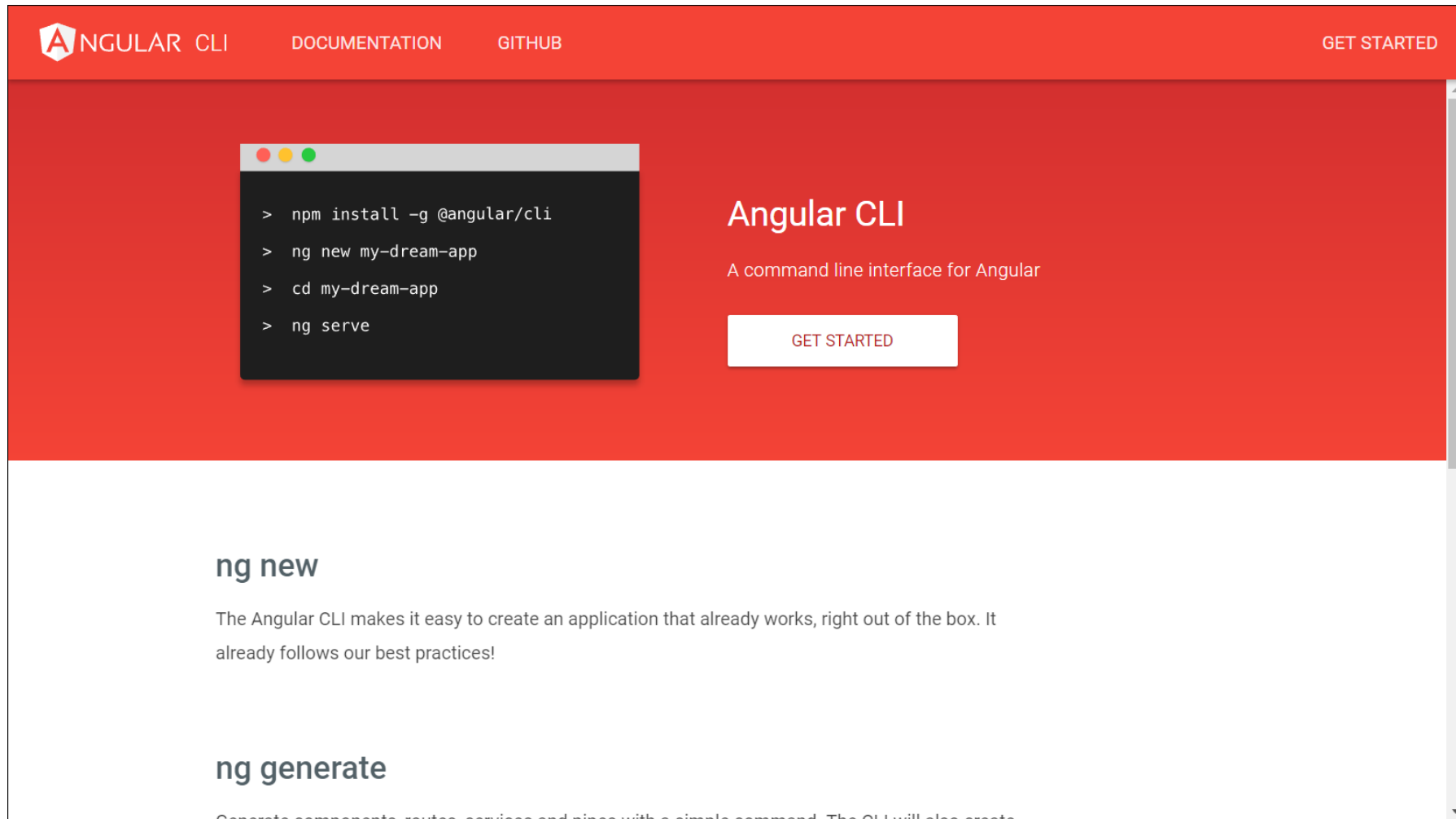
```
import { Component, OnInit } from '@angular/core';

@Component({
  selector: 'app-customer',
  templateUrl: './customer.component.html',
  styleUrls: ['./customer.component.css']
})
export class CustomerComponent implements OnInit {

  constructor() {}

  ngOnInit() {}
}
```


Angular CLI



Ng serve

- Does multiple things – you *could* do this by hand:
 1. TypeScript compilation
 2. (SASS compilation)
 3. Fire up webserver on <http://localhost:4200>
 4. Fire up Live Reload
 5. Analyzing and bundling of application by firing up WebPack
 6. Watch for changes and recompile, rebundle, etc.

Data binding

- New syntax in HTML-views/partials.
 1. Simple data binding `{{ ... }}`
 2. Event binding `(...) = "..."`
 3. One-way data binding `[...] = "..."`
 4. Two-way data binding `[(ngModel)] = "..."`

Today

- Data binding (continued)
 - Event- and Attribute binding
 - Two-way Data Binding
- Afternoon - Services
 - Static Services
 - RxJS / Observables
 - Live API's

Tomorrow

- Tree of components
 - Component Communication
 - Building applications with multiple components
 - Data flow between components `@Input()` and `@Output()`
- Routing
 - Basic Routing
 - Routing Parameters
- Forms
 - Template Forms
 - Reactive Forms