ANGULAR CRASH COURSE

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connect.engage.succeed.

WHAT VERSION?

- AngularJS = version 1.x
- Angular = version 2.x, 4.x, 5.x, 6.x, …
- Angular has a release cadence of 6 months

WHAT IS ANGULAR?

Angular is a platform that makes it easy to build applications with the web.

Angular combines declarative templates, dependency injection, end to end tooling, and integrated best practices to solve development challenges.

Angular empowers developers to build applications that live on the web, mobile, or the desktop.

WHAT DO WE NEED FOR ANGULAR?

- NodeJS 8.x
- NPM 5.x
- Angular CLI
- An editor (VS Code)

NODEJS? NPM?

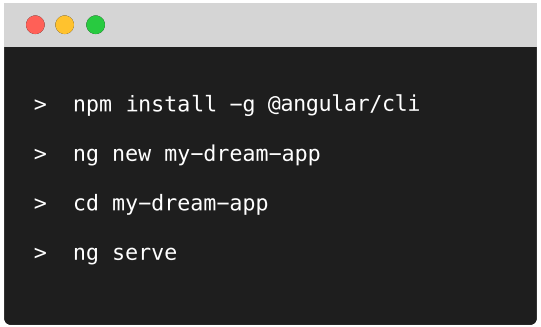
NodeJS is a cross-platform JavaScript runtime used for running server-side JS-code.

Node Package Manager (NPM) is the default package manager that comes bundled with NodeJS. It stores dependencies in the file package.json.

ANGULAR CLI

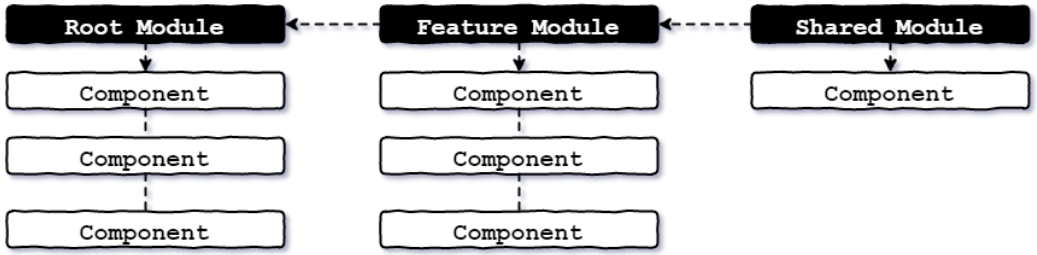
A command line interface for Angular used for generating code and building/testing your projects.

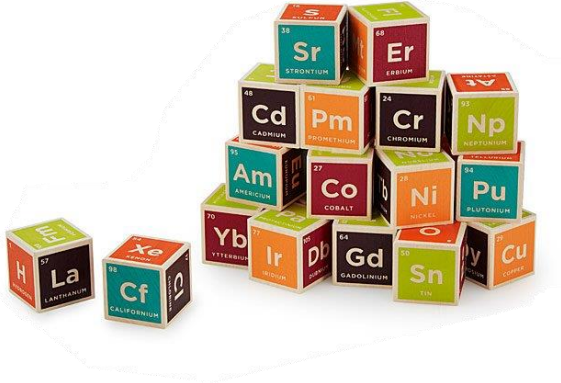
```
ng new <my-project> // Generate new project

ng serve // Run app locally for dev

ng build // Build your app

ng test // Run tests
```



ARCHITECTURE - MODULES

- Modules are the building blocks for Angular apps
- Collect related code into functional sets
- App should have one root module for bootstrapping
- Provide a compilation context for components





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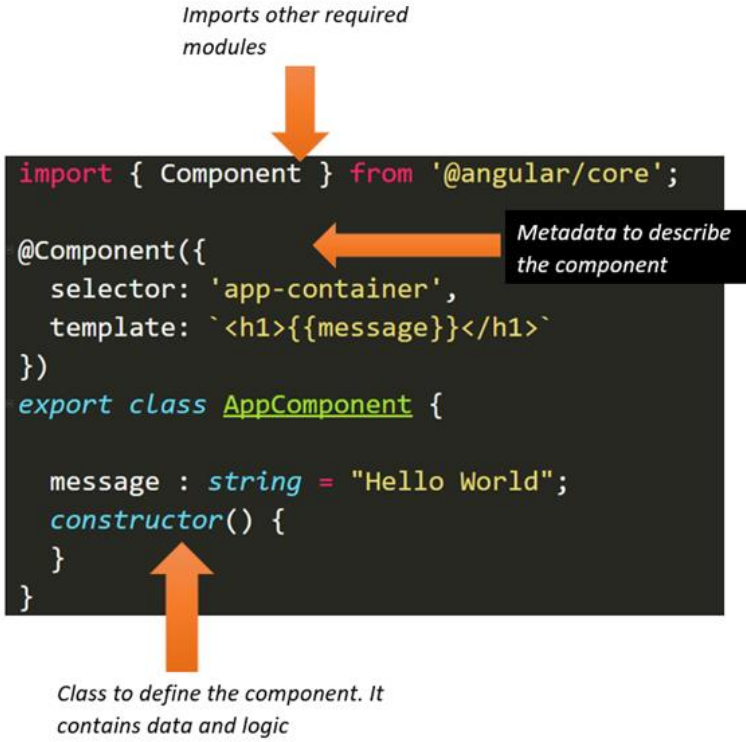
ARCHITECTURE - COMPONENTS

- Components define views
- Components use services which are injected using DI
- Uses TypeScript decorators to add metadata for Angular
- Metadata includes: selector, template (url), styles (url), etc.



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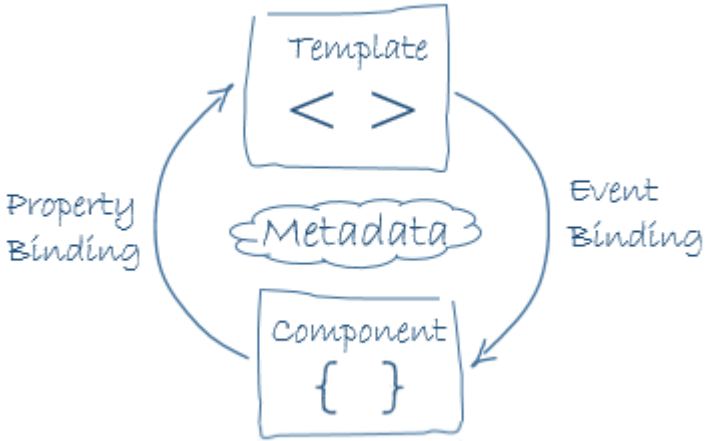
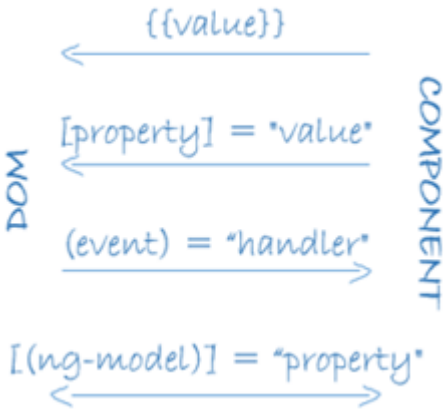
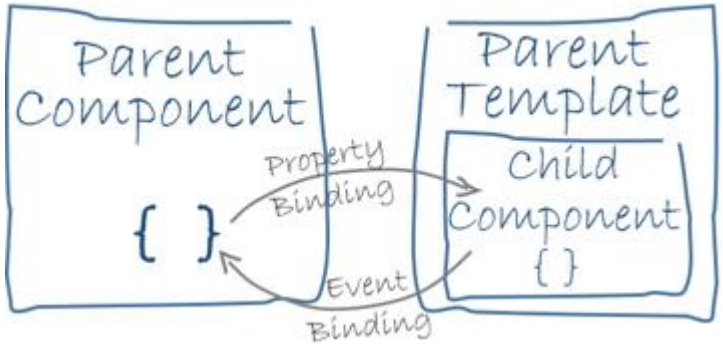

Template
< >
Property
Binding
Metadata
Event
Binding
Component
{ }


{{value}}
[property] = "value"
DOM
COMPONENT
(event) = "handler"
[(ng-model)] = "property"


Parent
Component
{ }
Property
Binding
Event
Binding
Parent
Template
Child
Component
{ }

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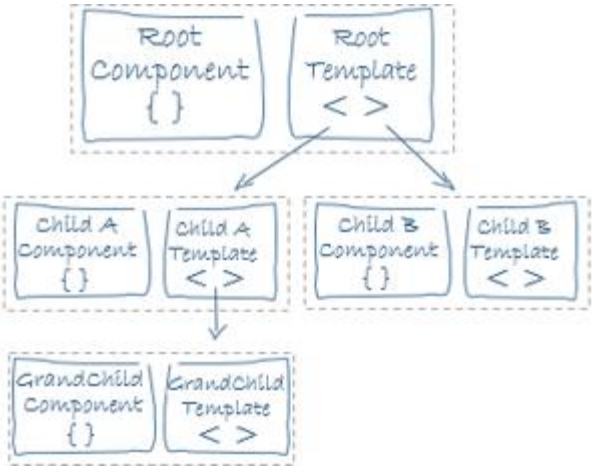
Root Component { }
Root Template < >
Child A Component { }
Child A Template < >
Child B Component { }
Child B Template < >
GrandChild Component { }
GrandChild Template < >

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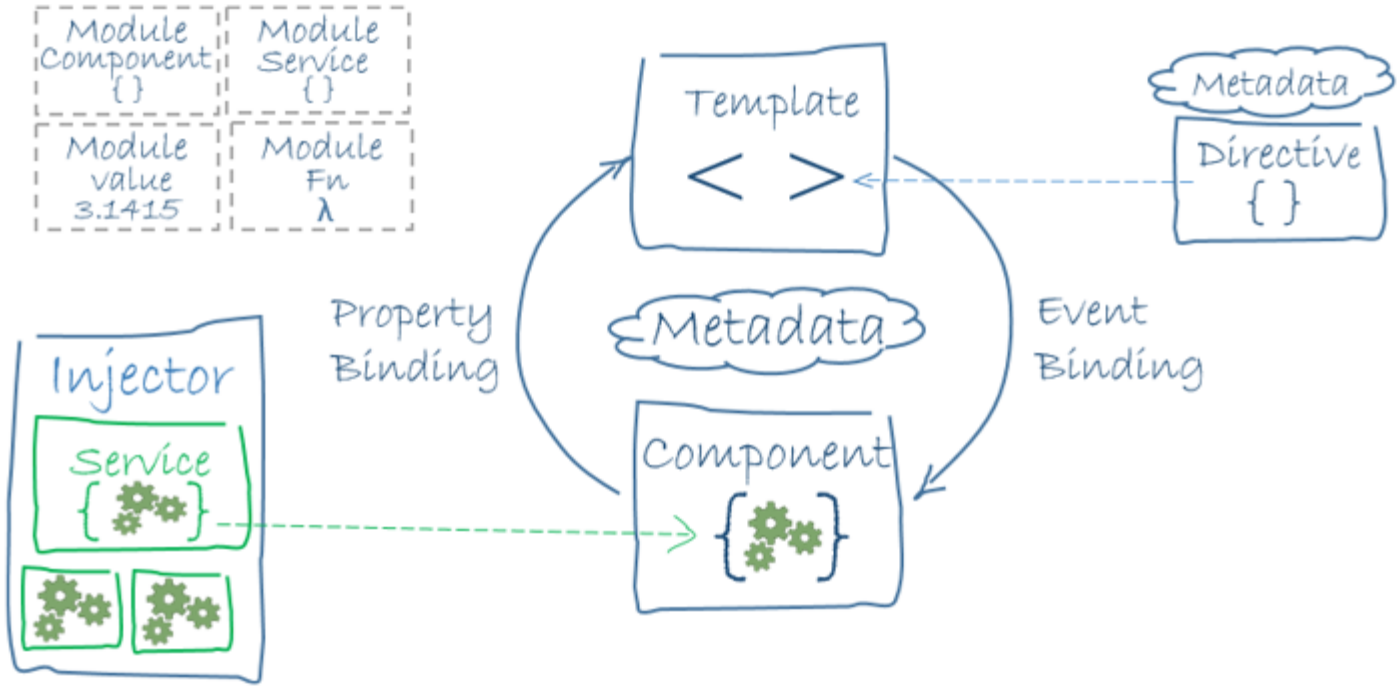
ARCHITECTURE - SERVICES

- Used by components
- Provide specific functionality not directly related to views
- Functionality to share across components

```
import { Injectable } from '@angular/core';

@Injectable()
export class MyService {

}
```


Module
Component
{ }
Module
Service
{ }
Module
value
3.1415
Module
Fn
λ
Template
< >
Metadata
Directive
{ }
Property
Binding
Metadata
Event
Binding
Injector
Service
Component

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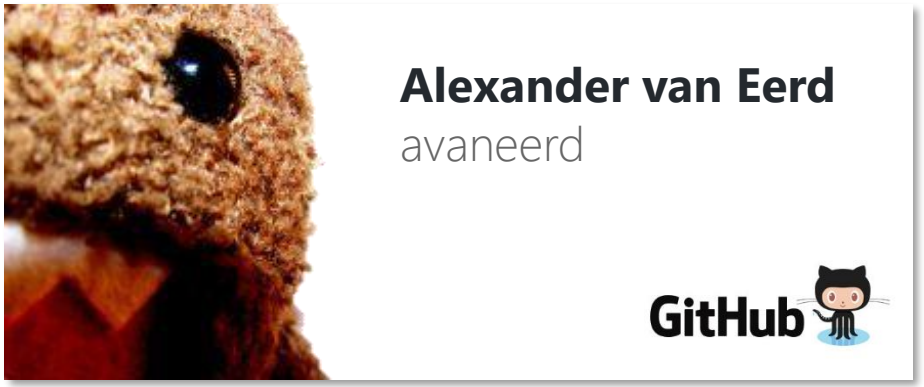
CODING TIME!

Home</a></li>
href="multi-col-menu.html">Home Events</a></li>
class="has-children"> <a href="#" class="current">Multiple Column Menu on Larger Viewports
<li><a href="tall-button-header.html">Header Options</a>
<li><a href="image-logo.html">Tall Button Header</a></li>
<li class="active"><a href="tall-logo.html">Image Logo</a></li>
</ul>
</li>
<li class="has-children"> <a href="#">Tall Logo Image</a>
<ul>
<li><a href="variable-width-slider.html">Carousels</a>
<li><a href="testimonial-slider.html">Variable Image Wi
<li><a href="featured-work-slider.html">Testimonial Slider</
<li><a href="equal-column-slider.html">Featured Work Sli
<li><a href="video-slider.html">Equal Column Slid
<li><a href="mini-bootstrap-carousel.html">Video Slider</a></li>

CODE AND PRESENTATION ON GITHUB!



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THAT’S IT, THANKS!

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