



Logols Learning

WEEKEND WEB DEVELOPMENT BOOT CAMP

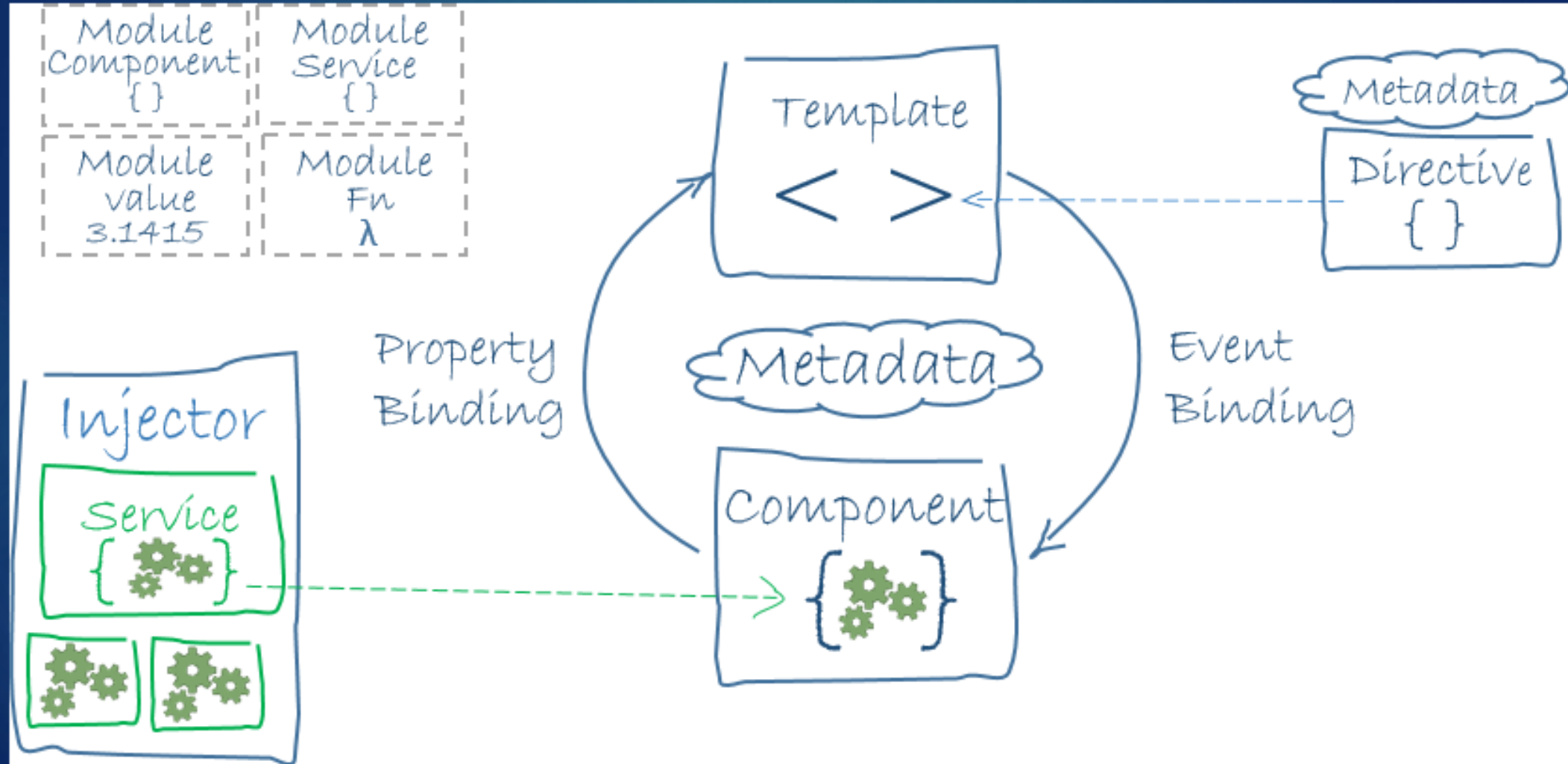
TRAINING: ANGULAR

Architecture of Angular?

- ▶ Modules
- ▶ Component
- ▶ Templates
- ▶ Directives
- ▶ Services



Architecture of Angular



Angular CLI

- ▶ Install Angular CLI
 - ▶ `npm install -g @angular/cli`
- ▶ Create a new Angular App
 - ▶ `ng new [app-name]`
- ▶ Change Directory
 - ▶ `cd [app-name]`
- ▶ Run the Application
 - ▶ `ng serve`

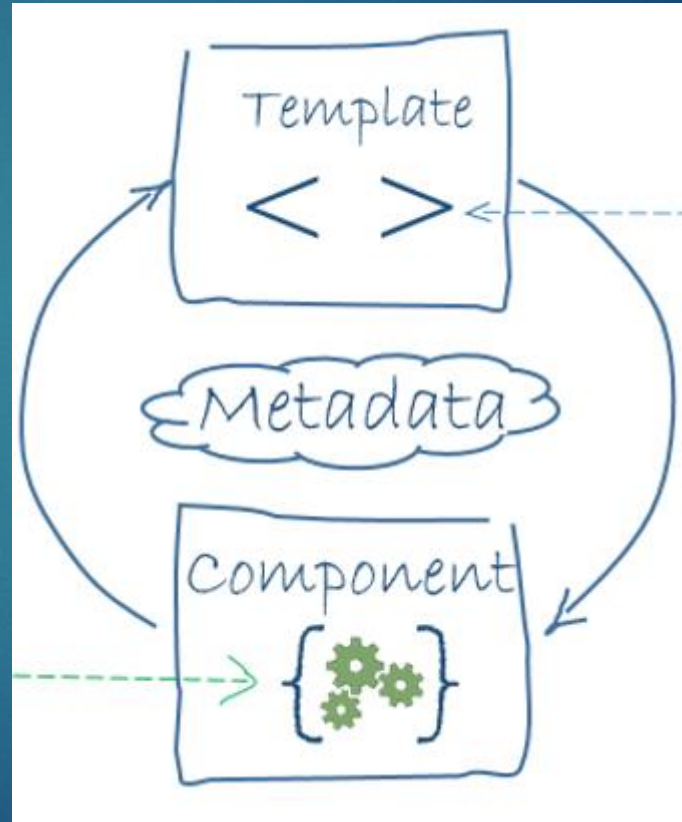
Modules

- ▶ Define the Components
- ▶ Root Module
- ▶ Feature Modules

Module Component { }	Module Service { }
Module value 3.1415	Module Fn λ

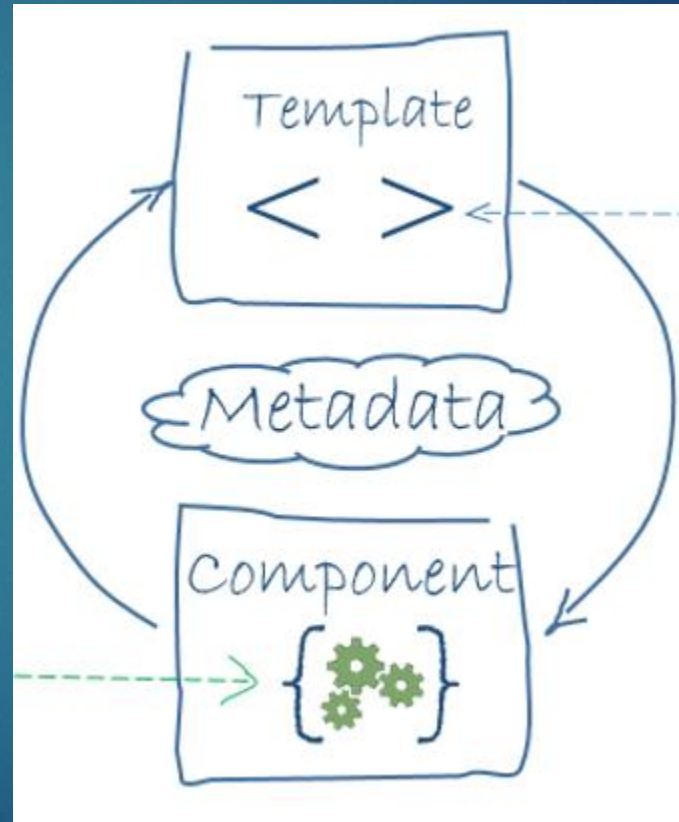
Components

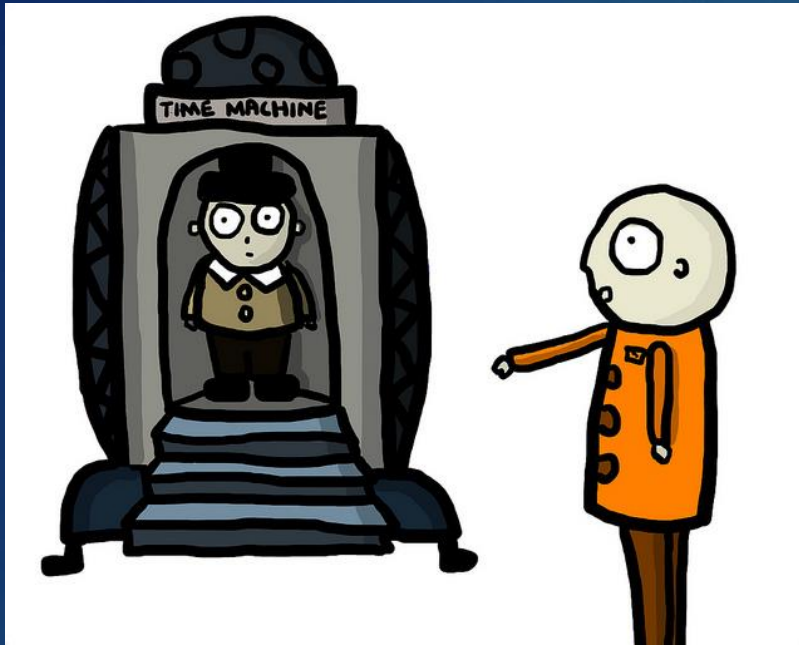
- ▶ Defines the Template
- ▶ Defines the Class
- ▶ Adds Metadata as needed



Templates

- ▶ Defines the html
- ▶ Can be inline of the component
- ▶ Or in a separate html file



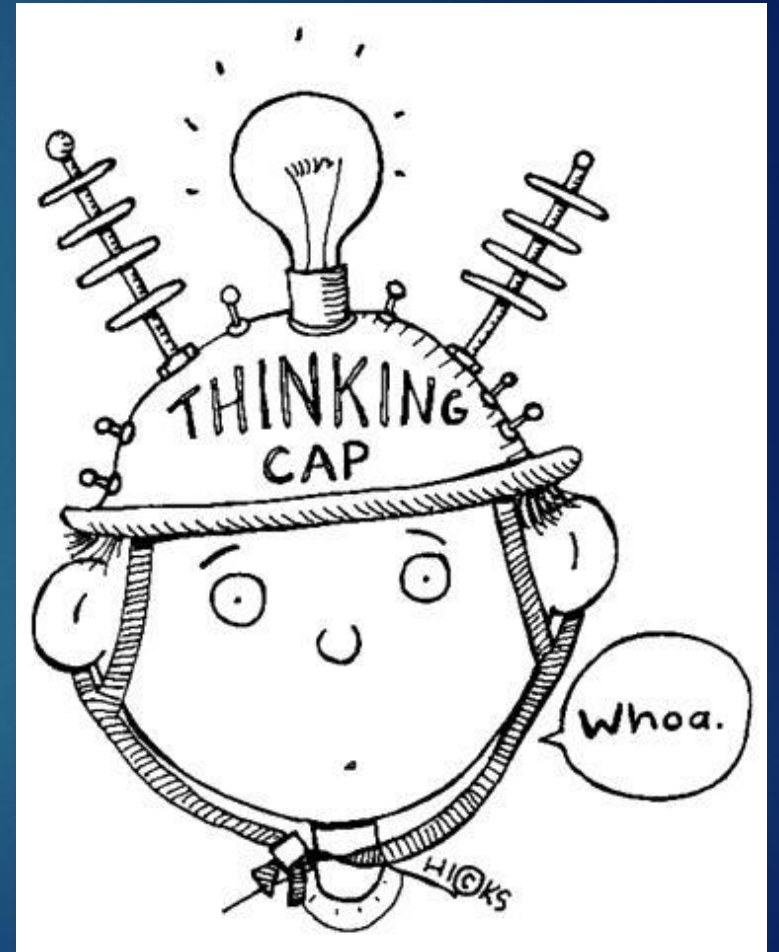


EXAMPLE

ANGULAR COMPONENTS AND TEMPLATES

ASSESSMENT

ANGULAR COMPONENTS AND TEMPLATES



Assignment

- ▶ Add the status report into Angular.
- ▶ Create a new component and html template for your zombie report.
 - ▶ Add the report html that you created before into the html template.



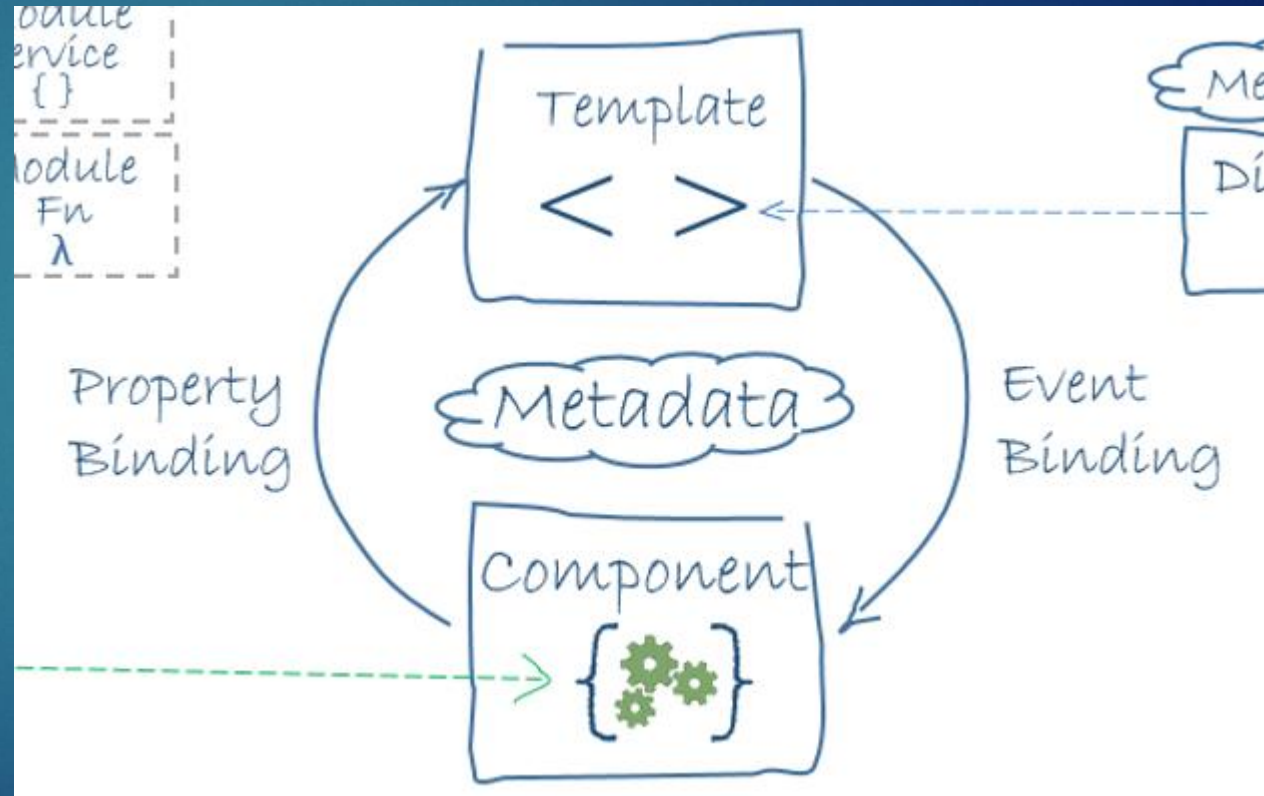
Directives

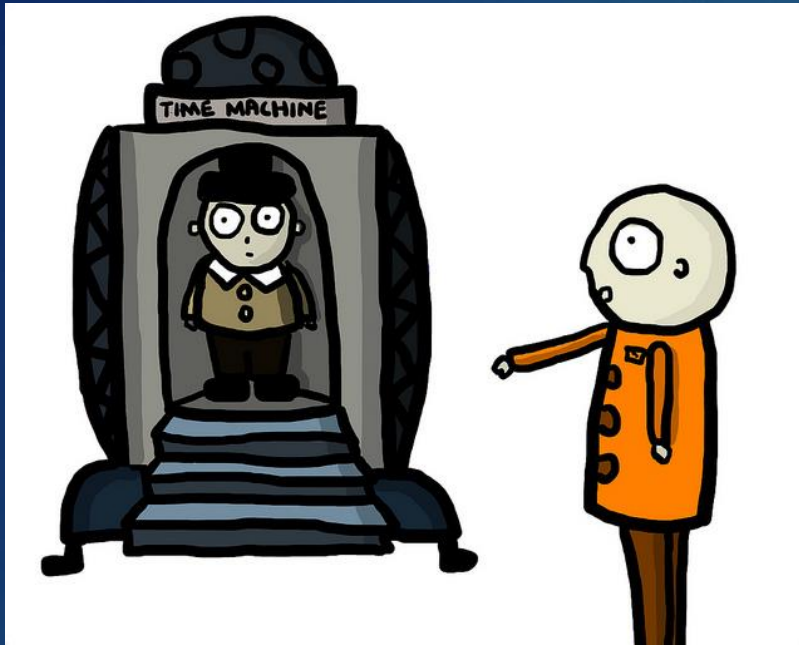
- ▶ Custom extended HTML element
- ▶ ngIf – conditional elements
- ▶ ngFor – elements created in a loop
- ▶ ngClass – conditionally add classes



Data Binding

- ▶ Interpolation
- ▶ One-way binding (unidirectional)
- ▶ Two-way binding
- ▶ Event binding



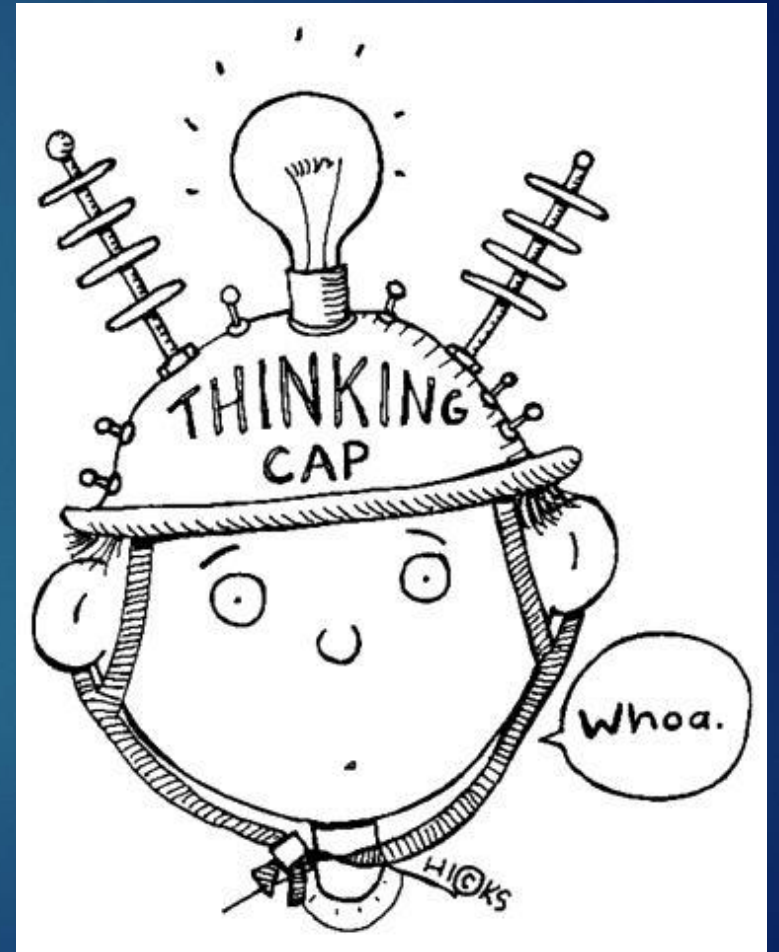


EXAMPLE

ANGULAR BINDING

ASSESSMENT

ANGULAR BINDING



Assignment

- ▶ Add a property into the component for the title.
- ▶ Use interpolation to show the value of the property for the title.
- ▶ Create a class that defines a status report line named PersonStatus with properties: firstName, lastName, statusId, statusDescription.
- ▶ Create a property with an array of PersonStatus objects.
- ▶ Use the ng-for directive to display array data in the table.

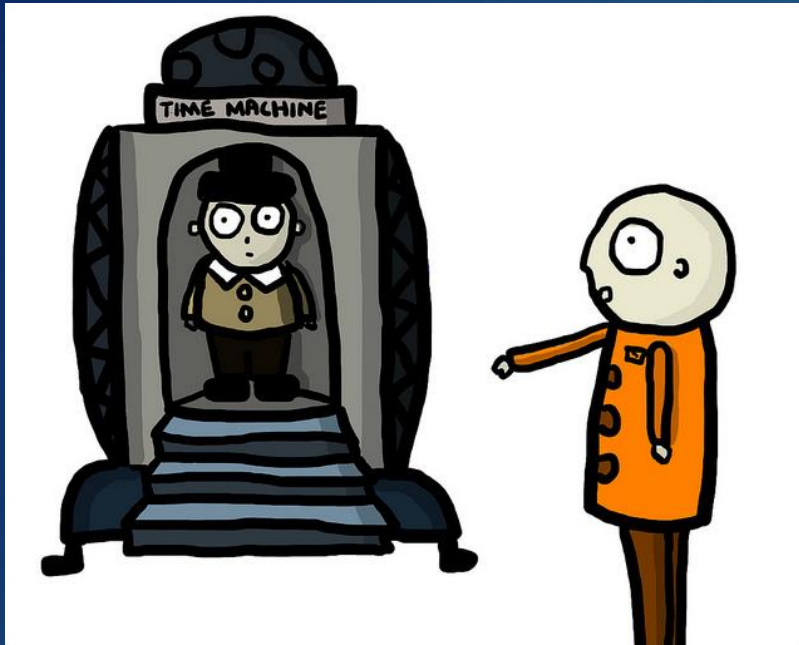


Angular Binding Exercises

- ▶ Extend the Previous Exercise
 - ▶ Add a property into the component.
 - ▶ Use interpolation to show the value of the component.
 - ▶ Create a property with an array value.
 - ▶ Use the ng-for directive to display array data.
 - ▶ Bind an event. Have the event change the property that is shown with interpolation.
 - ▶ Create a new class and add it as a property.
 - ▶ Bind the class using two way binding.

Routing/Navigation

- ▶ Define routes in the module file
- ▶ Use the following syntax in the template to link to a route:
 - ▶ `<a [routerLink] = "[route path]">Description`
- ▶ Use router-outlet element to specify location of the route in the template
- ▶ Use `*` to route all undefined paths

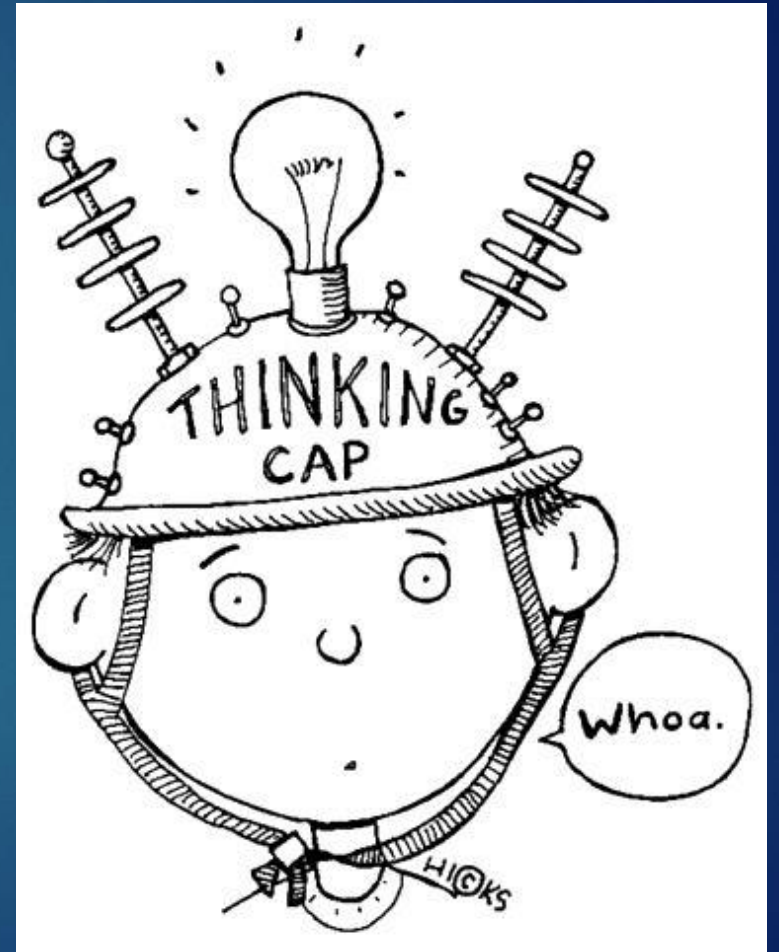


EXAMPLE

ANGULAR ROUTING

ASSESSMENT

ANGULAR ROUTING



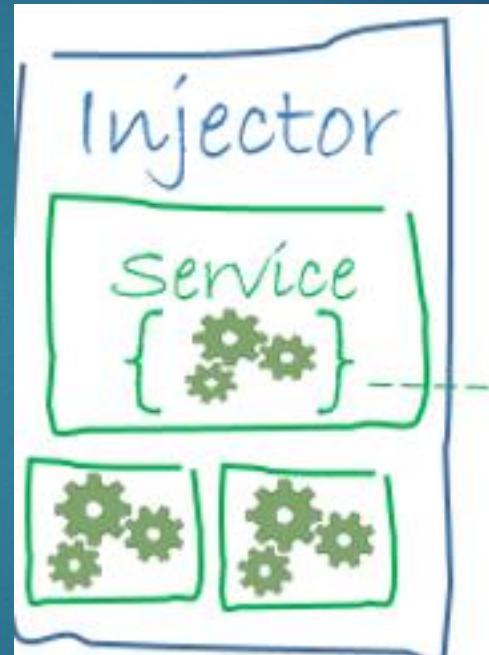
Assignment

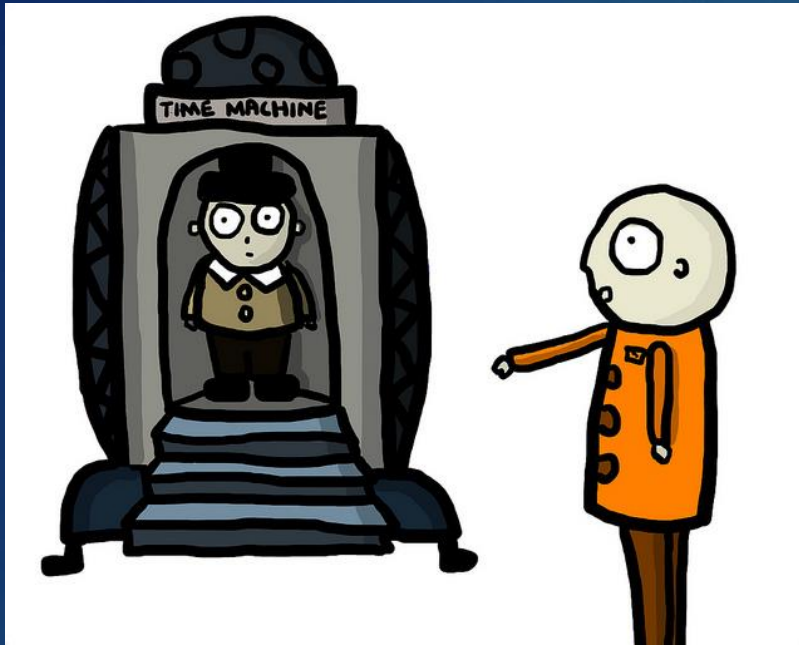
- ▶ Create a new component and html template.
- ▶ Add html for the form into it that you created previously.
- ▶ Setup up routing and a link so that the add link goes to this new component.



Service

- ▶ Separate Class
- ▶ Used to interact with the data
- ▶ Read and Persist
- ▶ Called from the component





EXAMPLE

ANGULAR SERVICE

Assignment

- ▶ Create a service that calls into your previously created web api.
- ▶ Return data and loop through it using the ng-for directive for the table instead of using the hard coded array.



QUICK REVIEW

ANGULAR



Not really a sign you'd want to see whilst driving through an eerily quiet neighbourhood...

Additional Resources

- ▶ Cheat Sheet

- ▶ <https://angular.io/guide/cheatsheet>

- ▶ Angular Tutorial

- ▶ <https://angular.io/tutorial>

- ▶ Udemy

- ▶ <https://www.udemy.com/learn-angular-from-scratch/>

- ▶ JSFiddle Template

- ▶ <https://jsfiddle.net/yurzui/1hk7knwq/>