Angular Fundamentals Markup and Controllers

Joe Eames www.pluralsight.com



Agenda

Controllers & Scope

Markup & Binding

Filters

Validation

Modifying Angular Seed

Testing

Bootstrap

Web Server

Can modules depend on other modules?

Yes

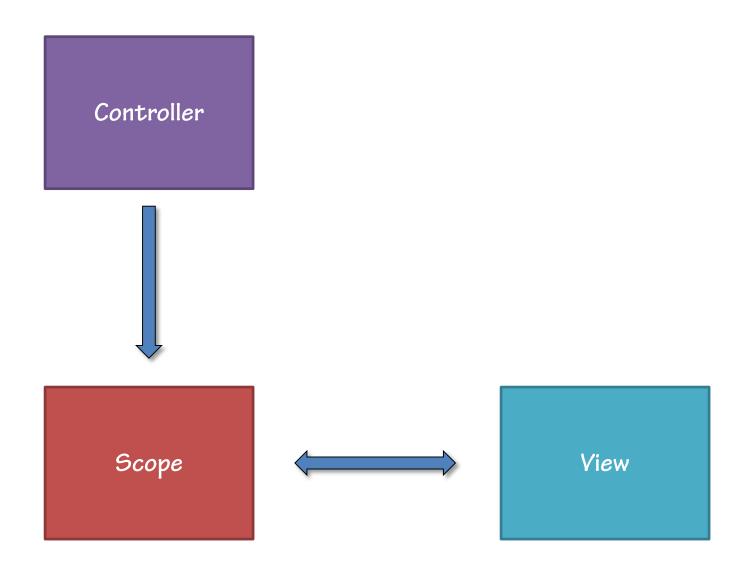
Should a small application use multiple modules?

No

Does Pluralsight have a course on Twitter Bootstrap that you should watch?

Yes

Controllers & Scope



What is the primary responsibility of the controller?

Create the scope

Is the scope the model?

No

Can the view bind to functions on the scope?

Yes

Can you use basic JavaScript objects as your model in Angular?

Yes

What is the markup indicator for binding data to a view?

Double Curly Brace

Which directive do you use to bind an image's src? ngSrc

Built-In Directives

New HTML Functionality

In how many ways can an angular directive be written?

Four

Can all directives be written all four ways?

No

Can Angular dig down into your model?

Yes

Event Directives

- ngClick
- ngDblClick
- ngMousedown
- ngMouseenter
- ngMouseleave
- ngMousemove
- ngMouseover
- ngMouseup
- ngChange

ngChange

```
<input type="checkbox" ng-change="handleChange()"
ng-model="property" />
```

True or False: The ngChange directive requires the ngModel directive to also be present.

True

True or False: Angular includes a ngRightMouseClick directive

False

Other Directives

- ngApp
- ngBind
- ngBindTemplate
- ngBindHtml
- ngBindHtmlUnsafe
- ngHide
- ngShow
- ngCloak
- ngStyle
- ngClass
- ngClassEven
- ngClassOdd

- ngDisabled
- ngChecked
- ngMultiple
- ngReadonly
- ngSelected
- ngForm
- ngSubmit
- ngHref
- ngSrc
- ngNonBindable

What is the purpose of the ngCloak directive?

To avoid a flash of unbound html

True or False: ngBind supports multiple bindings?

False. The ngBindTemplate directive does.

The ngClass directive has two companion directives. What are they?

ngClassEven & ngClassOdd

What does ngForm allow you to do?

Nest forms

Which directive delays fetching an image until after binding has occurred?

ngSrc

Why do we need the ngDisabled directive?

Because of ambiguities in the HTML spec

ngPluralize

Ease Pluralization of Text

```
<ng-pluralize count="personCount"
  when="{'0': 'Nobody has voted.',
  'one': '1 person has voted.',
  'other': '{} people has voted.'}">
</ng-pluralize>
```

ngPluralize - offset

```
<ng-pluralize count="personCount" offset=2</pre>
when="{'0': 'Nobody has voted.',
   '1': '{{person1}} has voted.',
   '2': '{{person1}} and {{person2}} has voted.',
   'one': '{{person1}}, {{person2}} and one other person has
        voted.',
   'other': '{{person1}}, {{person2}} and {} other people has
         voted.'}">
</ng-pluralize>
```

ngSwitch

IE Restrictions

Polyfill JSON.stringify

No NG tags

IE Custom Tag Restrictions

```
<ng-pluralize count="..." when"...">
</ng-pluralize>
```

```
<div ng-pluralize count="..." when"...">
</div>
```

What do you need to do to support older versions of IE with Angular?

Polyfill JSON.stringify and avoid custom tag name directives

What are the three ways directives can be written?

Tag, attribute, class name

Expressions

Code Snippets

```
{{ name }}

{{ amount * 100 }}
```

True or False: Expressions support all JavaScript syntax.

False

True or False: You can create an array in an expression.

True

Filters

Modifying Output

Formatting

Sorting Dataset

Filtering Dataset

Using Filters

```
{{ expression | filter }}
```

Built-in Filters

- uppercase
- lowercase
- number
- currency
- date
- json
- orderBy
- limitTo
- filter

How do you indicate a parameter to a filter?

Colon

Can you limit a filter to only search in a specific field?

Yes

Can you specify custom date formats with the date filter?

Yes

Writing Custom Filters

```
module.filter('name', function() {
    return function(input /*, filter parameters */) {
        // modify input
        return modifiedOutput;
    }
});
```

Two Way Binding

ngModel

ngModel

input

select

textarea

Using ngModel

```
<input type="text" ng-model="object.property" />
```

```
<input type="text" ng-model="property" />
```

```
<input type="text" ng-model="object.container.property" />
```

True or false: two way binding will update on every key stroke?

True

Which HTML elements work with two way binding?

Input, Select, Textarea

What will happen if you reference a property that doesn't exist in a ngModel directive?

The property will be created automatically

Validation

Required

ngPattern

Form Properties

CSS Classes

In form validation, what is the opposite property to dirty?

Pristine

Which directive lets you create a regex for validation?

ngPattern

What property does a form require in order to check validity?

a name

Summary

Controllers & Scope

Markup & Binding

Filters

Validation

Homework

- More comprehensive validation
- Implement the ng-Cloak directive
- Use a filter to display an icon for the session level instead