

Angular Directives

with Katryn & Nick

What's a directive?

At a high level, directives are markers on a DOM element (such as an attribute, element name, comment or CSS class) that tell AngularJS's HTML compiler (`$compile`) to **attach a specified behavior** to that DOM element or even transform the DOM element and its children.

Document Object Model (DOM) is a programming interface for HTML and XML documents.

It provides a structured representation of the document and it defines a way that the structure can be accessed from programs so that they can change the document structure, style and content. The DOM provides a representation of the document as a structured group of nodes and objects that have properties and methods. Essentially, it connects web pages to scripts or programming languages.

Directives are built in to Angular!

Angular comes with a set of these directives built-in, like

`ngBind`

`ngModel`

`ngView`

The full list is here: <https://docs.angularjs.org/api/ng/directive>

Or you can create your own!



We could create a partial...

```
Name: {{customer.name}}  
<br />  
Street: {{customer.street}}
```

```
<div ng-include="'myChildView.html'"></div>
```

OR create our own directive

```
angular.module('directivesModule').directive('mySharedScope', function () {  
  return {  
    template: 'Name: {{customer.name}}<br /> Street: {{customer.street}}'  
  };  
});
```

```
<div my-shared-scope></div>
```

In this simplified view the benefit is not as obvious, but in more complicated blocks of code it can make your app much more readable and save time in production.

Process

Define custom directive w/in app.js

```

    title,          anon function returning*
app.directive ('productTitle', function(){

// A directive definition object

return {

// directive definition is defined via options
// which we'll override here

    Restrict**: "<string that designates name of new element>"
    templateUrl **: "<string that designates url of element we
want HTML to load into
    page>"
    };
});
```

***DIRECTIVE DEFINITION OBJECT =**

configuration defining how your Directive
is going to work

****OPTIONS**

- (format)
- (loading templates)

Dedication

June 5 -- August 15, 2014

Near, far, wherever you are
I believe that the heart does go on
Once more you open the door
And you're here in my heart
And my heart will go on and on

