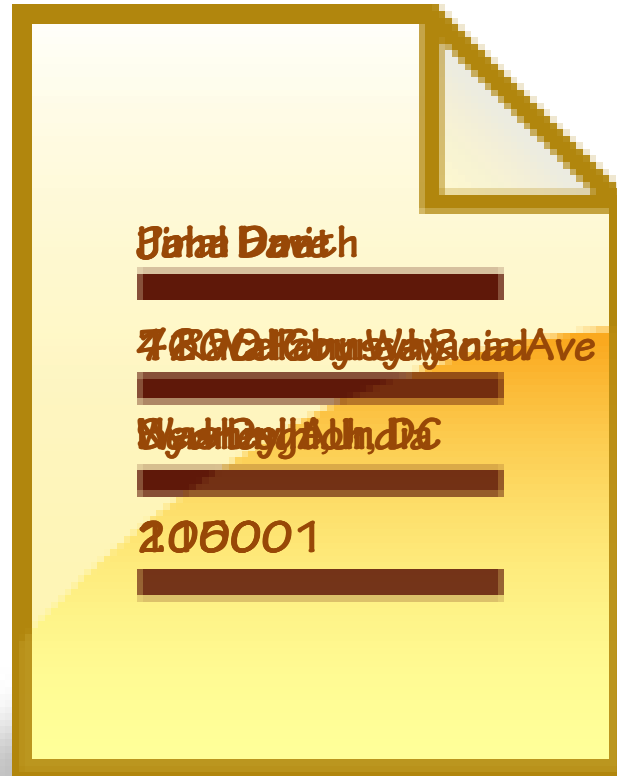


AngularJS Directives

Jim Cooper
@jimthecoop



Why do we need directives?



Web Components



```
<element extends="button" name="x-fancybutton"
  constructor="FancyButton">
  ...
  <script>
    FancyButton.prototype.razzle = function () { ... };
    FancyButton.prototype.dazzle = function () { ... };
  </script>
</element>
```

<http://www.w3.org/TR/components-intro/>

Do it Today with AngularJS Directives!

Uses for Directives

Custom Elements

Custom Events

Observe and React to Changes

Quiz

What are the different values you can use for the restrict property of a directive?

E, A, C, and M

What are two ways to specify the html that will be used by your directive?

template and templateUrl

In an isolate scope, how would bind a local scope property to a function you want to execute in the parent scope?

You would use the & prefix, such as myAttr: '&'

Quiz

How would you use a directive to observe changes to an attribute on an element?

In the link function, use `attrs.$observe('attrname',...)`

How would you use a directive to handle an event on an element?

In the link function, use `element.on('eventname', ...)`

What directive property allows you to use the controller from another directive?

`require`

Quiz

How can you prevent lower priority directives from executing?

`terminal: true`

How do you avoid losing content nested inside a directive?

`transclusion`

Which directive function should be used to manipulate the DOM?

`compile`

Summary

Custom Elements

Handle Events

Observe and React to Changes

Make jQuery Plugins Explicit

Exercises

1. Create a “focus” directive, which when placed on an input element, causes that element to receive the focus when a page first loads.
2. Create a directive that allows the save button to be clicked whenever the enter key is pressed on the newEvent page.
3. Replace the event and session html on the eventDetails page with custom “eventDetails” and “sessionThumbnail” directives.
4. On the NewEvent.html page, combine the eventDate input element and date-picker directive into a single date-input directive.