

View, Directives and Filters



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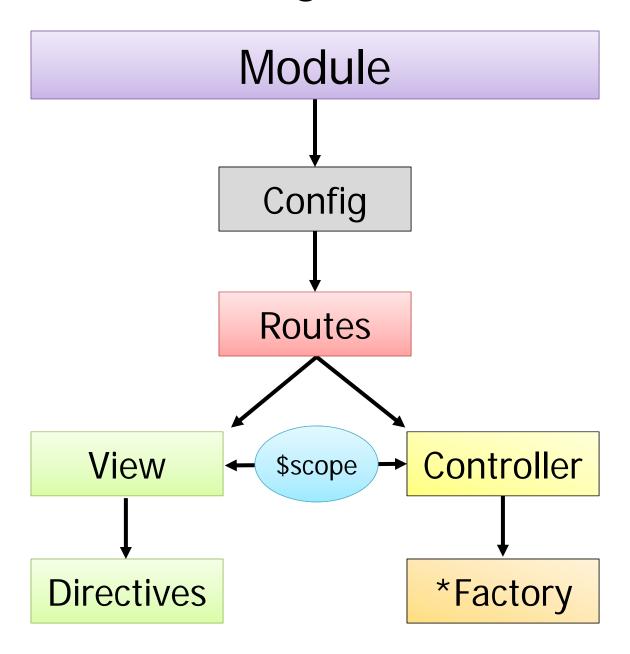
Data Binding Overview

Directives and Expressions

Iterating Over Data

Sorting and Formatting Data

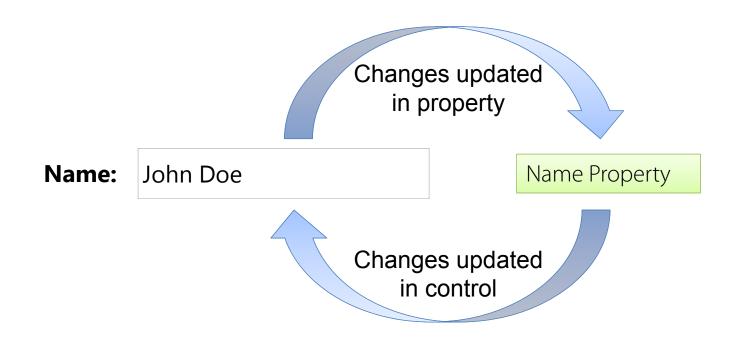
The Big Picture



Data Binding Overview

Data Binding

- JavaScript doesn't provide native support for data binding
- Two-way data binding can lead to significant reductions in code



Control-Oriented versus Data-Oriented

Control-Oriented Development Workflow

Name: John Doe Submit

1. Code assigns value to a textbox

document.getElementById('name').value = 'John Doe';

- 2. User modifies data
- 3. User clicks a button
- 4. Code pulls the value out of the textbox

var name = document.getElementById('name').value;

Data-Oriented Development Workflow

Name: John Doe Submit

1. Property is bound to a textbox

```
<input type="text" bindProperty="name" />
```

- 2. User modifies data
- 3. Property value is automatically updated!

Directives and Expressions

What are Directives?

Directives teach HTML new tricks!



What can Directives Do?

DOM Manipulation

View Loading

Data Binding



CSS

Controllers/ Modules **Events**

Examples of AngularJS Directives

DOM Manipulation

ng-hide

ng-repeat

ng-show

ng-view

Modules/Controllers

ng-app

ng-controller

Data Binding

ng-bind

ng-init

ng-model

Events

ng-click

ng-keypress

ng-mouseenter

Defining Directives

Directives can be defined multiple ways:

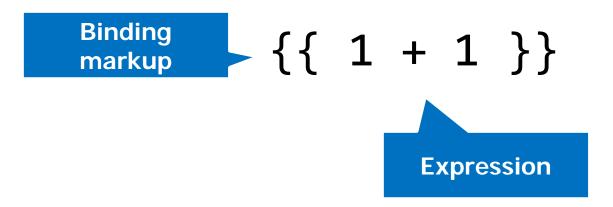
```
<div ng-hide="isHidden">

<div data-ng-hide="isHidden">

<ng-view></ng-view>
```

AngularJS Expressions

Expressions are code snippets placed in binding markup:



Iterating Over Data

Iterating with the ng-repeat Directive

```
chtml ng-app>
color ng-init="names=['Dave','Jeff','Heedy','Danny']">

chasterating through data with ng-repeat</hasterating through data with ng-repeat</hasterating color names">{{ name }}
color names names
```

Sorting and Formatting Data

Filters and Pipes

- AngularJS can "pipe" data through filtering, formatting, and sorting functions
- Uses the | character



Key AngularJS Filters

currency

date

filter

json

limitTo

lowercase

number

orderBy

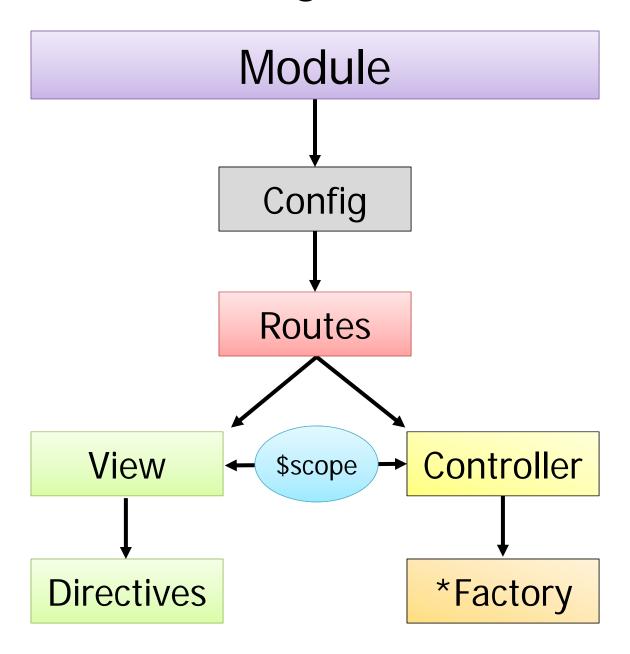
uppercase

Sorting and Formatting Data

Filtering Data

Summary

The Big Picture



Summary

- Views handle UI functionality
- Directives enhance HTML:
 - Manipulate the DOM
 - Used to reference model properties
 - Iterate over data and generate HTML
 - Much more..
- Filters are used to format, sort, or filter data