

# Angular JS Course Contents

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## Duration 4 days

### Introduction to AngularJS

- What does AngularJS do for me?
- Who controls AngularJS?
- How can I get AngularJS?

### Our first AngularJS application

- A basic application
- Using angular-seed
- The pieces of the puzzle
  - Two-way data binding
  - Directives
- How it fits together
  - How much of the page is an Angular application?
- Model, View, Controller from the AngularJS Perspective

### Single Page Applications

- What do we mean by Single Page Application?
- Creating Angular Modules
- Using Angular's Routing Service
  - Routing Basics
  - Accessing URL Data
  - Using the \$location Service
- Creating a Skeleton Single Page Application

### Controllers

- Where Controllers fit in, and what they do, from Angular's perspective
- Managing Scope
- Setting up Behavior
- Building a basic controller
- A more advanced controller

### Models

- How to create a model
- Explicit models

- Implicit models

## Views

- Angular's take on the View: a little bit different
- Tying a View to a Controller
- Tying a View to a model

## Expressions

- Expressions are lightweight code snippets
- Expression capabilities
- Limitations
- The border between expressions and \$eval

## Filters

- Standard filters
- Writing your own filter
- Tying filters together

## Scopes

- What are scopes?
- What do scopes provide?
- Scope lifecycle
- Scopes as glue between controller and view
- Scope hierarchies
- Scope and events

## Angular Forms

- Angular forms vs HTML forms
- Angular form controls
- Form events
- The form controller
- Form validation
  - CSS classes for form data

## Ajax, Data, and Angular

- High level interactions with servers
- Low-level server interactions with \$http
- The deferred/promises API
- Making RESTful Service calls with \$resource

## Directives

- Teaching HTML new tricks
- Binding text and attributes

- Directive processing lifecycle
  - DOM Processing
  - Compilation
  - Linking
- A basic directive
- Directives and scopes
- Creating reusable directives
- Turning directives into components

## Testing in Angular

- Unit testing
  - Working with Dependency Injection
  - Other unit testing issues
- End-to-end testing
  - Angular's E2E testing framework
  - Commands and expectations
  - Controlling what happens before and after the test
  - Running a scenario

## AngularJS 2.x Overview and Migration Strategy