

AngularJS

Session 1: Introduction

1. What does AngularJS do for me? How can I get AngularJS? Who Controls AngularJS? Single Page Application (SPA), the challenges with SPA's.
2. A basic application, Using Angular-seed, the pieces of the puzzle, how it fits together.
3. Models, view, controller from the AngularJS Prospective

Session 2: Single Page Application

1. Creating Angular Modules.
2. Using Angular Routing Services.
3. Creating a Skeleton of Single Page Application.

Session 3: Controllers, Models, Views, Expressions

1. Where controllers fit in, and what they do, from Angular's perspective.
2. Managing Scope, Setting up Behavior, Building a basic controller.
3. How to create a model, Explicit models, Implicit models.
4. Angular's take on the view: Typing a view to a controller, Typing a view to a model.
5. Expressions are lightweight code snippets, Expression capabilities, Limitations, The border between expressions and \$eval.

Session 4: Filters, Scopes, Angular Forms

1. Standard filters, writing your own filter, Typing filters together.
2. What are scopes? What do scopes provide? Scope lifecycle, scopes as glue between controller and view, scope hierarchies, scope and events.
3. Angular Form vs HTML forms, Angular form controls, Form events, The form controller, Form validation.

Session 5: Ajax, Data and Angular, Directives

1. High level interactions with servers, Low-level server interactions with \$http.
2. The deferred/promises API, making RESTful services calls with \$resource.
3. Teaching HTML new tricks, Binding text and attributes, Directive processing lifecycle.
4. A basic directive, Directives and scopes, Creating reusable directives, Turning directives into components.