



Ember 2

Preamble



Preamble

Overview

Overview
Prerequisites
Objectives
Outline
Expectations



Overview

- Ember 2
- Mind change from Server-side development to Client-side
- Model-View-ViewModel (MVVM) vs MVC
- ES6
- Lifecycle
- Dig-dig-dig



Preamble

Prerequisites

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Prerequisites

- Advanced HTML
- Advanced JavaScript
- CSS
- jQuery
- MVC

- Google Chrome
- Node.js installed
- IDE (Atom, Brackets, WebStorm, Sublime Text, Visual Studio Code)
- Access to npm



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Objectives

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Objectives

- Understand how client-side JavaScript MVC applications are designed and implemented
- Learn the infrastructure that Ember provides for building MVC applications
- Design and build the "Ember way" to get the most from this powerful framework



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Outline

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Outline

- Introduction
- Ember Quick Start
 - MVVM Design Pattern
 - Web Applications Built with Ember
 - Ember with ES6
 - Installing Ember
 - Core Concepts of an Ember Application
 - Creating a Single Page Web Application
- The Ember Command Line Interface (CLI)
 - Introduction
 - Setting up an App with Ember CLI
 - Building and Deploying the CLI App



Outline

- The Object Model

- Ember Objects
 - Classes and Instances
 - Computed Properties
 - Ember Observers, Bindings, and Enumerables

- Ember Routing

- Routing Essentials
 - Defining a Route
 - Setting the Route's Model
 - Rendering a Template with a Route
 - Using a Route to Redirect
 - Advanced Routing



Outline

Templates

- JavaScript Templates with Handlebars.js
 - Expressions
 - Conditionals and Loops
 - Links
 - Actions
 - Helpers
- Binding HTML Element Attributes

Ember Components

- Component Essentials
- Building Complex Components

Controllers

- Components vs Controllers in Ember 2.x



Outline

Ember Models

- Model Essentials
 - Defining Models
 - Finding Records in the Ember Data Store
 - CRUD in Ember 2
 - Ember Data Relationships
 - Pushing Records into the Store

– Advanced Models

Addons and Mixins

- Installing Addons
- Implementing Addons

Conclusion

Appendix: Using the Ember Inspector



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Expectations

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Expectations

- Range of knowledge level
- What's going to make this class great for you?
- Expectations around covered course materials
- Breaks?
- Lunch?
- Start and Stop on-time

