



## Ember 2

### Section 1 - Introduction

Object Model  
Routing  
Templates  
Components  
Controllers  
Models



# Section Objectives

- Understand the roles and responsibilities of the following Ember Objects:
  1. Object Model
  2. Routing
  3. Templates
  4. Components
  5. Controllers
  6. Models



## Introduction

## Object Model

**Object Model**  
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# Object Model

## ■ Ember.Object

*<http://emberjs.com/api/classes/Ember.Object.html>*

```
App
▼ i = $3
▶ f $: function(a,b)
▶ f Router: function()
  S _NAME_KEY_ [id=_ember148790564281128097046815]: "App"
▶ O _container_: {registry: Object, owner: i, cache: Object, factoryCache: Object, validationCache: Object, ...}
▶ O _deprecatedInstance_: i {_ember1487905642811: "ember116", base: i, application: i, _super: function, __registry__: Object, ...}
  N _ember1487905642811: null
▶ O _registry_: {fallback: null, resolver: i, registrations: Object, _typeInjections: Object, _injections: Object, ...}
▶ O _bootPromise: M {_id: 0, _label: undefined, _state: 1, _result: i, _subscribers: [], ...}
▶ O _bootResolver: {resolve: function, reject: function, promise: M}
  B _booted: true
  B _globalsMode: true
  N _readinessDeferrals: 0
▶ f _super: function()
  B autoboot: true
▶ i Prototype
```



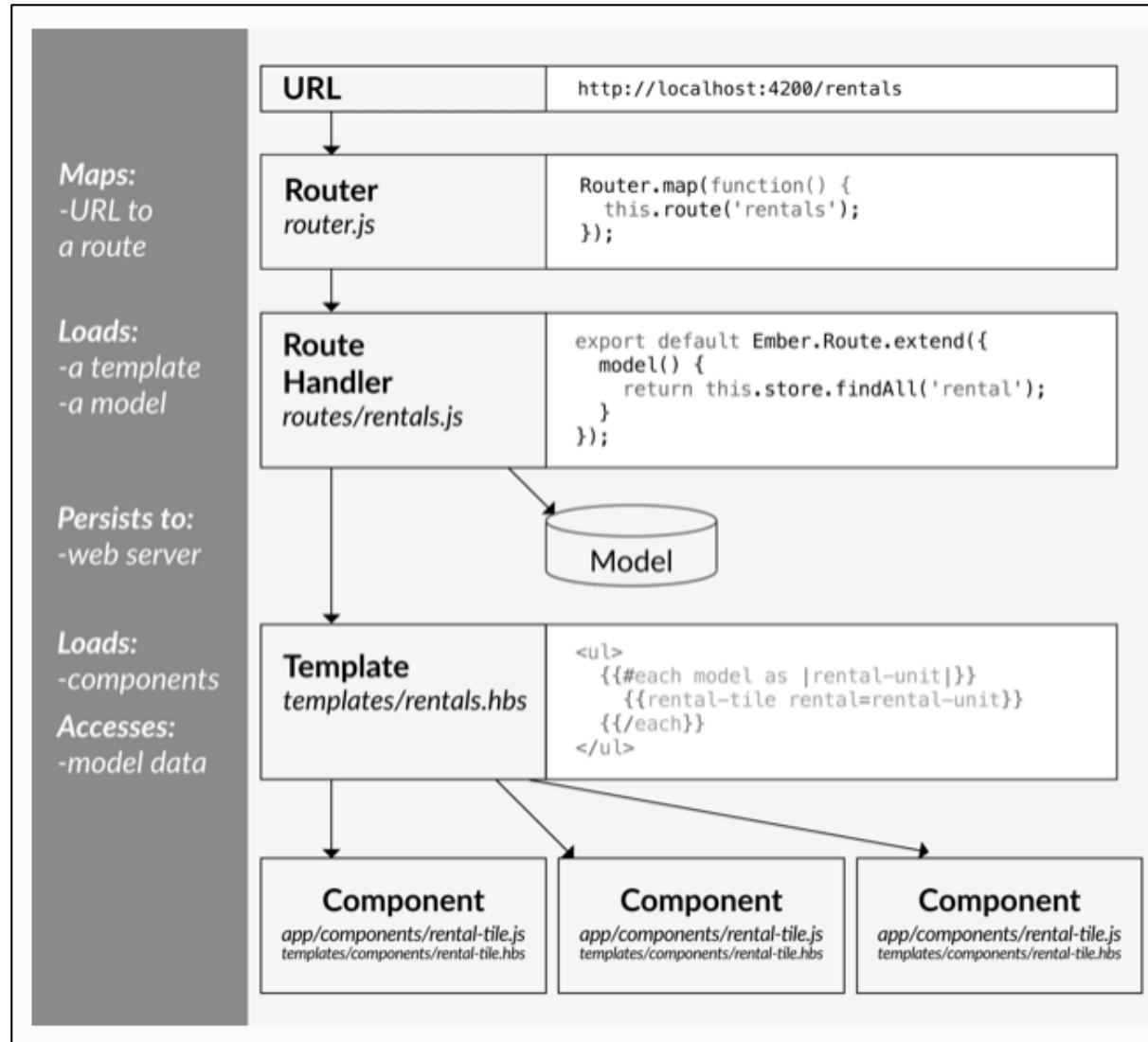
## Introduction

## Routing

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**Routing**  
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Controllers  
Models



# Routing



Source: <https://guides.emberjs.com/v2.11.0/getting-started/core-concepts/>



## Introduction

## Templates

Object Model  
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Controllers  
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# Templates

## ■ Handlebars - <http://handlebarsjs.com>

```
1  <html>
2      <head>
3          <title></title>
4          <script src="node_modules/handlebars/dist/handlebars.min.js"></script>
5          <script src="node_modules/jquery/dist/jquery.min.js"></script>
6      </head>
7      <body>
8          <script id="greeting-template" type="text/x-handlebars-template">
9              <h1>Hello, {{person.first_name}}!</h1>
10         </script>
11         <script>
12             let source = $("#greeting-template").html();
13             let template = Handlebars.compile(source);
14             let html = template({person: {first_name: "Steve", last_name: "Mask"}});
15
16             document.write(html);
17         </script>
18     </body>
19 </html>
```



## Introduction

## Components

Object Model  
Routing  
Templates  
**Components**  
Controllers  
Models



# Components

Component

```
1 {{app-profile person=currentUser}}
```

HBS

Template

```
1 <!-- app-profile template -->
2 <h1>{{person.title}}</h1>
3 {{yield}} <!-- block contents -->
4 <button {{action 'hello' person.name}}>
5   Say Hello to {{person.name}}
6 </button>
```

HBS

Source

```
1 App.AppProfileComponent = Ember.Component.extend({
2   actions: {
3     hello: function(name) {
4       console.log("Hello", name);
5     }
6   }
7 });
```

JS

Source: <http://emberjs.com/api/classes/Ember.Component.html>



## Introduction

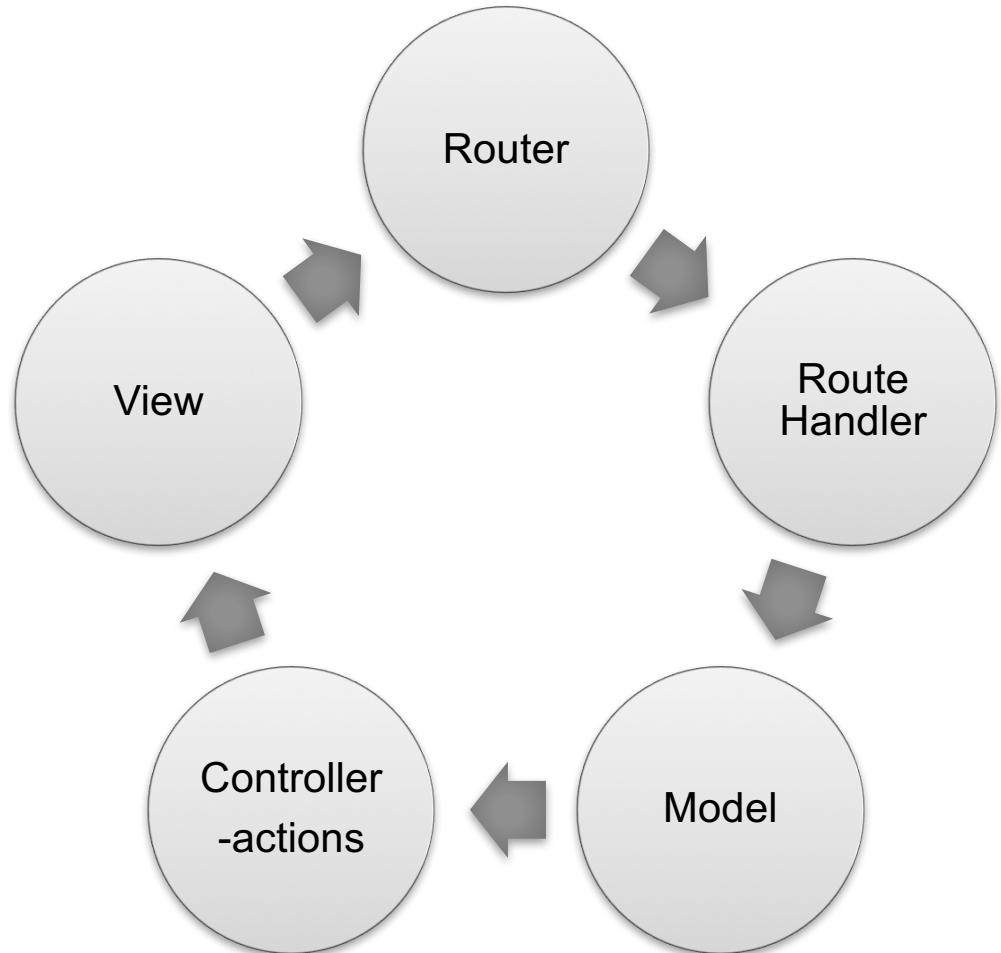
## Controllers

Object Model  
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# Controllers

- Specialized Component that is rendered by the Route
- Like Components, it is in charge of behaviors
- The Model from the Route is passed to it
- Controller name must the same as that of the Route





# Introduction

## Models

Object Model  
Routing  
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Components  
Controllers  
**Models**



# Models

- Models represent the data to be used by your Templates to render your views
- Data can come from many sources so an entire ecosystem of Adapters to access these different types of data stores are available without you writing any networking code

*<https://emberobserver.com/categories/ember-data-adapters>*

ember-local-storage

ember-pouch

ember-django-adatper

ember-socrata

ember-sqlite-adapter

emberfire

ember-graphql-adapter

active-model-adapter

ember-json-api

ember-wordpress



## Section Review

- Understand the roles and responsibilities of the following Ember Objects:
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# End of Section