

In this lecture, we will discuss...

- ✧ Default Rendering
- ✧ Controller Based Rendering
- ✧ Partials



Representations - Rendering

✧ Default Rendering

- Controller derives data to render
- View defaults to action requested
- Content form based on client specification

Representations - Rendering

✧ Controller Based Rendering

- Controller derives data to render
- Controller makes decision on action to render
- Controller makes decision on the format to render
 - Supply default format or overriding client specification

Example

- ✧ Create an **Hello** example with one **hello** action/view

```
$ rails g controller Hello sayhello
$ find app | grep hello
app/views/hello
app/views/hello/sayhello.html.erb
app/controllers/hello_controller.rb
app/helpers/hello_helper.rb
app/assets/stylesheets/hello.scss
app/assets/javascripts/hello.coffee
```



Example - changes

✧ hello_controller.rb



```
#app/controllers/hello_controller.rb
class HelloController < ApplicationController
  def sayhello
  end
end
```

✧ routes.rb



```
#config/routes.rb
get 'hello/sayhello'
```

✧ rake routes



```
$ rake routes | grep hello
hello_sayhello GET    /hello/sayhello(.:format)  hello#sayhello
```

Default Rendering

✧ (action).(format).(handler suffix)

- `sayhello.json.jbuilder` (JSON)
- `sayhello.xml.builder` (XML)
- `sayhello.text.raw` (RAW)

Default Rendering

✧ `#app/views/hello`

- `hello.json.builder` → `json.msg @msg`
- `hello.xml.builder` → `xml.msg @msg`
- raw text message from: → `hello.text.raw`

Default Rendering - Demo

```
> response=MoviesWS.get("/hello/sayhello.json")
> response.header.content_type
=> "application/json"
> response.body
=> "{\"msg\":null}"
```

```
> response=MoviesWS.get("/hello/sayhello.xml")
> response.header.content_type
=> "application/xml"
> response.body
=> "<msg/>"
```

```
> response=MoviesWS.get("/hello/sayhello.txt")
> response.header.content_type
=> "text/plain"
> response.body
=> "raw text message from: app/views/hello/sayhello.text.raw\n"
```



Controller Derived Data

- ✧ Derive data from model
- ✧ Store in controller instance variable

```
#app/controllers/hello_controller.rb
class HelloController < ApplicationController
  def sayhello
    @msg="hello world"
  end
end
```

```
> MoviesWS.get("/hello/sayhello.json").response.body
=> "{\"msg\":\"hello world\"}"

> MoviesWS.get("/hello/sayhello.xml").response.body
=> "<msg>hello world</msg>\n"
```



Controller Action Rendering

- ✧ Controller can have more active say in action rendered
- ✧ Define a route and action that takes a parameter

```
#config/routes.rb  
get 'hello/say/:something' => "hello#say"
```

- ✧ Controller action method with decision logic

```
#/hello/say/:something  
def say  
  case params[:something]  
  when "hello" then @msg="saying hello"; render action: :sayhello  
  when "goodbye" then @msg="saying goodbye"; render action: :saygoodbye  
  when "badword" then render nothing: true  
  else  
    render plain: "what do you want me to say?"  
  end  
end
```

Supported View Format

```
#app/views/hello/saygoodbye.json.jbuilder
json.msg1 @msg
json.msg2 "so long!"
```

```
#app/views/hello/saygoodbye.xml.builder
xml.msg do
  xml.msg1 @msg
  xml.msg2 "so long!"
end
```

Demo

✧ Request

`something=hello`

- supplied by caller

✧ Resulting View: sayhello

- determined by the controller

✧ Format `json` format

- Specified by caller

✧ Request

`something=goodbye`

- supplied by caller

✧ Resulting View: goodbye

- determined by the controller

✧ Format `xml` format

- Specified by caller

Partials - Example

- ✧ Partials allow you to easily organize and reuse your view code in a Rails application
- ✧ Filename starts with an underscore
- ✧ Action-independent
- ✧ Default path: `_(partial).(format).(handler suffix)`
 - `app/views/actors/_actor.json.jbuilder`
 - `app/views/actors/_actor.xml.builder`



Summary

✧ Different rendering approaches

What's Next?

✧ Versioning

