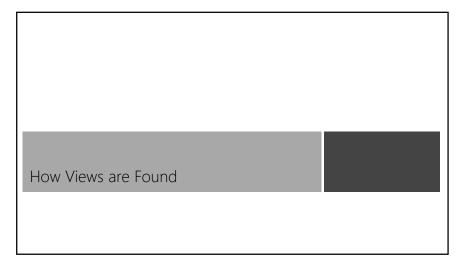
05 | Customizing Views

# Changing the Outlook on Views

- How Views are Found
- Views and Models
- Razor Syntax
- HtmlHelper
- Layouts



## Finding Views

- Views reside in the Views folder
- Subfolders
  - Name of the controller
  - Shared

#### View Resolution in Action

```
public class AlbumController : Controller
{
    public ActionResult Index()
    {
        return View();
    }
}
```

- 1. Look for a view named Index in a folder named Album
- 2. Look for a view named Index in a folder named Shared
- 3. Error

### View Resolution in Action Again

```
public class AlbumController : Controller
{
   public ActionResult Index()
   {
      return View("Default");
   }
}
```

- 1. Look for a view named Default in a folder named Album
- 2. Look for a view named Default in a folder named Shared
- 3. Error

# Views and Models

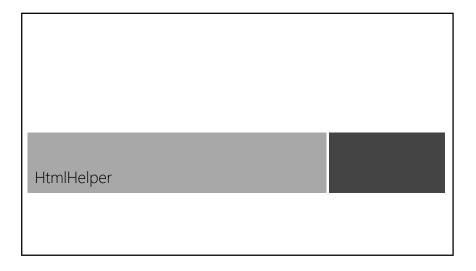
#### Views and Models

- Views have a model property
- Type is set by <code>@model</code> declaration
- Note the CaSiNg
- Advanced note
  - Views do not need to have a typed model
  - Useful for creating dynamic views

Razor Syntax	

# Razor Syntax

- @ indicates server-side code
- MVC runtime determines meaning of @ based on context
  - <a href="mailto:me@demo.com"> generates appropriate HTML
  - Use @@ for @



# HtmlHelper

- Helps generate HTML
- Uses attributes on model
  - Display names
  - Formatting
  - Input elements

## HtmlHelper and Lambdas

#### @Html.DisplayFor(model => model.Name)

- MVC uses reflection
  - Reflection isn't evil!
- Helper methods need the property, not the value
  - @Html.DisplayFor(Model.Name) would pass the value of Name
- Consider @Html.DisplayFor(m => m.Name) for easier reading

## Displaying Data

- DisplayNameFor
  - DisplayName attribute
  - Display attribute, Name property
- DisplayFor
  - Uses DisplayFormat (if applicable)

#### Creating Forms

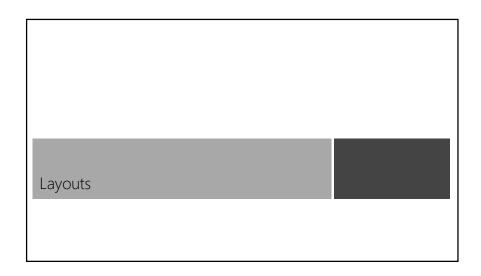
- HtmlHelper.BeginForm()
- Why not just use a form element?
  - URLs can always change
- Parameters
  - Action name
  - Controller name
  - Form method
    - Get
    - Post

### Accepting Input

- LabelFor
  - Creates a label element
  - Useful for touch
- InputFor
  - Creates input element
  - Uses HTML5 based on DataType attribute

#### Validation

- ValidationMessageFor
  - Display error message next to text box
- ValidationSummary
  - Display all error messages in one location



My Music Store					
New This Week!  Deleted Smiths Singles  Original - not rereleased - Frank Zappa Albums	<b>Welcome!</b> Feel free to look around.  All records are available for sale.	Popular Items The Three EPs The Beta Band  I Just Called to Say I Love You Stevie Wonder  FAQs Q: Do you have soul? A: That all depends.			

# Organization and Consistency

- Use layouts to ensure consistent page structure
- Layout methods
  - RenderBody()
    - Renders anything in a view not in a section
  - RenderSection(name, required)
    - Allow views to add specific sections
      - Scripts
      - Banners
    - \_ Sidobar
    - Use @section name to create section in view
      - Note the casing

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