

Building Applications with ASP.NET MVC

@{ Views }

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Syntax

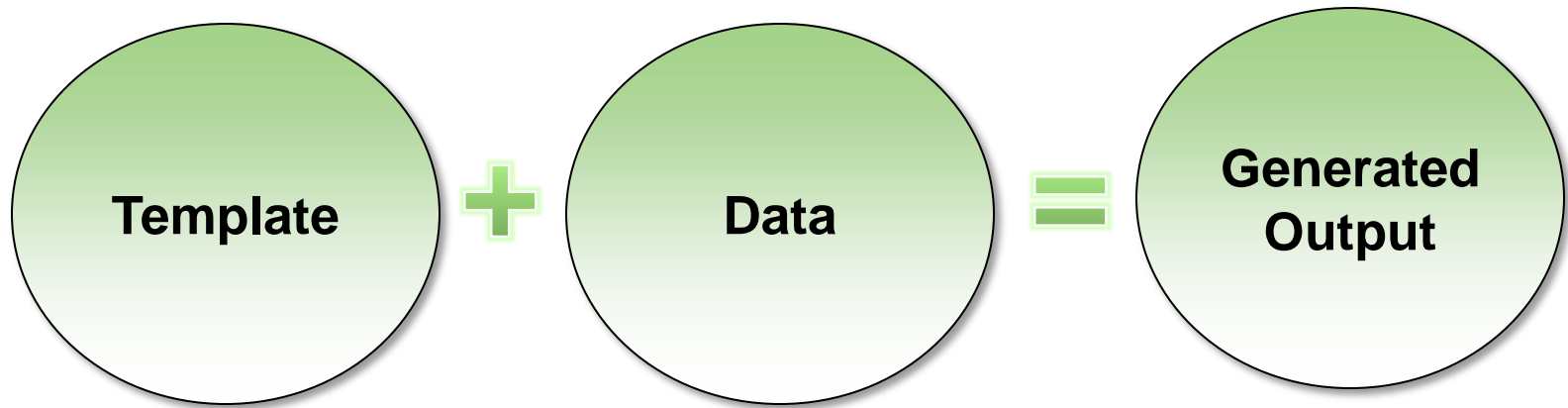
**Partial
Views**

**HTML
Helpers**

Layout

**XSS &
CSRF**

Razor Templates



Layout with Razor

- Layout views are “master pages” for razor
- Use inherited methods to specify content areas
 - RenderBody
 - RenderSection

```
<!DOCTYPE html>
<html>
<head>
    <title>@ViewBag.Title</title>
    <script src="@Url.Content("~/Scripts/jquery-1.4.4.min.js")"
        type="text/javascript"></script>
</head>

<body>
    @RenderBody()
</body>
</html>
```

HTML Helpers

- **Html is a property of the ViewPage base class**
 - Create inputs
 - Create links
 - Create forms

```
@using (Html.BeginForm()) {  
    @Html.ValidationSummary(true)  
    <div class="editor-label">  
        @Html.LabelFor(model => model.FirstName)  
    </div>  
    <div class="editor-field">  
        @Html.EditorFor(model => model.FirstName)  
        @Html.ValidationMessageFor(model => model.FirstName)  
    </div>  
}
```

Custom Helpers

- Write extension methods for the HtmlHelper class
 - Return string or override ToString method
 - TagBuilder manages closing tags and attributes
 - Add namespace in web.config
- The place for complicated view logic

```
public static TagBuilder Image(this HtmlHelper helper,
                              string imageUrl, string alt)
{
    TagBuilder imageTag = new TagBuilder("img");
    imageTag.MergeAttribute("src", imageUrl);
    imageTag.MergeAttribute("alt", alt);
    return imageTag;
}
```

Partials

- Partial views render portions of a page
 - Reuse pieces of a view
 - Html helpers – Partial and Action
- Razor partial views are still .cshtml files

```
@foreach (var item in Model)
{
    @Html.Partial("_movieRecord", item)
}
```

```
@model Movie
<tr>
    <td>
        @Html.ActionLink("Edit", "Edit", new { id = this.Model.ID }) |
        @Html.ActionLink("Details", "Details", new { id = Model.ID })
    </td>
    <td>
        @Model.Title
    </td>
</tr>
```

Html.Action vs Html.Partial

- **Partial**

- Use partials to reuse markup

- **Action**

- Think "sub-request"
 - Let controller build sub-model, select partial view

```
@Html.RenderPartial("movieDetail", Model.Movie)
```

```
@Html.RenderAction("show", "weather", new { postalCode="21740" })
```

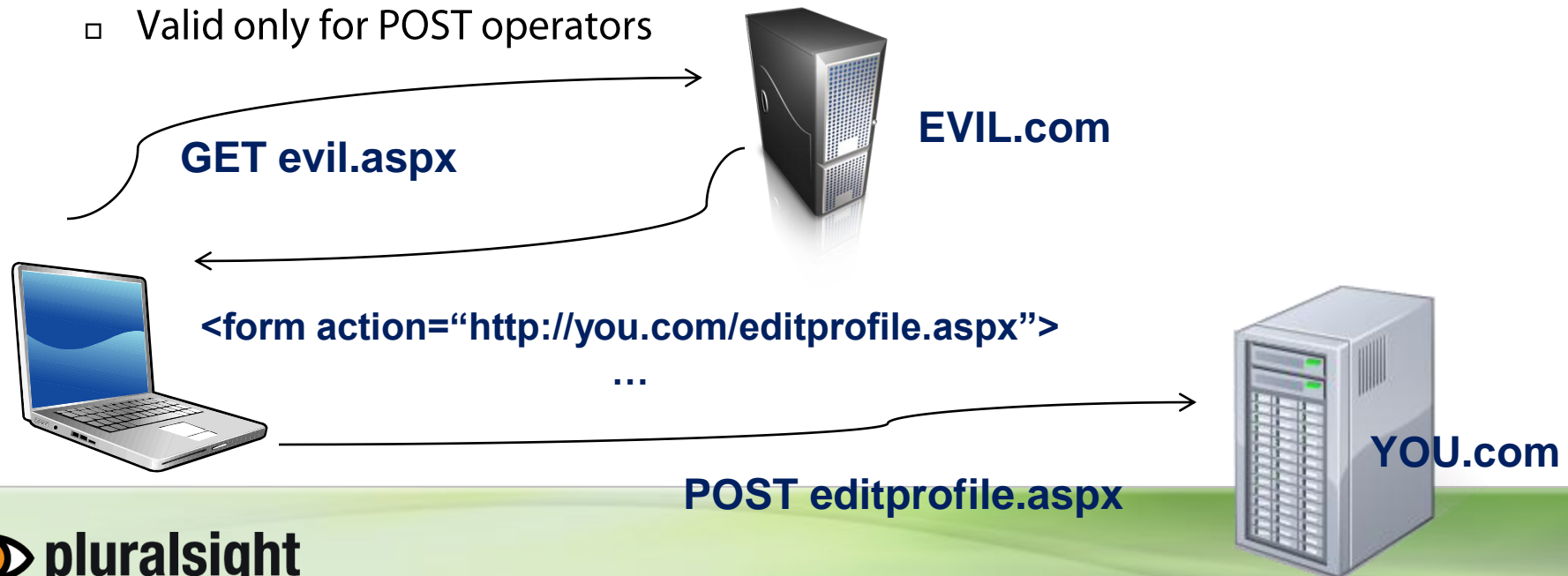

Security

- **Encoding**

- Helps to avoid XSS attacks
- Not encoding user input makes you particularly vulnerable

- **Html.AntiForgeryToken**

- Helps to avoid CSRF attacks
- Requires a ValidateAntiForgeryToken attribute on controller action
- Valid only for POST operators



Summary

Syntax

**Partial
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