



# Advanced ASP.NET MVC 2

---

**Brad Wilson**

<http://bradwilson.typepad.com/>

[bradwils@microsoft.com](mailto:bradwils@microsoft.com)

[@bradwilson](#)



# What's new in MVC 2?

*In 10 minutes or less*



# Targeting



*Out of band installer*

**.NET 3.5 SPI**



*Ships in the box*

**.NET 3.5 SPI**

**.NET 4**

***Not part of the .NET Framework***



# Strongly-Typed UI Helpers

- Overrides for existing UI helpers
- Use expressions based on models

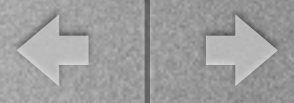
```
Html.TextBox("FirstName")
```

```
Html.TextBoxFor(m => m.FirstName)
```



# Validation

- Automatic validation during model binding
- Extensible validation & metadata API
- *Server side*: DataAnnotations attributes
- *Client side*: ASP.NET Ajax 4
- *3rd Party*: Castle Validator, EntLib, etc.



# Dynamic Scaffolding

```
<% using (Html.BeginForm()) { %>
    <%= Html.ValidationSummary(true, "Login was unsuccessful. Please correct the errors and try again.") %>
    <fieldset>
        <legend>Account Information</legend>
        <%= Html.EditorForModel() %>
        <p><input type="submit" value="Log On" /></p>
    </fieldset>
```

+

```
<% } %>
```

```
public class LogOnModel
{
    [Required]
    [DisplayName("User name")]
    public string UserName { get; set; }

    [Required]
    [DataType(DataType.Password)]
    [DisplayName("Password")]
    public string Password { get; set; }

    [DisplayName("Remember me?")]
    public bool RememberMe { get; set; }
}
```

=

**Account Information**

User name

Password

Remember me?



# Dynamic Scaffolding

- Automatic display and editing
- HTML helpers
- Customizable by controller, area, & site
- Built-in templates:  
*Text (single & multi-line), password, decimal, boolean (2- and 3-state), hidden, HTML, e-mail address, URL, collection, complex object*



# Areas

- Organize a large application into multiple logical areas
- Directory structure that mimics project conventions (Controllers, Models, Views)
- Automatic route registration





# RenderAction

- Alternative to RenderPartial
- Executes independent action
  - `[ChildActionOnly]`
- Comparable to user controls in WebForms
- Some action filter limitations



# AsyncController

- Helps build scalable sites
- Non-blocking calls to external services or inherently parallelizable algorithms
- Async Event Pattern:
  - ActionAsync*
  - ActionCompleted*



# Miscellany

- ASP.NET Ajax 4, jQuery 1.4.1, jQuery Validation 1.6
- Empty project template
- Code snippets
- ASP.NET 4 support
  - `<%: %>` auto-encoding syntax
  - `ViewPage<dynamic>` for untyped views



# PUT and DELETE & Resource Routing

*demo*



# Customizing Static Scaffolding

***demo***



# Customizing Dynamic Scaffolding

***demo***



# Custom Server- and Client-Side Validation

***demo***



# Async Controller (Parallel Twitter Search)

***demo***





# Q&A and Thank You!

---

<http://bradwilson.typepad.com>  
bradwils@microsoft.com  
@bradwilson