



What's New In Razor 2

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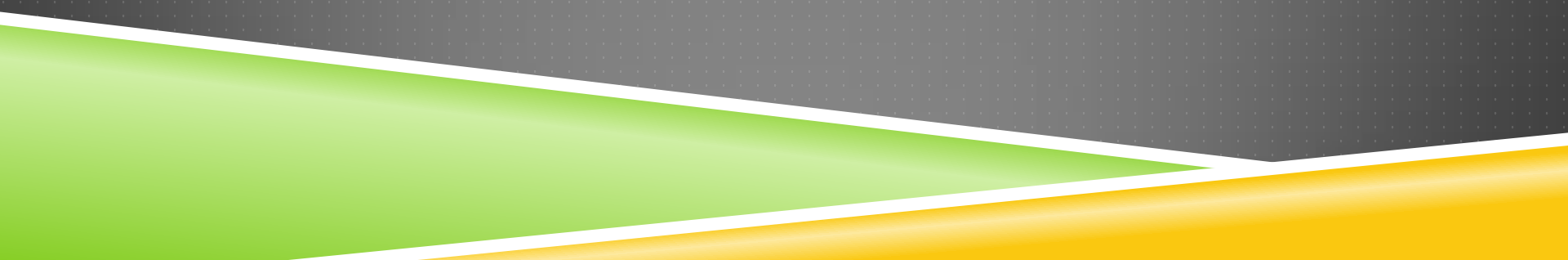
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AGENDA

- ▶ “Level Set”
- ▶ What we did in v2
- ▶ Demos

WHAT IS RAZOR?

- ▶ (Relatively) New View Engine for ASP.Net
 - ▶ Works with the MVC Framework and the WebPages framework
 - ▶ Very basic page model
 - ▶ Fluent syntax with little extraneous noise
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WHAT IS RAZOR?

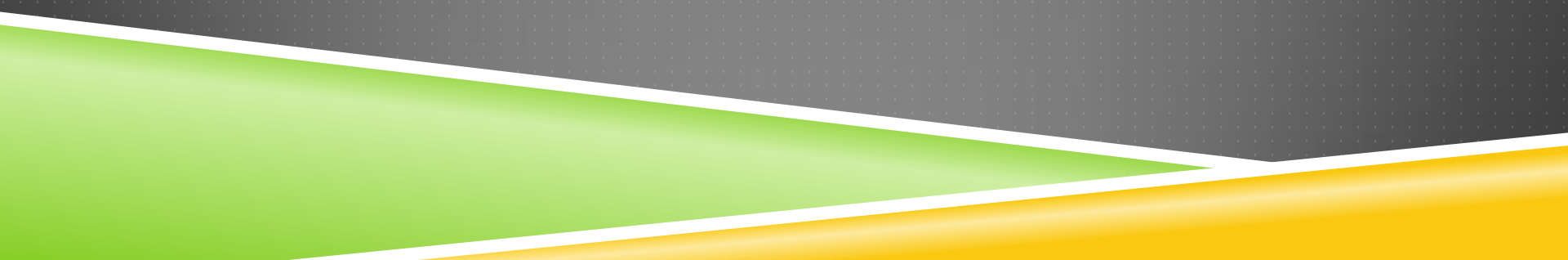
► Old and busted:

```
<% if(products.Any()) { %>
    <ul>
        <% foreach(var p in products) { %>
            <li><%= p.Name %></li>
        <% } %>
    </ul>
<% } %>
```

► New hotness

```
@if(products.Any()) {
    <ul>
        @foreach(var p in products) {
            <li>@p.Name</li>
        }
    </ul>
}
```

RAZOR DESIGN GOALS

- ▶ Keep it Simple (... you know who)
 - ▶ Only enough cleverness to make it seem magic, not enough to make it confusing
 - ▶ Fall in to the pit of success
 - ▶ Hostable, Testable, and other fun “-able”s
- 

SIDE-BY-SIDE BULLET POINT PARADE!

ASPX

- ▶ `<% if() { %>...<% } %>`
- ▶ `<%: Foo.Bar().Baz %>`
- ▶ `<%: | + | %>`
- ▶ `<asp:Content ... Foo ...></>`
- ▶ `<script runat="server">...</>`

Razor

- ▶ `@if() { ... }`
- ▶ `@Foo.Bar().Baz`
- ▶ `@(|+|)`
- ▶ `@section Foo { ... }`
- ▶ `@functions { ... }`

RAZOR AND THE WIDE WORLD OF .NET

ASP.NET
MVC View
Engine

ASP.Net
WebPages

?

Razor

THE NEW STUFF

- ▶ ~/
- ▶ Conditional Attributes
- ▶ @layout
- ▶ Config-free extensibility

~/

- ▶ No more “Url.Content”!

- ▶ The old way:

```
<script src="@Url.Content("~/Scripts/jquery.js")"></script>
```

- ▶ The new way:

```
<script src("~/Scripts/jquery.js")></script>
```

~/ - THE DETAILS

- ▶ Any (and ALL) HTML attribute values starting with “~/” will be considered app-relative URLs to be resolved
- ▶ Inject parameters using “@” just like you would a normal attribute value:
 - ▶ `Foo`

CONDITIONAL ATTRIBUTES

- ▶ No more funky if statements!

- ▶ The old way:

```
<input type="checkbox" @if(p.RememberMe) {  
<text>checked="checked"</text> } />
```

- ▶ The new way:

```
<input type="checkbox" checked="@p.RememberMe" />
```

CONDITIONAL ATTRIBUTES – THE DETAILS

- ▶ Whenever we see something like “@*expr*” in an attribute value, we do run special logic:
 1. Does *expr* evaluate to null or false?
 1. Yes. Don’t render it and “collapse” spaces/names
 2. No. Does *expr* evaluate to true?
 1. Yes. Render the attribute name again
 2. No. Render *expr* as a string

CONDITIONAL ATTRIBUTES – COLLAPSING SPACES/NAMES

► ``

c1	c2	Output
null	null	<code></code>
"Foo"	null	<code></code>
null	"Bar"	<code></code>
"Foo"	"Bar"	<code></code>

@LAYOUT

- ▶ @layout ~/Foo/_Bar.cshtml
 - ▶ Set the layout page to “~/Foo/_Bar.cshtml”
 - ▶ Identical to Layout = “~/Foo/_Bar.cshtml”

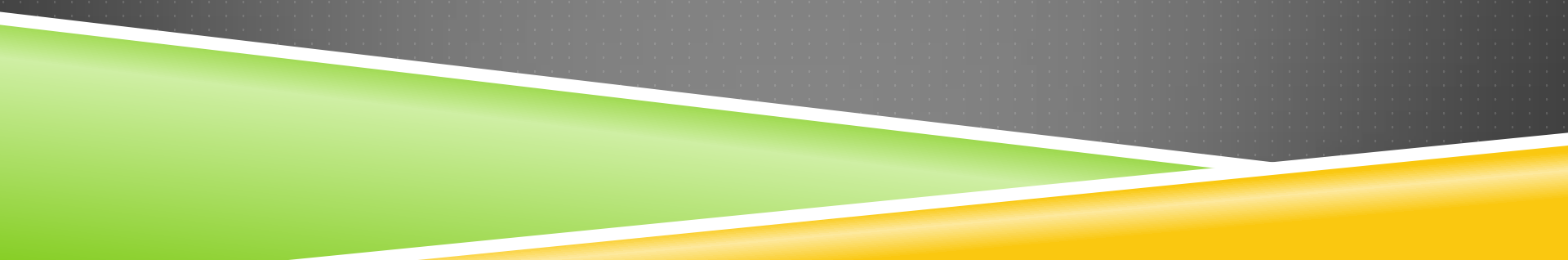
CONFIG-FREE EXTENSIBILITY

- ▶ Do all sorts of configuration from code, without ever needing a `web.config` file!
- ▶ New static event on `RazorBuildProvider`
 - ▶ “`CompilingPath`” called whenever Razor is about to compile a particular file and given the `VirtualPath` and all the configuration details you can adjust

Razor 2!

DEMO TIME!

THE FUTURE OF RAZOR

- ▶ Razor is not done!
 - ▶ Still looking for more ways to write simpler code
 - ▶ We want to make Razor more extensible, more easily hostable, more testable
 - ▶ More open and transparent
- 

IDEAS

- ▶ Make it easier to write custom keywords
 - ▶ I'll show you how in my Advanced Razor talk tomorrow. But it's not easy...
- ▶ More and more helpful syntax
 - ▶ Collapse extra whitespace? (HTML Minification)
- ▶ More hostable, in more places
 - ▶ Razor depends on .NET Client Profile, won't run on WP7, SL, WinRT, etc. ☹

The End!

QUESTION & ANSWER