Preparing for ASP.NET 5

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    - [https://github.com/rhurlbut/PrepareForAspNet5Demos](https://github.com/rhurlbut/PrepareForAspNet5Demos)
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The ASP.NET you know …

… is going through …

… some changes …
What?!! Another ASP.NET??

Let‘s lift the fog and see what it means ...
Disclaimer

This is all new and it **may** **will** change …

Driving on the edge is like that …

Enjoy the ride!
ASP.NET 5 is now …

• open source
• cross-platform
• lean
• re-designed
New Features in ASP.NET 5

• New project templates in VS 2015
• New file-based project system in VS 2015
• New configuration layout
New Features in ASP.NET 5

• Dynamic compilation
• Thank you “Roslyn” (.NET Compiler Platform)!
New Features in ASP.NET 5

• Full .NET Framework and “Cloud-Ready” Core
ASP.NET 5 hosting

• Internet Information Services (IIS)
• Open Web Interface for .NET (OWIN) based server
• Kestrel server
• Self-hosted in a custom process
MVC 6

• Unified with MVC + Web API (and Web Pages)
• Leaner – No System.Web! (2kb vs 30kb per request)
• Single controller, routing framework, model binding framework, filter pipeline
• Dependency Injection, View Components, TagHelpers, ...

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Lots of Javascript goodness

• Node.js installed by default with VS 2015 (includes npm)
• Works well with AngularJS and other Javascript MVC Frameworks
• Able to use bower and grunt for JS management – easy to plug in gulp, too.
Demo Time: Test Driving
What should I learn now?

• Startup
  • Be familiar with OWIN / Katana “style” of Startup – currently available in MVC 5 and WebAPI 2.x

• Configuration changes
  • Become familiar with JSON format and Javascript tools (bower, grunt, gulp, etc.)
  • Get more comfortable / familiar with NuGet

• Deployment changes
How easy to upgrade existing projects?

- Standard MVC Controllers / Views / Models should move over
- Some changes needed for WebAPI 2.x using a “shim” (Microsoft.AspNet.Mvc.WebApiCompatShim)
- Need some updating to Startup.cs (minor)
- Few updates on controls / helpers needed
What if I don’t (can’t) want to upgrade?

- Only C# supported on ASP.NET 5 v1
  - May want to wait if developing in VB.NET, F#, etc.
- ASP.NET Web Forms will not be supported on ASP.NET 5 (but will be on .NET 4.6)
- Everything that works for you in Visual Studio today (should) work for you Visual Studio 2015
Resources (1 of 3)

- ASP.NET vNext
  [http://www.asp.net/vnext](http://www.asp.net/vnext)
- ASP.NET 5 Community Standup (YouTube videos by Scott Hanselman)
  [http://roberthurlbut.com/r/aspnet5communitystandup](http://roberthurlbut.com/r/aspnet5communitystandup)
- ASP.NET 5: First Look (Pluralsight Course by Scott Allen)
Resources (2 of 3)

• GitHub – ASP.NET 5
  https://github.com/aspnet
  https://github.com/aspnet/Home

• .NET Foundation
  http://www.dotnetfoundation.org
  https://github.com/dotnet

• ASP.NET 5 Nightly Builds
  https://www.myget.org/gallery/aspnetvnext
  https://www.myget.org/gallery/aspnetmaster
Resources - Tools

• Visual Studio 2015 (used CTP 6 for this presentation)
  Fixed issues: https://support.microsoft.com/en-us/kb/2967191

• OmniSharp – Cross Platform .NET Development in the editor of your choice
  http://www.omnisharp.net
  https://github.com/OmniSharp

• Sublime Text
  http://www.sublimetext.com
Questions?

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