

# Preparing for ASP.NET 5

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# Robert Hurlbut

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- Microsoft MVP – Security Developer 2005-2009, (ISC)2 CSSLP 2014-2017
- Leader – Boston .NET Architecture Group
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<http://roberthurlbut.com/training/presentations>  
<https://github.com/rhurlbut/PrepareForAspNet5Demos>

# Agenda

- Review new features in ASP.NET 5
- What do I need to learn now?

# 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

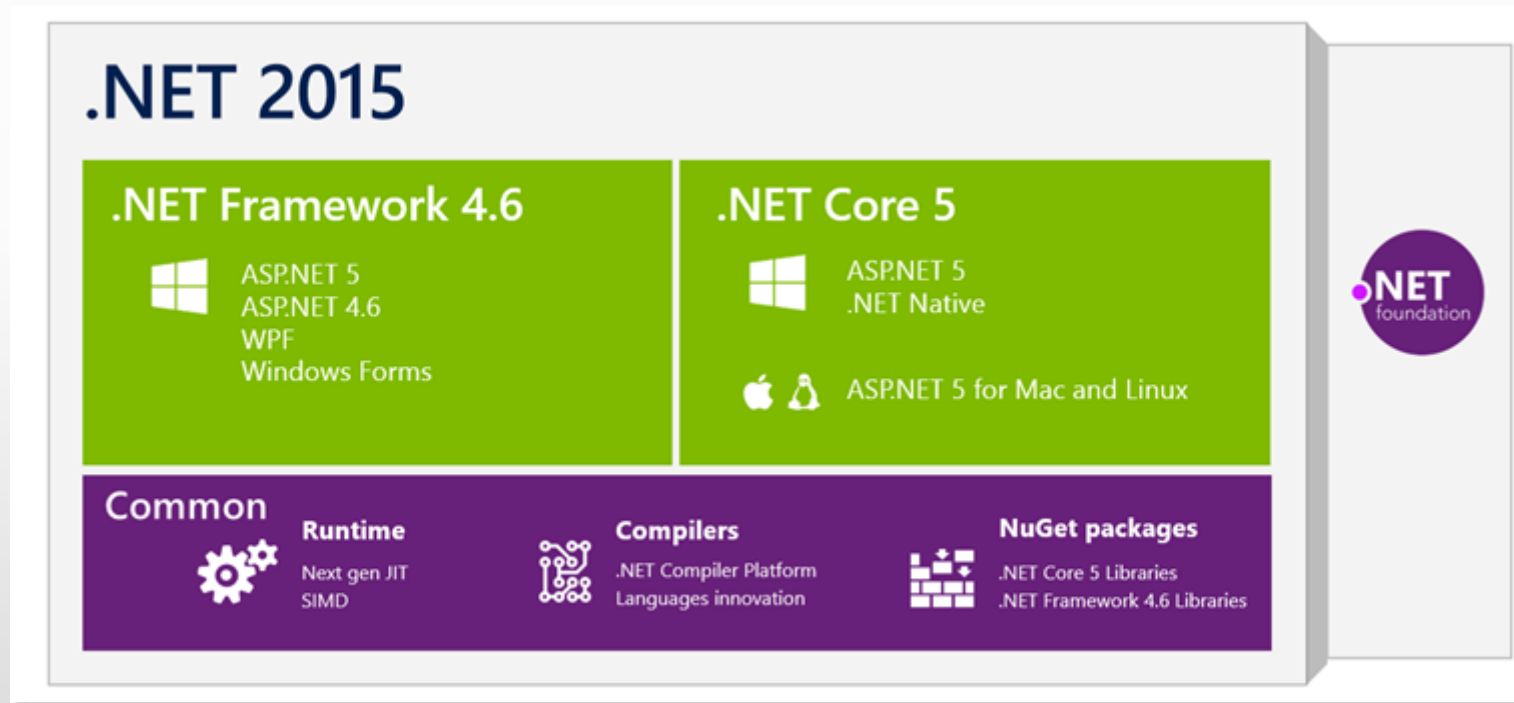
- New project templates in VS 2015
- New file-based project system in VS 2015
- New configuration layout

# 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, ...

# 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.

A perspective view of a paved road with a double yellow center line and white edge lines, stretching into the distance. The road is flanked by tall, dense pine trees. The sky is bright and hazy, suggesting a misty or overcast day. The overall atmosphere is serene and natural.

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>

- ASP.NET 5 Community Standup (YouTube videos by Scott Hanselman)

<http://roberthurlbut.com/r/aspnet5communitystandup>

- ASP.NET 5: First Look (Pluralsight Course by Scott Allen)

<http://www.pluralsight.com/courses/asp-dotnet-5-first-look>



# 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)

<https://www.visualstudio.com/en-us/news/vs2015-vs.aspx>

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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