

# 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
- Speaker at user groups and conferences



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<http://roberthurlbut.com/training/presentations>  
<https://github.com/rhurlbut/PrepareForAspNet5Demos>

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The ASP.NET you know ...

... is going through ...

... ***some changes*** ...

A black and white photograph of a two-lane road stretching into the distance, completely obscured by a thick, dense fog. The road has a dashed white center line and solid white edge lines. Bare trees line the sides of the road, their forms softened by the mist. The overall atmosphere is one of mystery and uncertainty.

**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

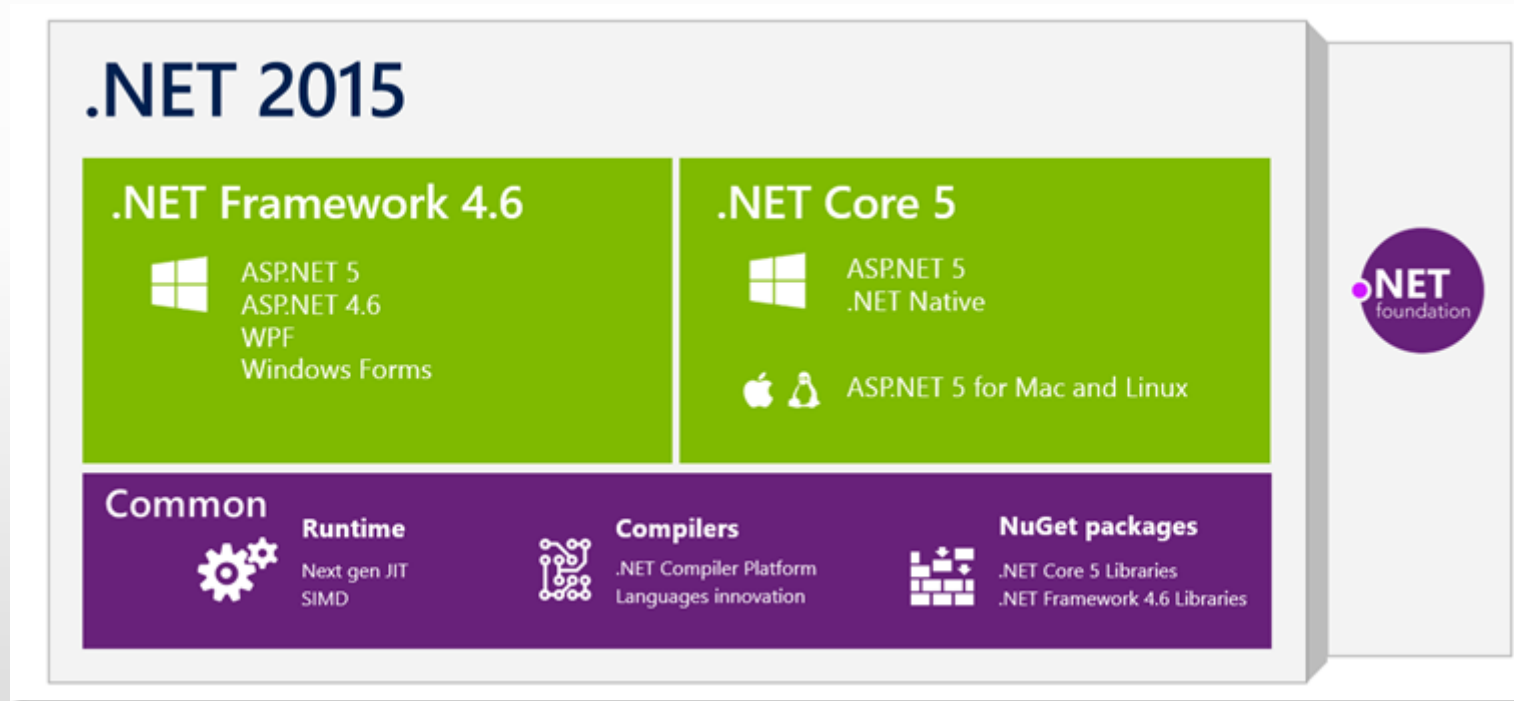


# New Features in ASP.NET 5

- 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, ...

# 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 evergreen trees, likely pines, which create a tunnel-like effect. The sky is bright and slightly hazy. 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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