

# Building a Web App with ASP.NET Core RC1, MVC 6, EF7 & AngularJS

What Is ASP.NET 5?



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# Course Overview



What is this course?

- Build a web app using ASP.NET 5
- Learn by doing
- Feel free to follow along
- You'll see it all

# Course Overview



What this course will teach you:

- ASP.NET 5 and MVC6
- HTML5, JavaScript, CSS
- Using Bootstrap
- Data with Entity Framework
- Client-side with AngularJS

# Course Overview



What is this course built with?

- Visual Studio 2015
- ASP.NET 5 RC1
- Entity Framework 7 RC1
- Bootstrap 3.3
- AngularJS 1.4

# This Module

## ASP.NET 5 Basics



# Why Reinvent ASP.NET?

- What was the motivation?
  - The Web Stack is \*old\*!
  - Weighed down by old, unused code
    - Primarily in System.Web
  - Depending on machine level upgrades to .NET was problematic
  - Performance was as fast as it could be on existing platform

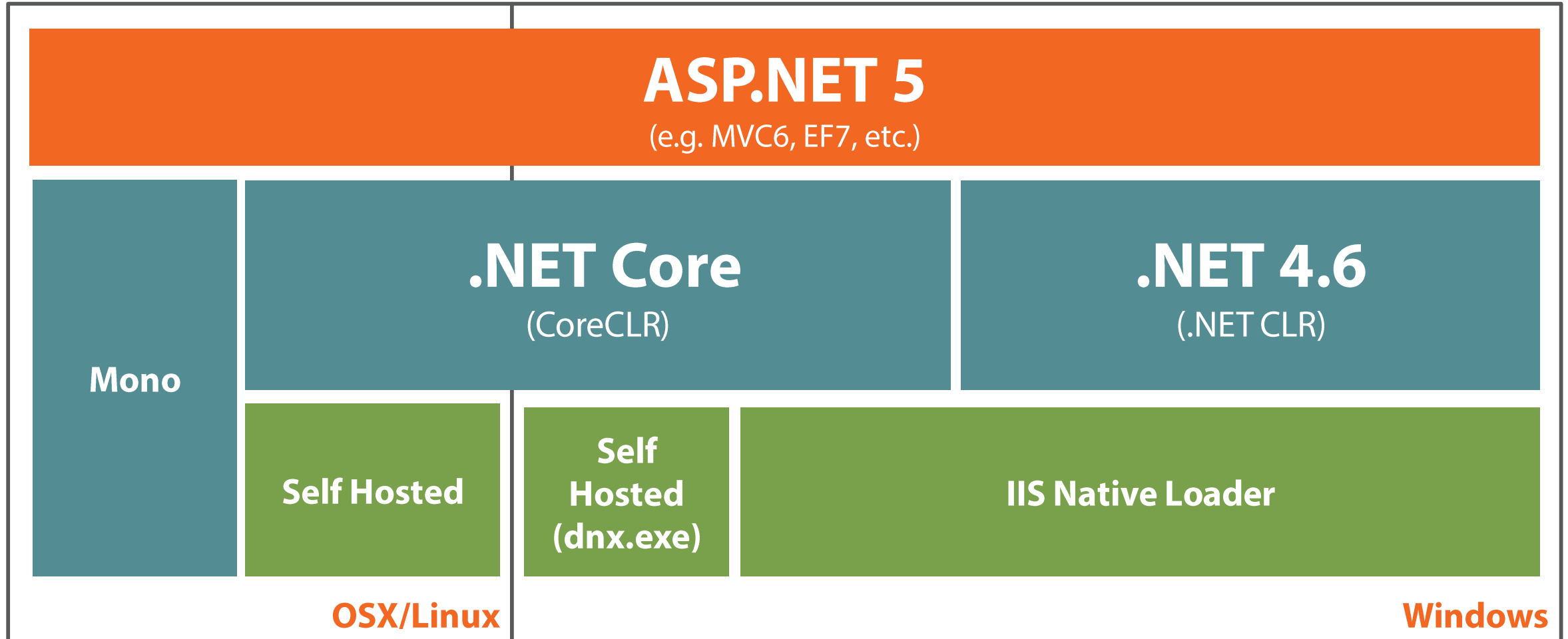
ASP.NET 5 is a complete  
rethinking of the platform.

# What Is ASP.NET 5?

- Complete re-write of the platform
  - Cross-platform and open source
  - Single platform (MVC and WebAPI are combined, and WebForms is gone)
  - Everything is a dependency – your app will be as lean as you like
  - Low memory footprint
  - Multiple deployment support
    - Cloud, IIS, Self-Hosting, etc.



# Overview



# Three Frameworks?

- Frameworks are about cross-platform
  - .NET 4.6
    - The .NET you've always known
  - .NET Core
    - The cross-platform .NET Framework (in progress!)
  - Mono
    - The existing open source cross-platform .NET Framework

CoreCLR is a subset of the .NET Framework. You'll need to work around missing functionality outside core of ASP.NET 5.

# Completely Composed

- Everything above the .NET layer is a NuGet Package
  - The frameworks are the bootstrap and CLR, not much more
  - MVC, StaticFiles, Logging, Configuration, Identity, etc. are all just packages
  - Everything is optional

# Embraces Open Web Development

- Uses existing web development tooling
  - NPM for tooling support
  - Bower for client-side library support
  - Grunt and Gulp for build automation
  - NuGet for .NET Packages
  - None of it is required

# Demo

Installing ASP.NET 5



# Demo

Hello World



# Demo

Creating a Project for VS Code





# Demo

The Empty Project with Visual Studio



# Demo

Where We're Headed



# What We've Learned

## What is ASP.NET 5?

It's a whole new .NET world out there!

You have full support to go command-line or IDE

Open Source top-to-bottom