

# Building a Web App with ASP.NET Core, MVC 6, EF Core, and Angular

## What Is ASP.NET Core?



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# Course Overview



What is this course?

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

# Course Overview



What this course will teach you:

- ASP.NET Core and MVC 6
- HTML5, JavaScript, CSS
- Using Bootstrap
- Data with Entity Framework Core
- Client-side with AngularJS

# Course Overview



What is this course built with?

- Visual Studio 2015 w/Update 3
- ASP.NET Core 1.0
- Entity Framework Core 1.0
- Bootstrap 3.3
- AngularJS 1.5

# Questions During the Course?

The screenshot shows the Pluralsight interface for a course. At the top, there's a search bar with the text "What do you want to learn?". The course title "Building a Web App with ASP.NET Core RC1, MVC 6, EF7 & AngularJS" is prominently displayed in white text on a blue background. Below the title, it says "by Shawn Wildermuth". A description follows: "Understanding how to build an app using the full-stack of technologies of web development can be hard. In this course, we'll walk you completely through a complete application to see how everything works together." A "Resume Course" button is visible. On the right side, there's a section for the course author, Shawn Wildermuth, with his profile picture and a bio. Below that, the "Course info" section lists details: Level (Beginner), Rating (4.5 stars from 2003 reviews), My rating (5 stars), Duration (9h 21m), and Updated (3 Nov 2015). At the bottom, a navigation bar contains tabs: "Table of contents", "Description", "Transcript", "Exercise files", "Discussion", "Learning Check", and "Recommended". A red arrow points to the "Discussion" tab, which is highlighted with an orange underline. The Pluralsight logo is in the bottom right corner.

What do you want to learn?

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

by Shawn Wildermuth

Understanding how to build an app using the full-stack of technologies of web development can be hard. In this course, we'll walk you completely through a complete application to see how everything works together.

[Resume Course](#)

**Course author**

**Shawn Wildermuth**

Shawn Wildermuth is a thirteen-time Microsoft MVP (ASP.NET/IIS) and is involved with Microsoft as an ASP.NET Insider, ClientDev Insider and Windows Phone Insider.

**Course info**

Level	Beginner
Rating	★★★★☆ (2003)
My rating	★★★★★
Duration	9h 21m
Updated	3 Nov 2015

[Table of contents](#) [Description](#) [Transcript](#) [Exercise files](#) [Discussion](#) [Learning Check](#) [Recommended](#)

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# This Module

## ASP.NET Core 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

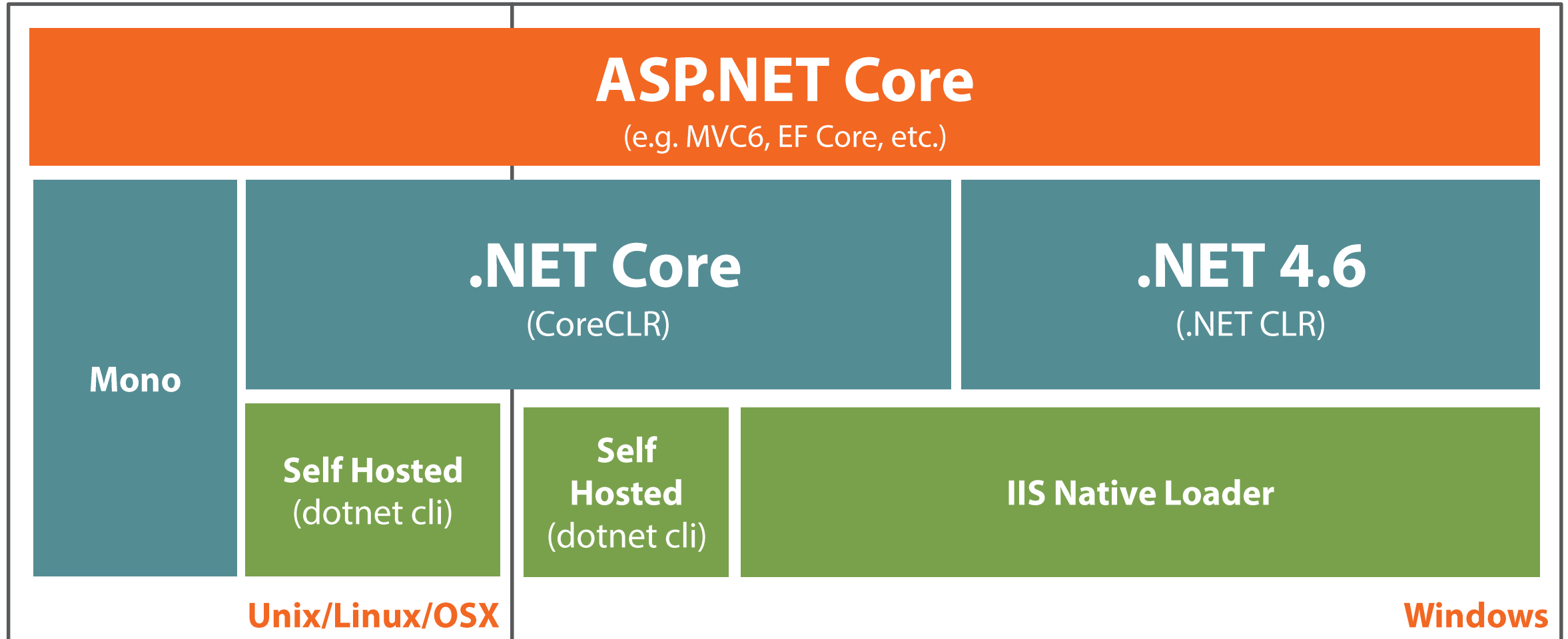
ASP.NET Core is a complete  
rethinking of the platform.



# What Is ASP.NET Core?

- 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 of ASP.NET Core.

# 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 Core



# 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 Core?

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

You have full support to go command-line or IDE

Open Source top-to-bottom