

# Overview



**Course overview**

**An introduction to ASP.NET Core**

**Getting your machine ready**

# Course Overview

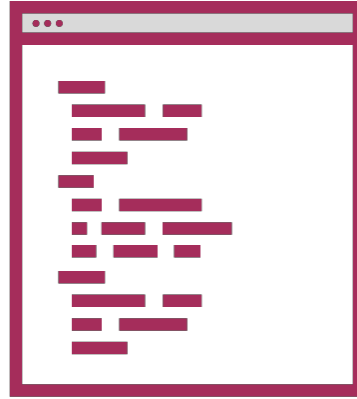
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The goal of this course is  
learning how to build a fully  
working web app with  
ASP.NET Core

# The Road to Success



File → New Project...



Write some code...



And then, a fully  
working site!

# What You'll Learn in This Course

**.NET Core and  
ASP.NET Core**

**MVC**

**New features**

**Entity Framework  
Core**

**Security**

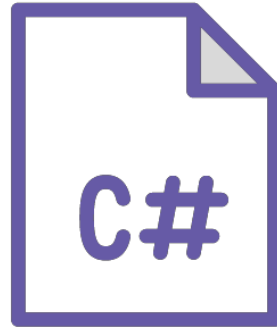
**Deployment**

This course is not trying to  
teach you every aspect in  
ASP.NET Core

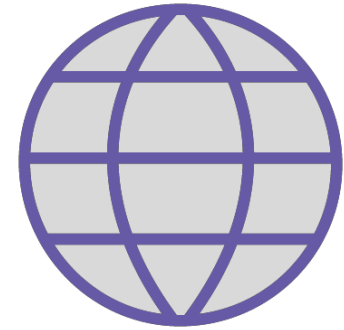
# What I Assume You Know



Basic HTML & CSS



C#



Affinity with web  
development

No ASP.NET MVC  
knowledge is required

*(although it can definitely help)*



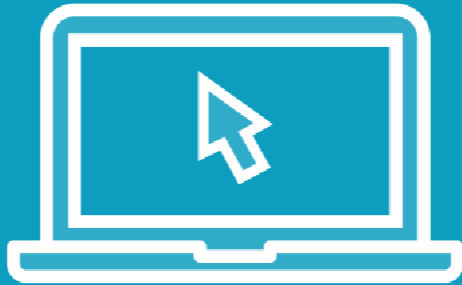
Existing ASP.NET MVC  
developers can use this  
course to learn what's new!



## Bethany's Pie Shop

- ASP.NET Core web store
- Different pages
- Cart functionality
- Security
- Deployed on Azure

# Demo



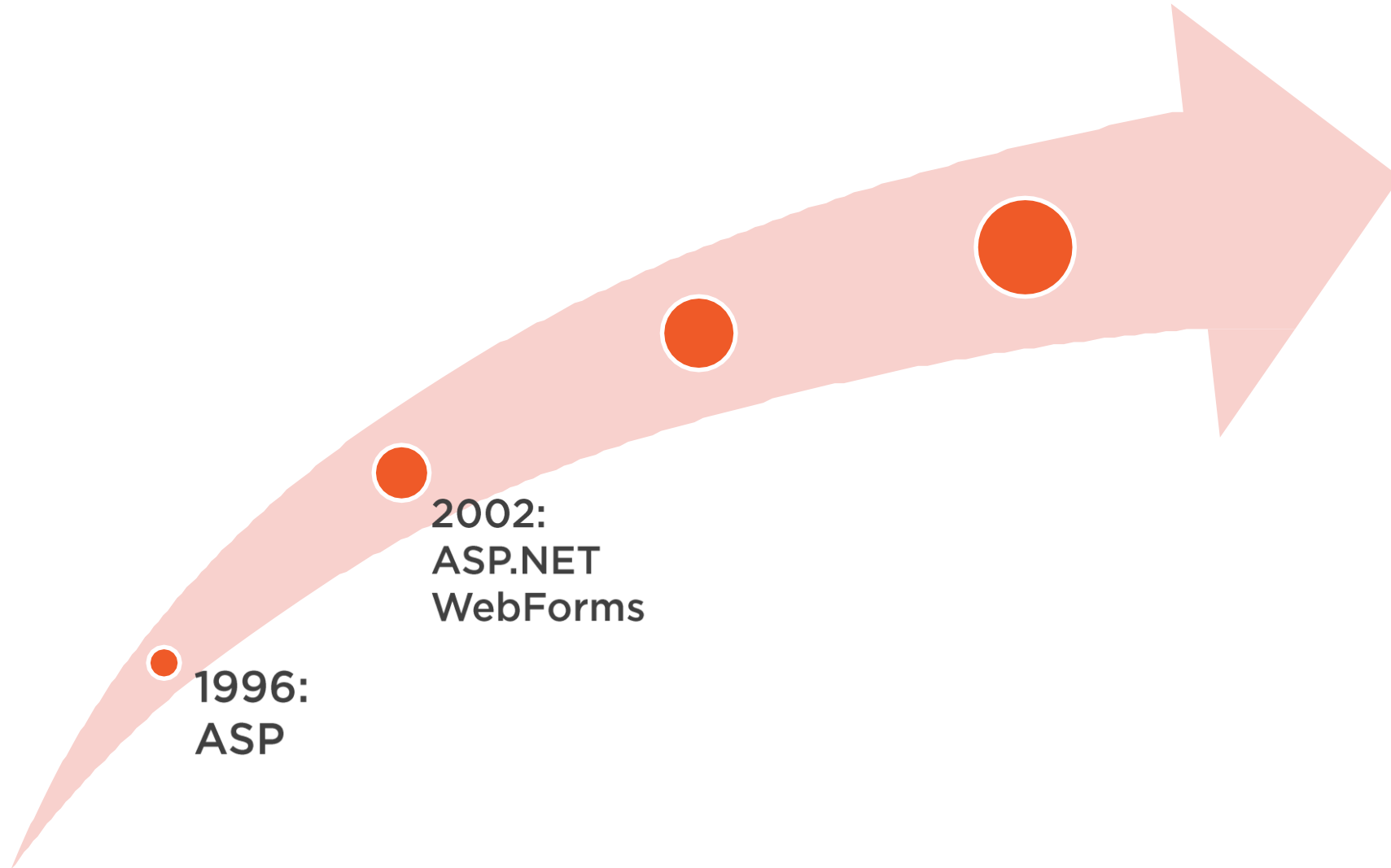
Taking a look at the finished version of  
Bethany's Pie Shop

Source code and starter projects  
can be downloaded from the  
Course Downloads

# An Introduction to ASP.NET Core

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# The Evolution of ASP.NET



# Problems with WebForms

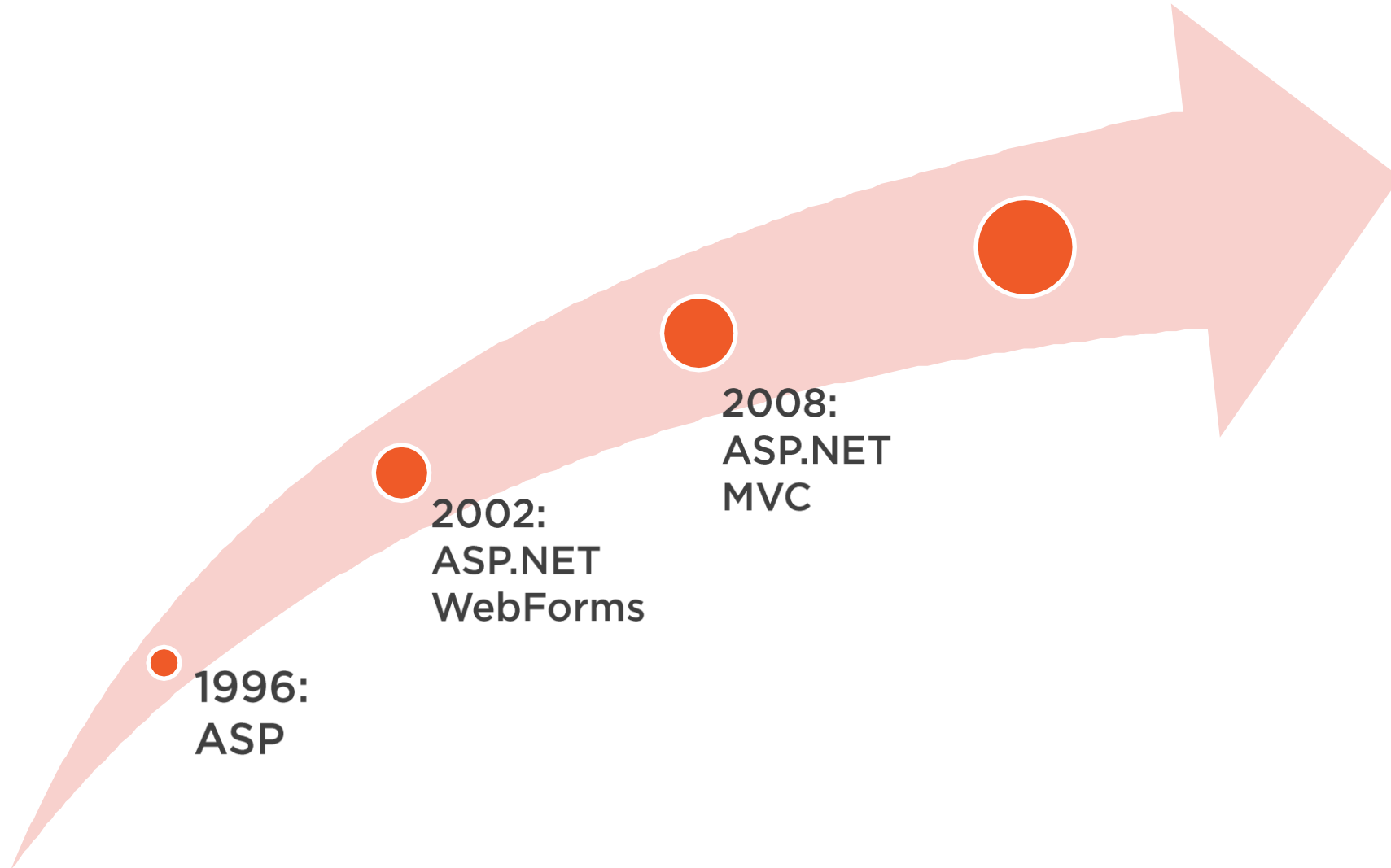
ViewState

Control over HTML

Hard to test

Page life cycle

# The Evolution of ASP.NET





# Problems with the Original ASP.NET MVC

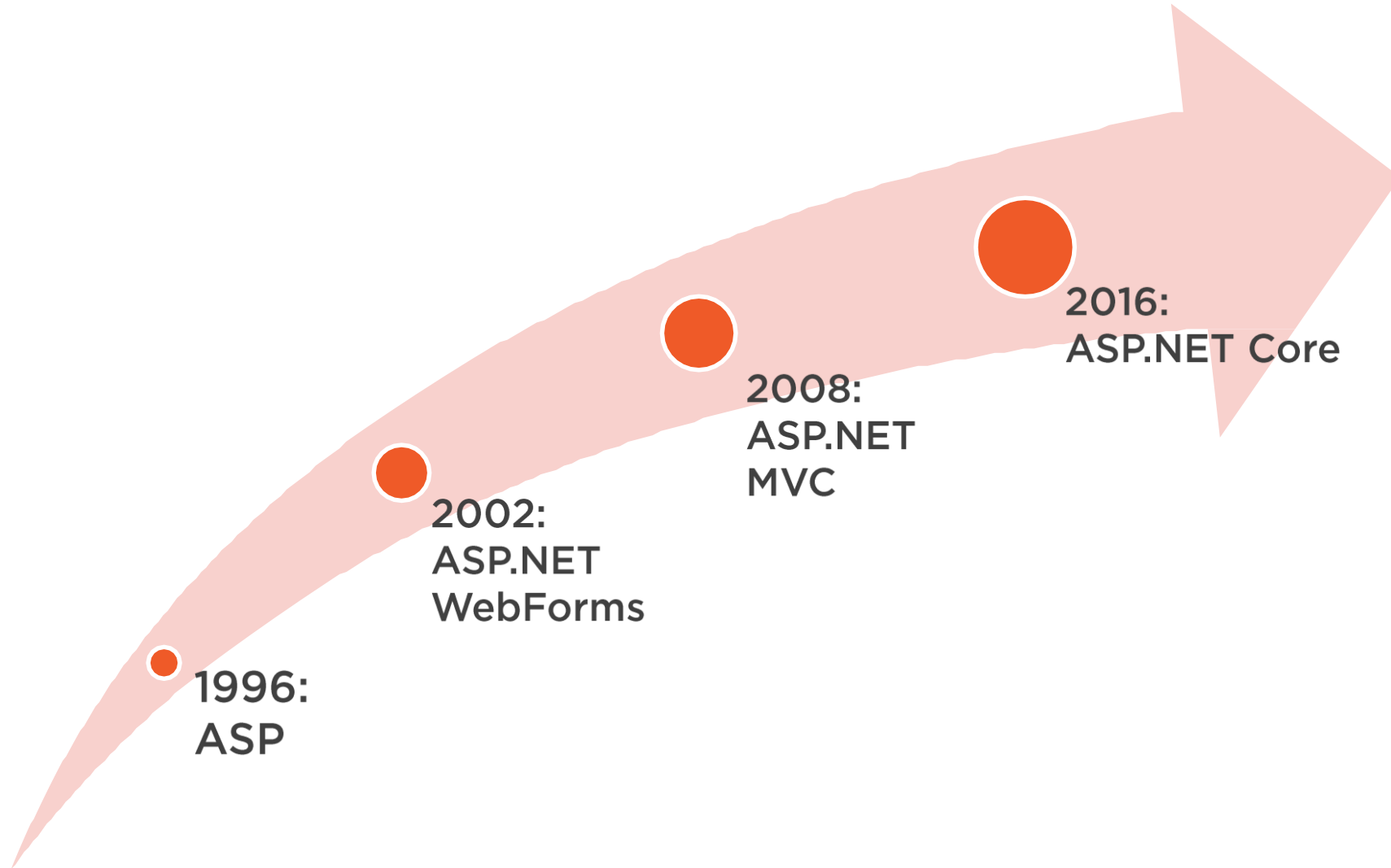
Dependency on IIS  
(System.Web)

Dependency on .NET  
framework

Web evolves faster than .NET

Not created with cloud in  
mind

# The Evolution of ASP.NET



# Hello ASP.NET Core

Built on .NET Core

Cross-platform

Not tied to .NET  
framework

# Improvements of ASP.NET Core

Unification between MVC and  
Web API

Dependency Injection

Modular HTTP request  
pipeline

Based on NuGet

# Improvements of ASP.NET Core

Cloud-ready

IIS or self-host

Open source

Cross-platform

# What's in the Box Now?



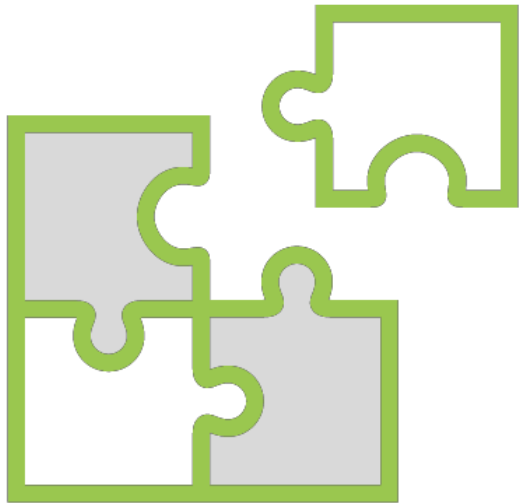
**Console applications**

**ASP.NET Core MVC**

**ASP.NET Core Web API**

**.NET Standard Libraries**

# The MVC in ASP.NET Core MVC



## Model-View-Controller

- Architectural pattern
- Separation of concerns
- Promotes testability and maintainability

# Getting Your Machine Ready

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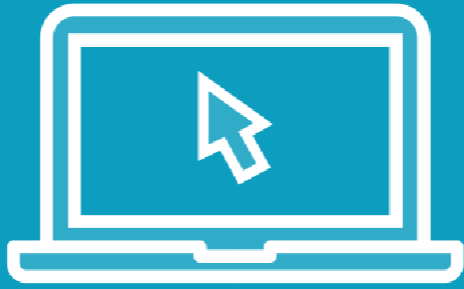
# Alternatives (Windows, Mac & Linux)

**Visual Studio Code with C# plugin**

**OmniSharp-ready editor**

- Atom
- Sublime
- Vim
- ...

# Demo



Getting up and running for this course

Course will be updated later  
when Visual Studio tooling  
is updated

# Summary



**ASP.NET Core is the next big thing**

**Production-ready**