Building Your First ASP.NET Core Web Application

INTRODUCTION

Gill Cleeren
ARCHITECT

@gillcleeren   www.snowball.be

Overview

Course overview

An introduction to ASP.NET Core

Getting your machine ready
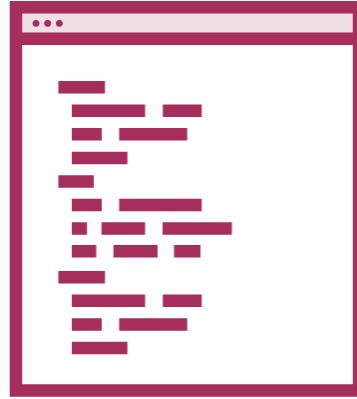
Course Overview

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...

Quite 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

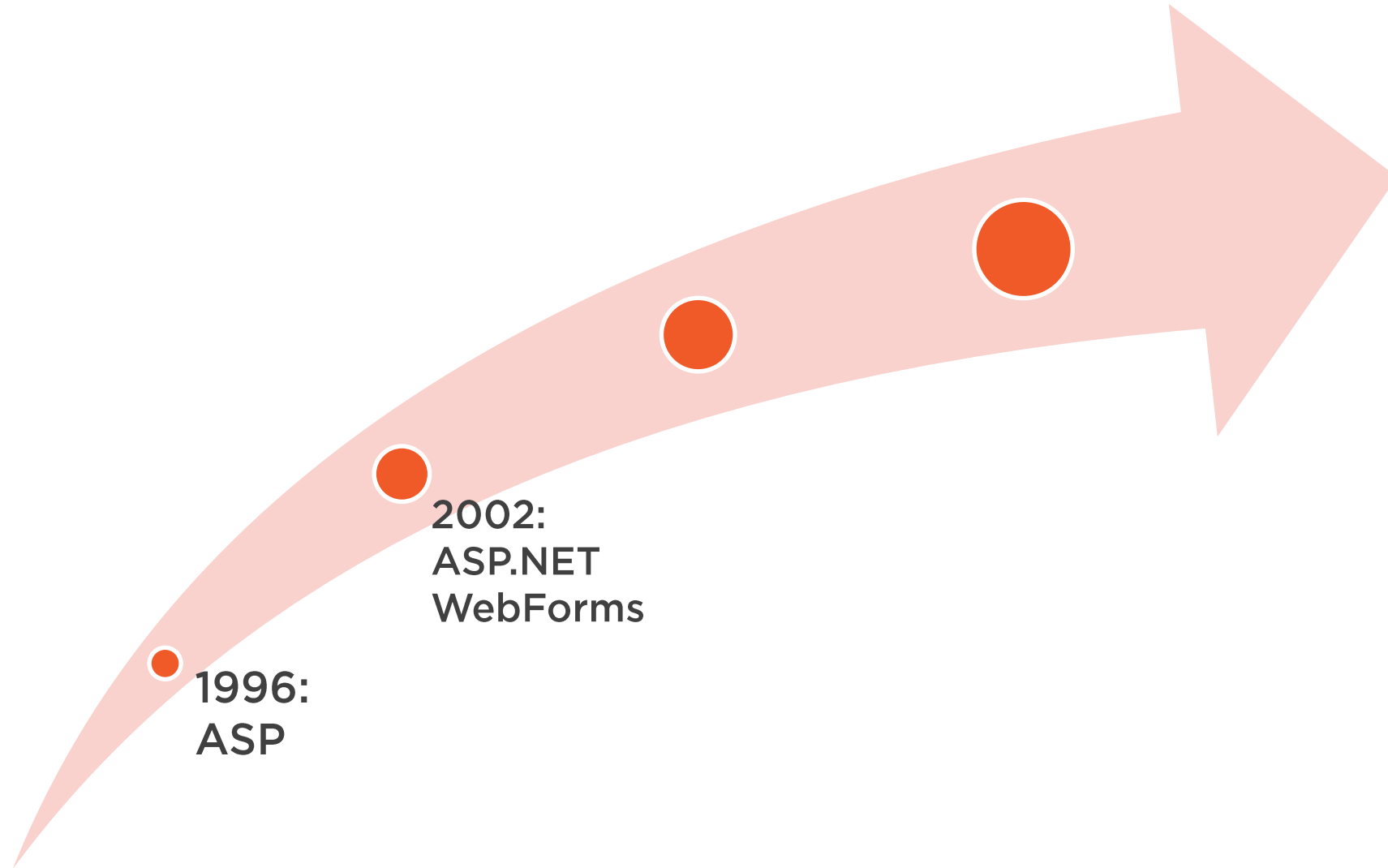Taking a look at the finished version of Bethany's Pie Shop

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

An Introduction to ASP.NET Core

The Evolution of ASP.NET

1996:
ASP

2002:
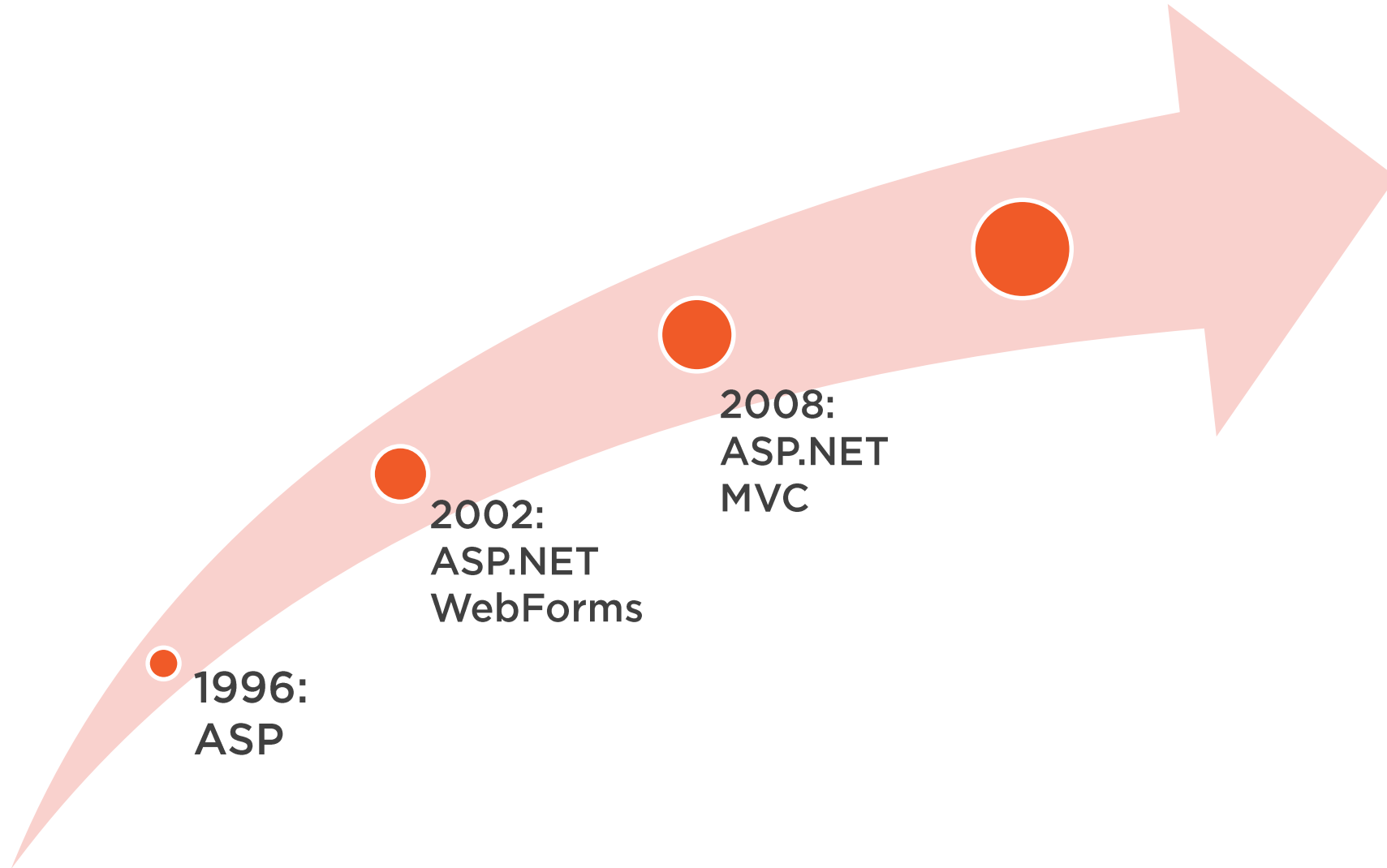**ASP.NET**
WebForms

Problems with WebForms

ViewState

Control over HTML

Hard to test

Page life cycle

The Evolution of ASP.NET

2008:
ASP.NET
MVC

2002:
ASP.NET
WebForms

1996:
ASP

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

1996:
ASP

2002:
ASP.NET
WebForms

2008:
ASP.NET
MVC

2016:
ASP.NET Core
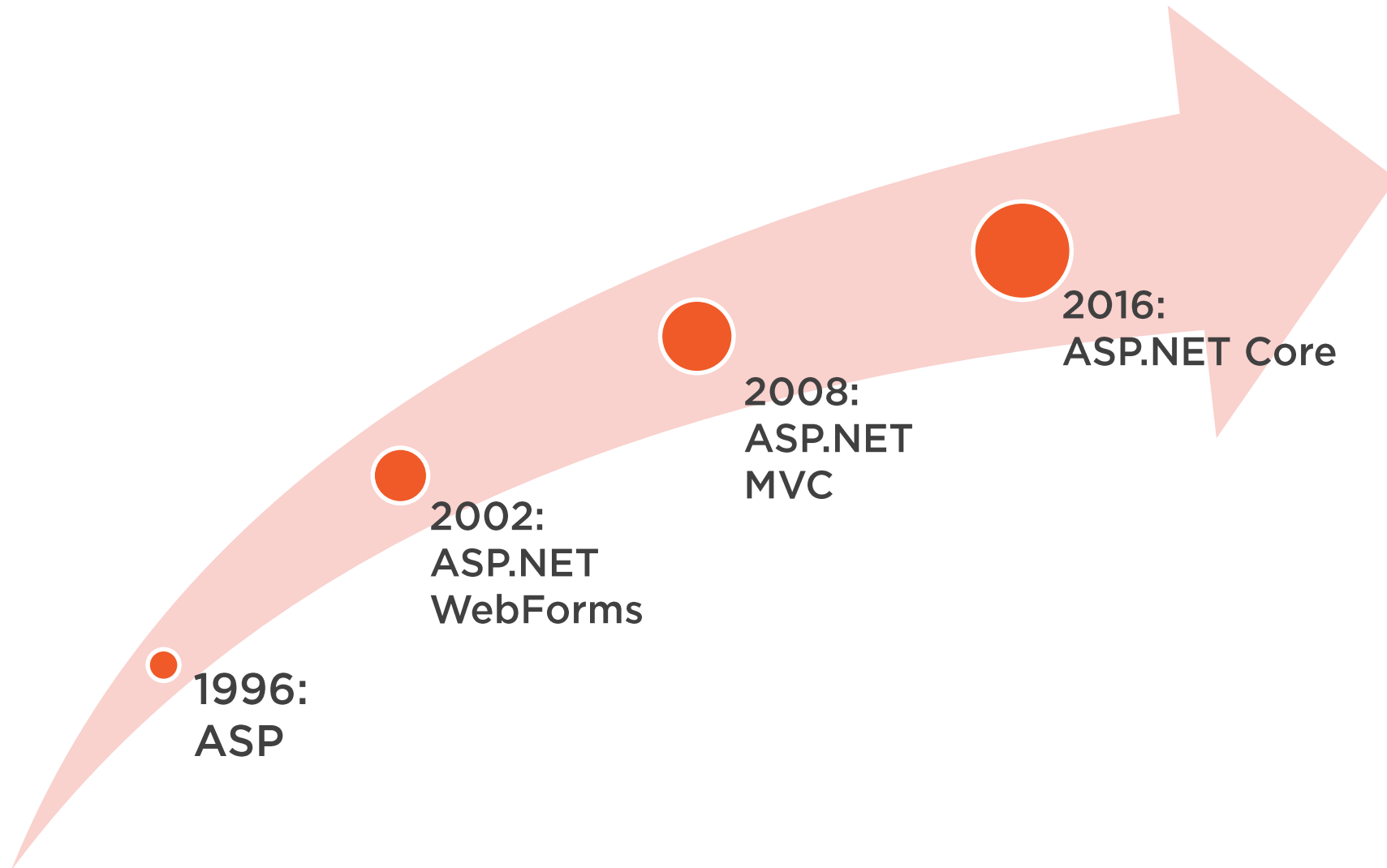
Hello ASP.NET Core

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?
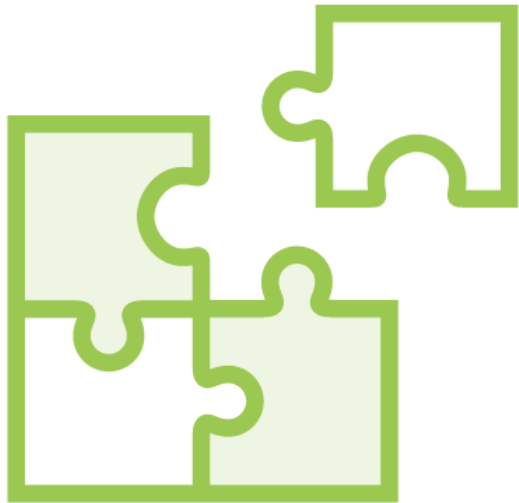
Console applications

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

Getting Started on Windows

Visual Studio 2015 Update 3

.NET Core Tooling

A browser

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