

Blazor: Getting Started

BUILDING YOUR FIRST BLAZOR APPLICATION



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Overview



What will you learn from this course?

Hello Blazor

The different hosting models of Blazor

Understanding File → New Project

Creating a first Blazor app

Debugging a Blazor app



What Will You Learn from This Course?



This course will teach you how to
build your first Blazor application.



How We Will Approach This Course



File → New Project...



Write some code...



And then, a full Blazor application!



What I Assume You Know



HTML and CSS



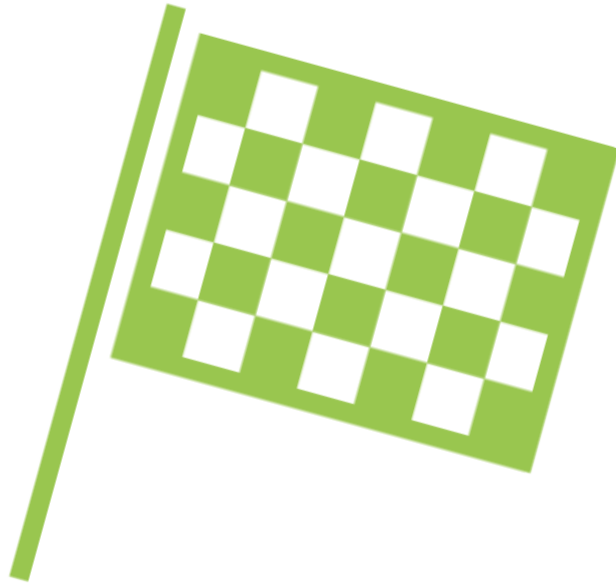
C#



Some Razor is recommended



What You Need to Have Installed



Visual Studio 2019 (16.6 or higher)

- <https://visualstudio.microsoft.com/vs/>

.NET Core 3.1 SDK

- <https://dotnet.microsoft.com/download/dotnet-core/3.1>

.NET 5 compatible

A browser





The Scenario: Bethany's Pie Shop HRM

- List of employees
- Detail page
- Add new employee
- Navigation




Demo



Taking a look at the finished application



Blazor: Getting Started

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used for web

Advanced

14. C# for ASP.NET

15. Blazor WebAssembly

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Hello Blazor



Blazor is a framework
to build interactive web UIs
using C# and HTML.



Hello Blazor



Based on WebAssembly or run on server



No plugin, based on web standards



Integrate with JavaScript



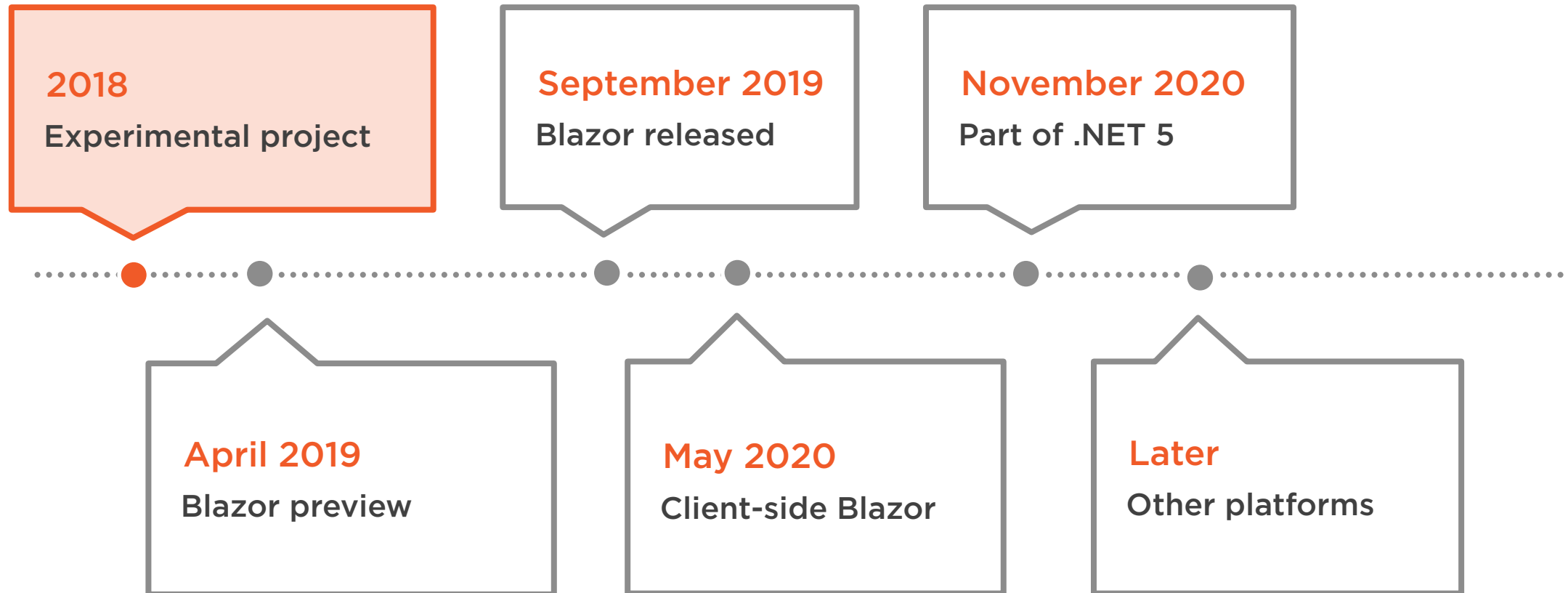
Benefits of Visual Studio and .NET including performance and libraries



Leverage your C# skills
to build interactive web applications.



Blazor Roadmap





Demos are built using .NET Core 3.1

All code is compatible with .NET 5


.NET 5 module at the end of this course



Blazor: The Big Picture

by Barry Luijbregts

Blazor is an incredible framework that you can use to develop rich and interactive client-side web UIs with C# instead of JavaScript. In this course, you'll learn what Blazor is and why you should use it.

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<https://www.pluralsight.com/library/courses/blazor-big-picture>



The Different Hosting Models of Blazor



Different Flavors of Blazor

Client-side

Server-side



Client-side Blazor



Blazor app
WebAssembly





Runs on all modern browsers

No .NET required on server

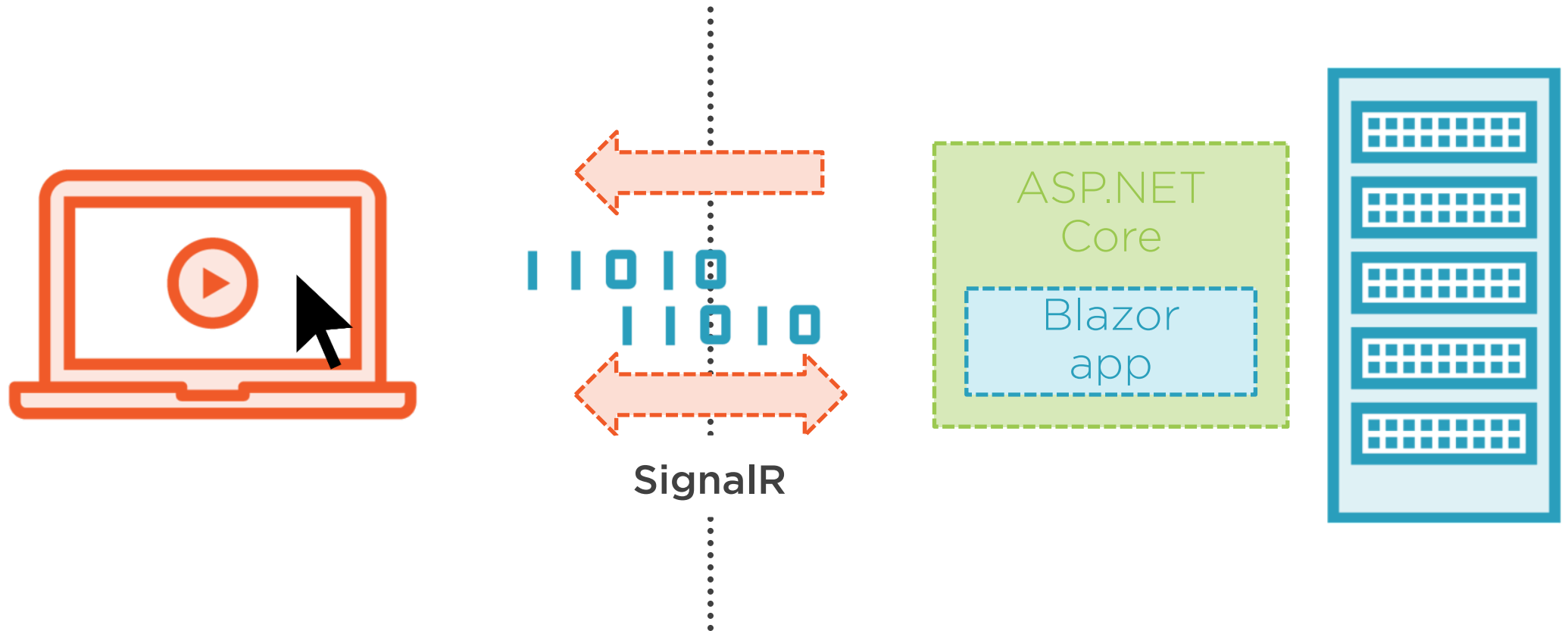
SPA user experience

Older browsers might not be supported

Initial app download is larger

Debugging support

Server-side Blazor





Small download

Works with all server-side APIs

Full debugging support

Blazor apps in non-supported browsers

No offline support

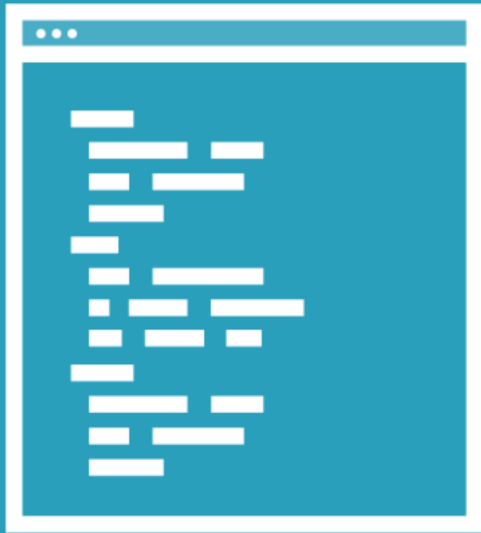
Network delay

Scalability, although not a big problem



We'll use client-side Blazor and convert to server-side later.





Let's now dive into
Blazor code!



Understanding File → New Project



Visual Studio Templates

**Client-side
WebAssembly**
Standalone

**Client-side
WebAssembly**
ASP.NET Core Hosted

Server-side

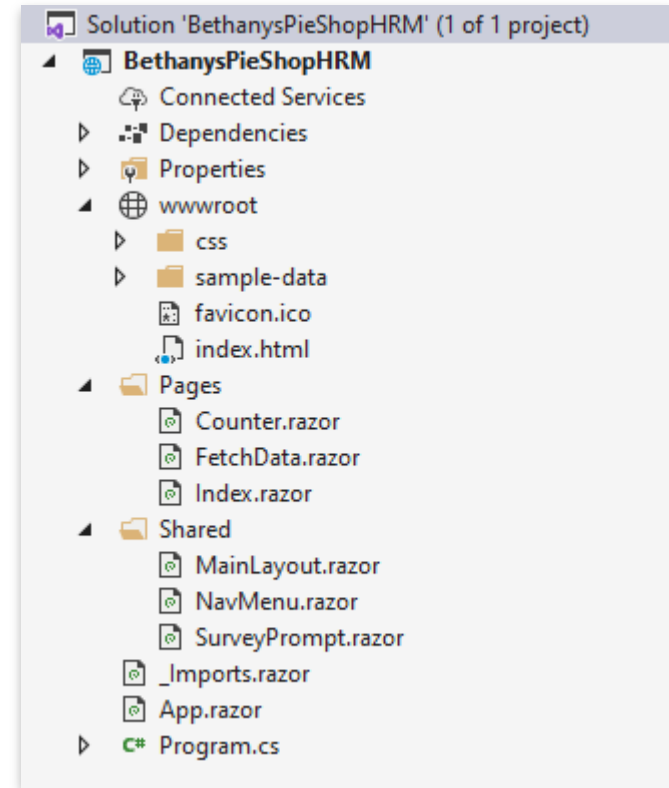


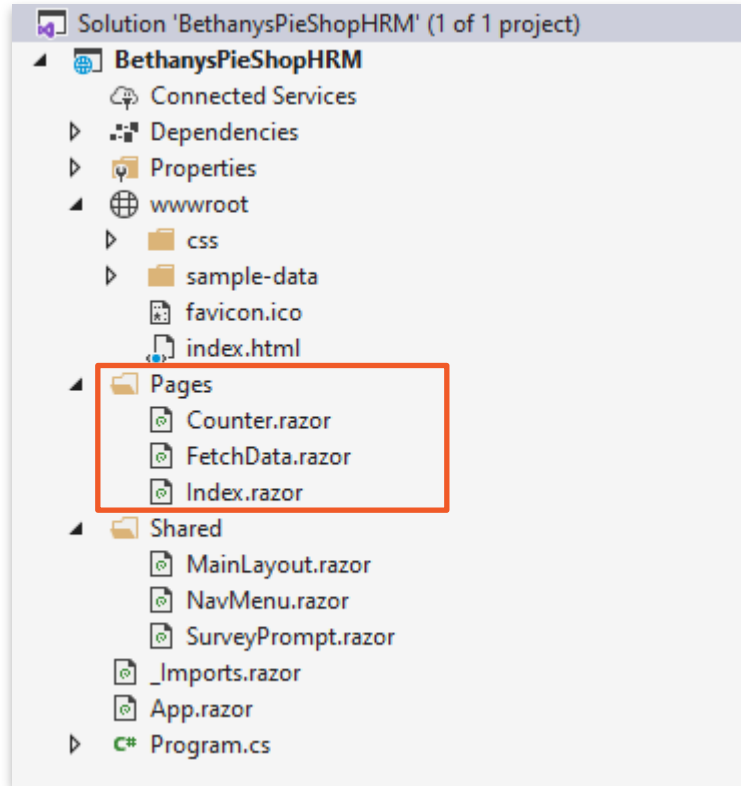
New Project

C# and .razor files

Structure similar to ASP.NET Core project

- Program.cs





***.razor files**

Components are building blocks

Name must start with uppercase

Class generated upon compilation



Looking at a the First Component

```
@page "/counter"
<h1>Counter</h1>
<p>Current count: @currentCount</p>
<button class="btn btn-primary" @onclick="IncrementCount">Click me</button>
@code {
    int currentCount = 0;

    void IncrementCount()
    {
        currentCount++;
    }
}
```



```
@page "/"
```

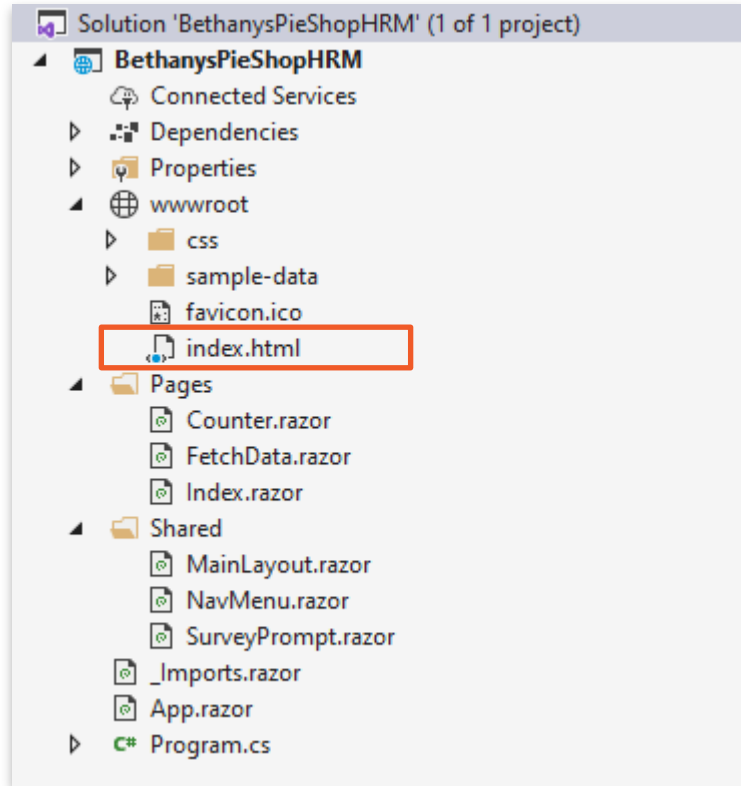
```
<h1>Hello, world!</h1>
```

```
Welcome to your new app.
```

```
<Counter />
```

Using a Component





Hosting page

Plain HTML

Trigger loading of your Blazor app

- blazor.webassembly.js



Demo



Creating a new project

Looking at the created files



New to ASP.NET Core?
Take a look at the
ASP.NET Core Learning Path!



Creating Your First Blazor App



Using Code

Mixed approach using @code

“Code behind” using partial



Mixed Approach

```
@page "/counter"  
<h1>Counter</h1>  
<p>Current count: @currentCount</p>  
<button class="btn btn-primary" @onclick="IncrementCount">Click me</button>
```

```
@code {  
    int currentCount = 0;  
  
    void IncrementCount()  
    {  
        currentCount++;  
    }  
}
```



```
public partial class EmployeeOverview  
{  
  
}
```

Using Partial Classes



Demo



Creating your first app



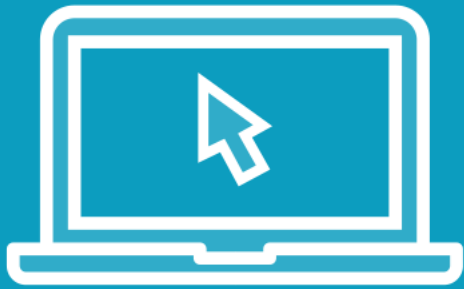
Demo



Adding your own layout



Demo



Debugging a Blazor app in Visual Studio



Summary



Blazor allows creating rich experiences in the browser using C# and HTML

Server-side and client-side

Components are a building block





Up next:
Working with data

