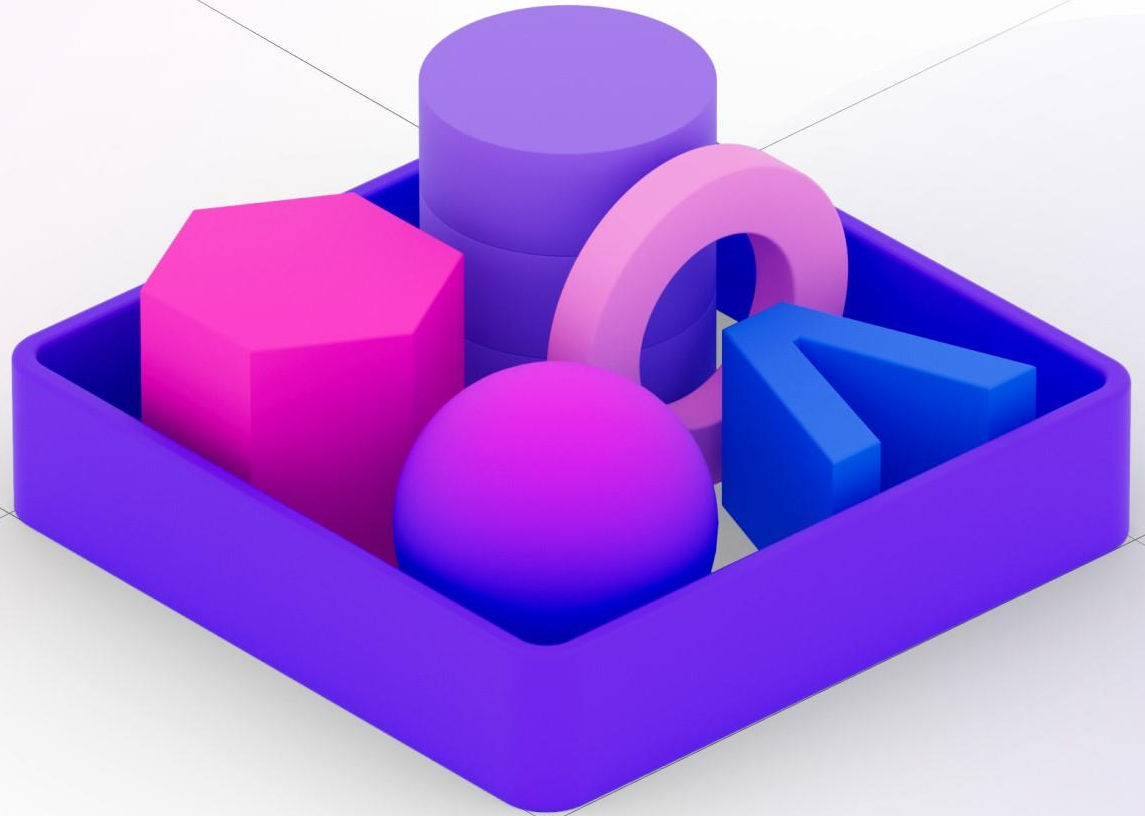


.NET Conf



Bye, ASP.NET Web Forms! Welcome, Blazor!

Justin Yoo | Microsoft

 @justinchronicle

 @justinyoo



.NET Conf 2023

Bye ASP.NET WebForm, Welcome Blazor:
Transform your ASP.NET WebForm
Chatbot in no time, and beyond!



Justin
Yoo



aka.ms/dotnetconf23/justinyoo

Demo – ASP.NET Web Forms

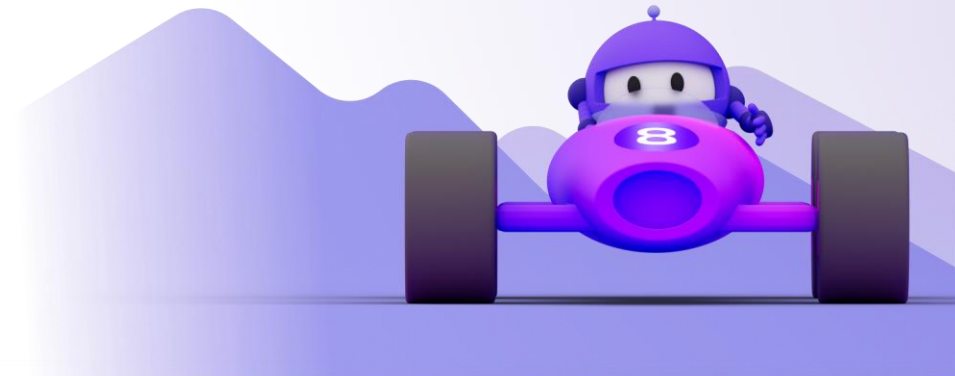
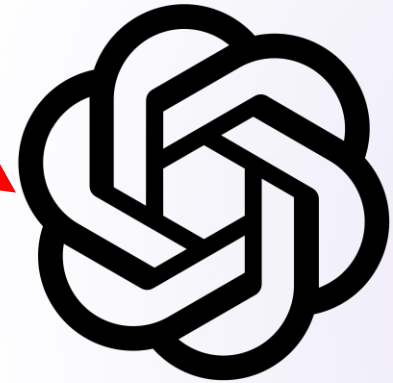
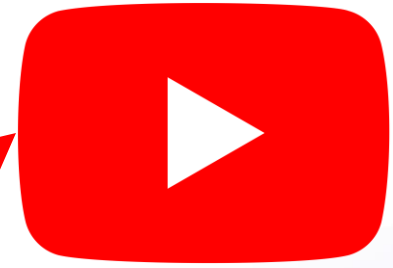




front-end



back-end



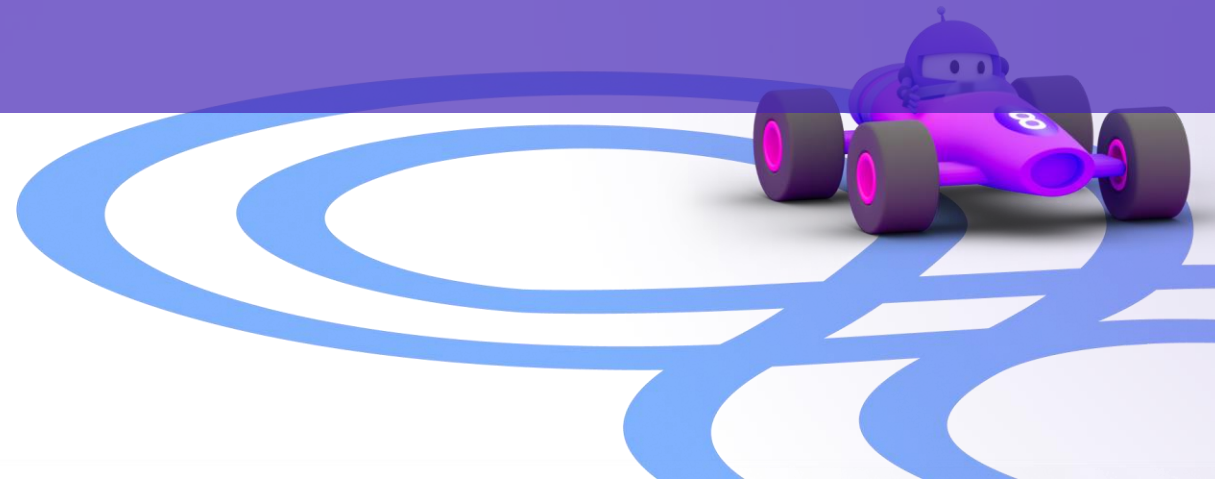
Why staying in ASP.NET Web Forms?



Mature enough



Mature enough
Rich controls



Mature enough
Rich controls

Similar developer experience as WinForm



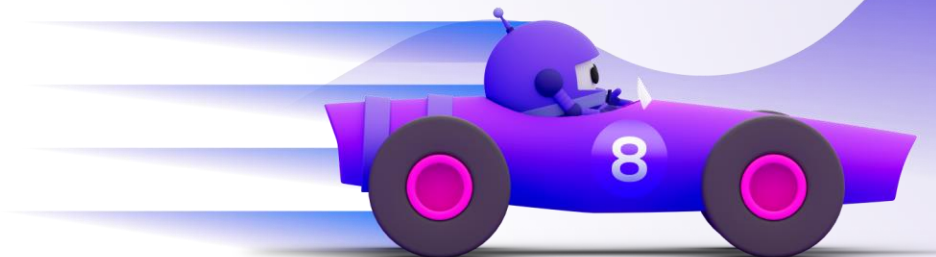
Why moving away from ASP.NET Web Forms?



Windows only



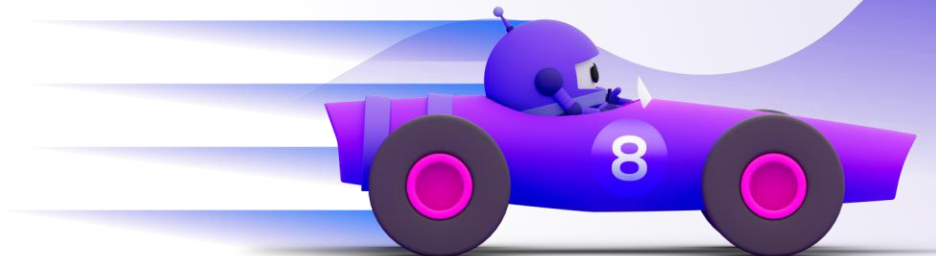
Windows only
No .NET 8 support



Windows only
No .NET 8 support
No built-in async event-handling



Windows only
No .NET 8 support
No built-in async event-handling
No built-in dependency management



Maintenance overhead



Available alternatives?



ASP.NET MVC



ASP.NET MVC



Angular, React, Vue, etc



Angular, React, Vue, etc



Blazor



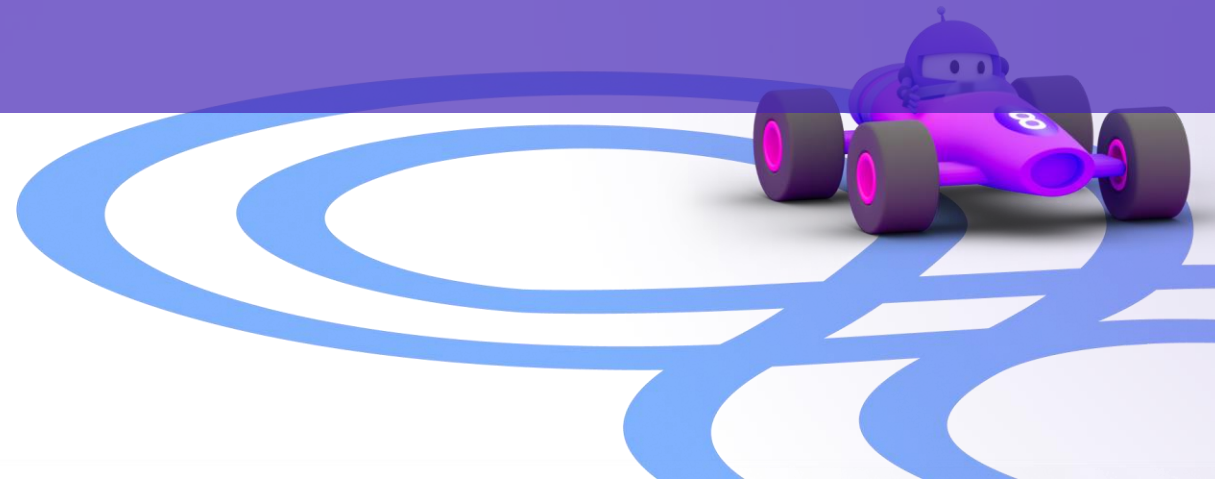
Blazor



Why migrate to Blazor?



Similar component model



Web Forms

`.aspx` page control
`.ascx` user control

Blazor

`.razor` component

Similar component model
Similar page lifecycle management



Web Forms

Page_Init
Page_Load

Page_Render

Blazor

SetParameters{Async}
OnInitialized{Async}
OnParametersSet{Async}
OnAfterRender{Async}

Improved data binding



Web Forms

```
<asp:TextBox runat="server" ID="MyTextBox" ... />
```

Blazor

```
<input type="text" ... @bind="MyText" />
```

Improved data binding
Improved event handling



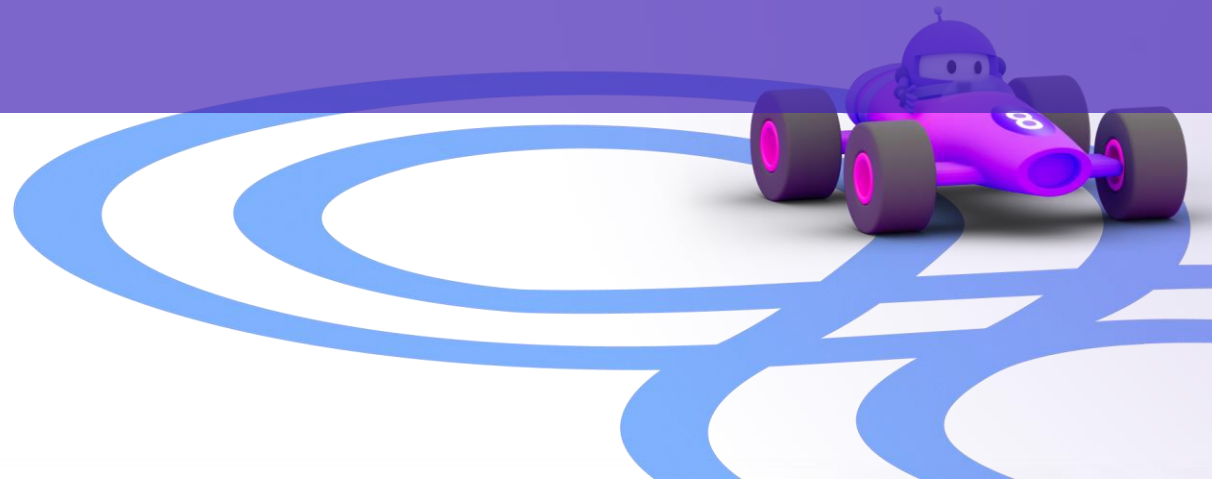
Web Forms

```
<asp:Button ... OnClick="Button_Click" />
```

Blazor

```
<button ... @onclick="ButtonClickedAsync"></button>
```

Improved data binding
Improved event handling
C# for both front-end / back-end



Blazor

```
<button ... @onclick="ButtonClickedAsync"></button>
```

```
@code {  
    protected async Task ButtonClickedAsync()  
    {  
        ...  
    }  
}
```

Improved data binding
Improved event handling
C# for both front-end / back-end
JavaScript interoperability



Blazor

```
@inject IJSRuntime JSR
```

```
<button ... @onclick="ButtonClickedAsync"></button>
```

```
@code {  
    protected async Task ButtonClickedAsync()  
    {  
        await JSR.InvokeVoidAsync("MyJSFunction");  
    }  
}
```

How to migrate to Blazor?



Move business logic to class libraries



Move business logic to class libraries
Choose Blazor hosting model

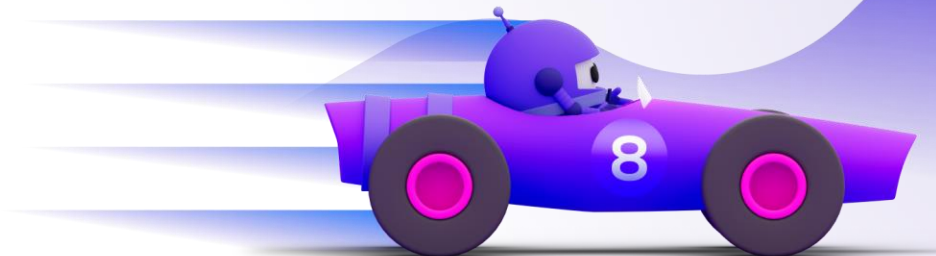


Reference class libraries



Reference class libraries

Migrate static files – HTML, JS, CSS, images



Reference class libraries
Migrate static files – HTML, JS, CSS, images
Migrate Web.config to appsettings.json

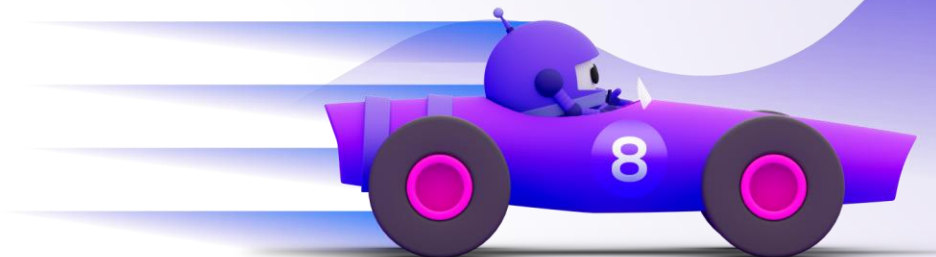


Reference class libraries

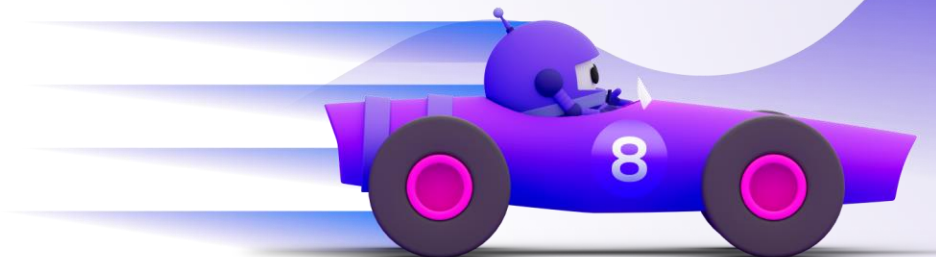
Migrate static files – HTML, JS, CSS, images

Migrate Web.config to appsettings.json

Migrate Global.asax to Program.cs



Rewrite .aspx/.ascx to .razor



Rewrite .aspx/.ascx to .razor

Data binding



Rewrite .aspx/.ascx to .razor
Data binding
Event handling





BlazorWebFormsComponents

Home

Editor Controls

AdRotator

Button

HiddenField

HyperLink

Image

ImageButton

Label

LinkButton

Literal

Data Controls

Validation Controls

Navigation Controls

Utility Features

Migration

Home

About

A collection of Blazor components that emulate the web forms controls.

Purpose

These components are intended for *green-field* application developers.

<https://aka.ms/blazor-webforms-components>

This is intended for an application that already exists and would like to be updated to the latest version of Blazor so that you can continue to use your support opportunities as well as consider the possibility of using alternate renderings and even running within WebAssembly.

This is **NOT** intended to be used for new applications, and you will find that some of the rendering delivered by these controls is considered "bad practice" by 2020 web standards. This is by design in order to ensure compatibility with the original controls delivered with ASP.NET Web Forms.

Contents

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Purpose

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Demo – Blazor Web App

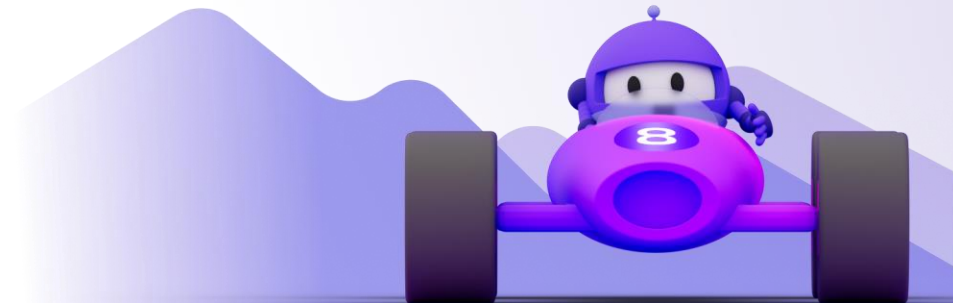
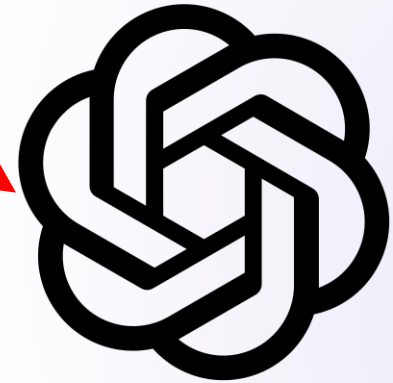
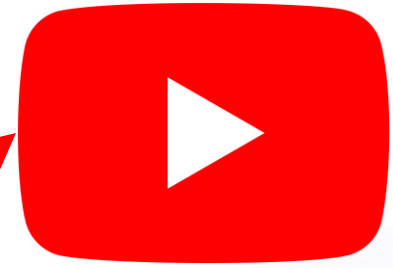


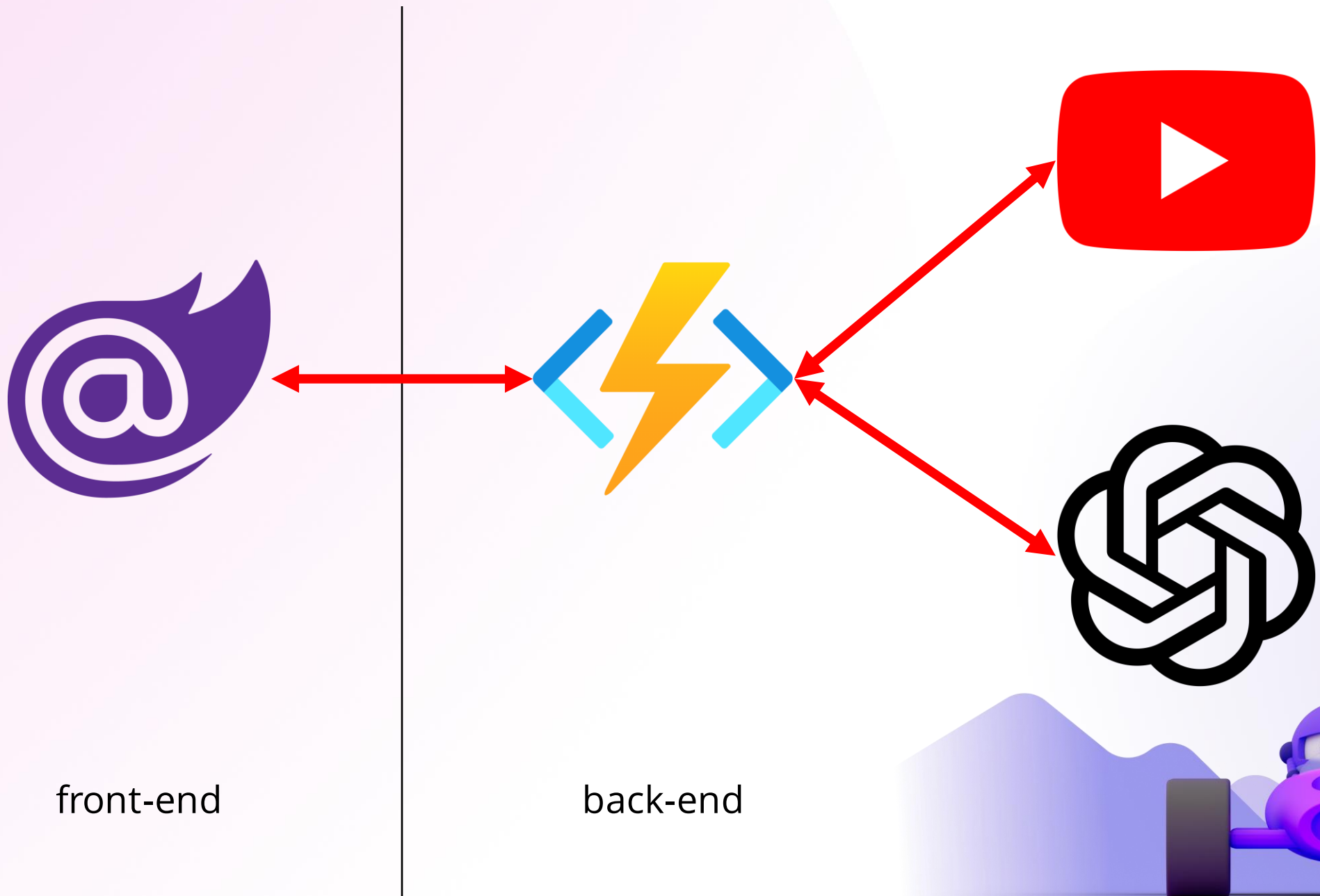


front-end



back-end





JavaScript Interop



Calling JavaScript functions from C#

Calling C# methods from JavaScript



To integrate existing JS UI components



Demo – JavaScript Interop



Summary



Why migrate ASP.NET Web Forms to Blazor

The background features abstract geometric shapes in blue and orange. In the top right, there is a blue semi-circle. Below it, a blue oval and a blue rectangle are visible. In the bottom right, there is a large blue circle and a blue square. The text is centered on a blue horizontal band.

Why migrate ASP.NET Web Forms to Blazor

Benefits of migration to Blazor

The slide features a solid blue horizontal band across the middle. The background is white with abstract geometric shapes in blue and orange. In the top right, there is an orange semi-circle. On the right side, there are several blue shapes: a large 'V' or chevron, a rounded rectangle, and a square with a diagonal line. In the bottom right, there is a large orange circle and a blue square with a diagonal line.

Why migrate ASP.NET Web Forms to Blazor

Benefits of migration to Blazor

Migration process

The background features a light purple gradient. A solid, medium-purple horizontal bar spans the width of the image, serving as a backdrop for the text. In the top right corner, there is a small, semi-circular pink shape. On the right side, there are several overlapping, semi-transparent blue and purple geometric shapes, including a large 'V' shape and a square-like outline. In the bottom right corner, there is a solid pink circle and a blue square outline.

Why migrate ASP.NET Web Forms to Blazor

Benefits of migration to Blazor

Migration process

JS Interop for existing JS library integration

Resources

Download .NET 8

aka.ms/get-dotnet-8

YouTube Summariser

aka.ms/youtube-summariser

Blazor WebForms Components

aka.ms/blazor-webforms-components

Fluent UI

aka.ms/fluentui

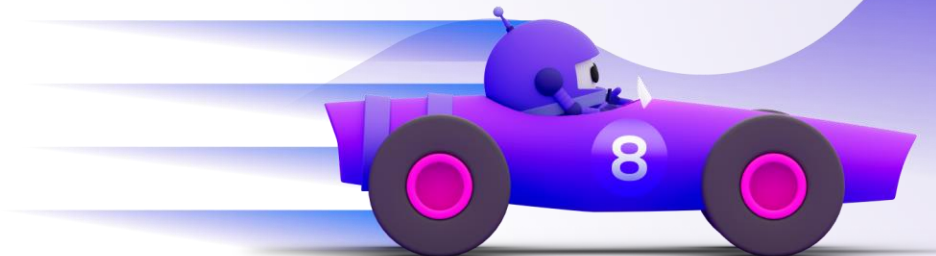
Blazor Fluent UI

aka.ms/fluentui/blazor



Download .NET 8

<https://aka.ms/get-dotnet-8>



.NET Conf 2023 @ Blazor Korea



Thank you!

