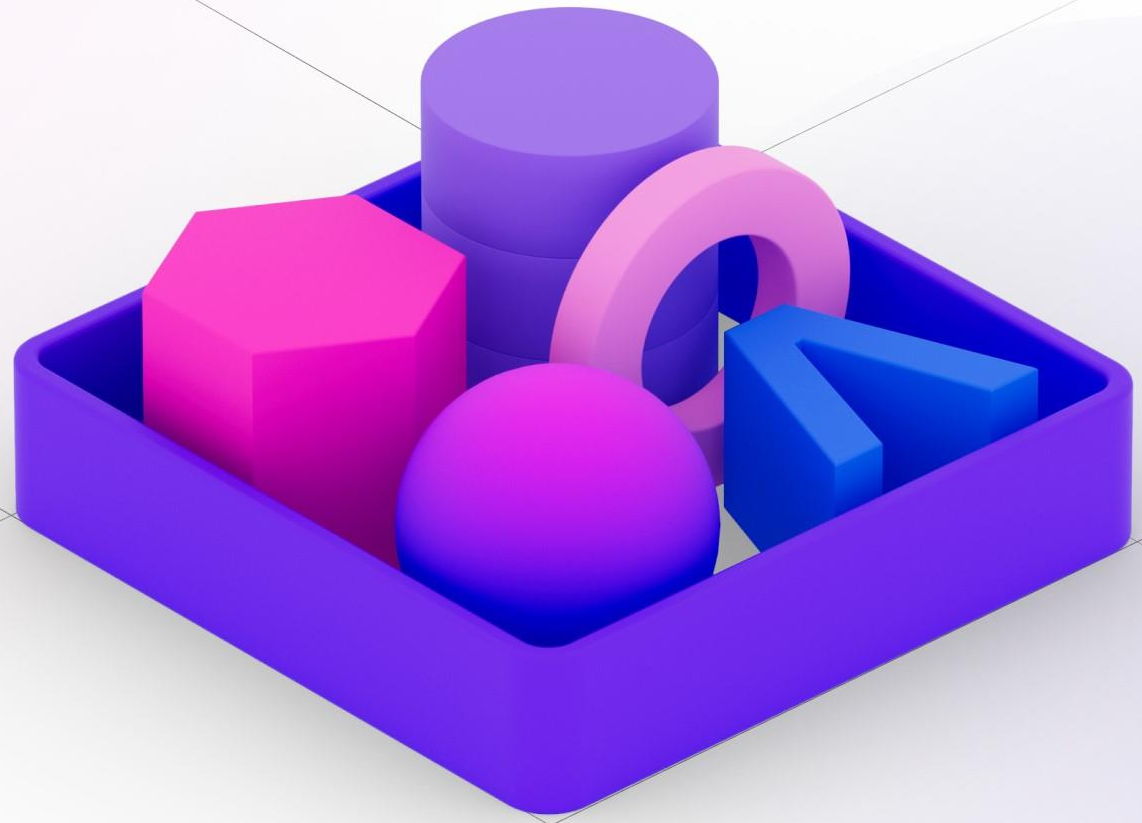
.NET Conf



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!

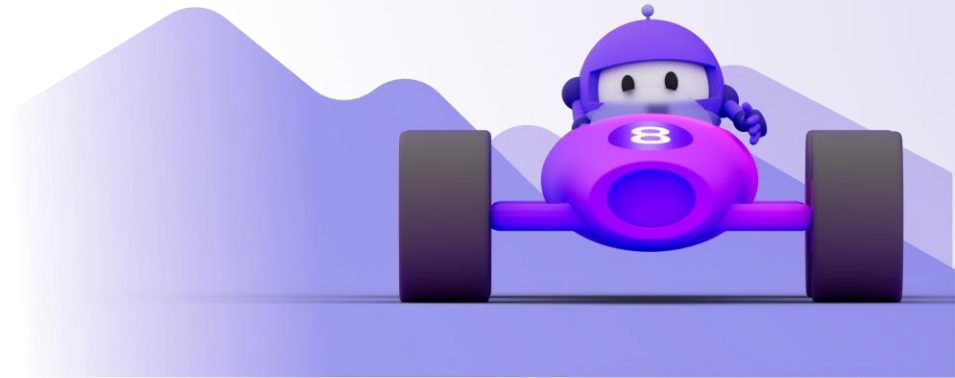
Justin Yoo

aka.ms/dotnetconf23/justinyoo

Demo – ASP.NET Web Forms

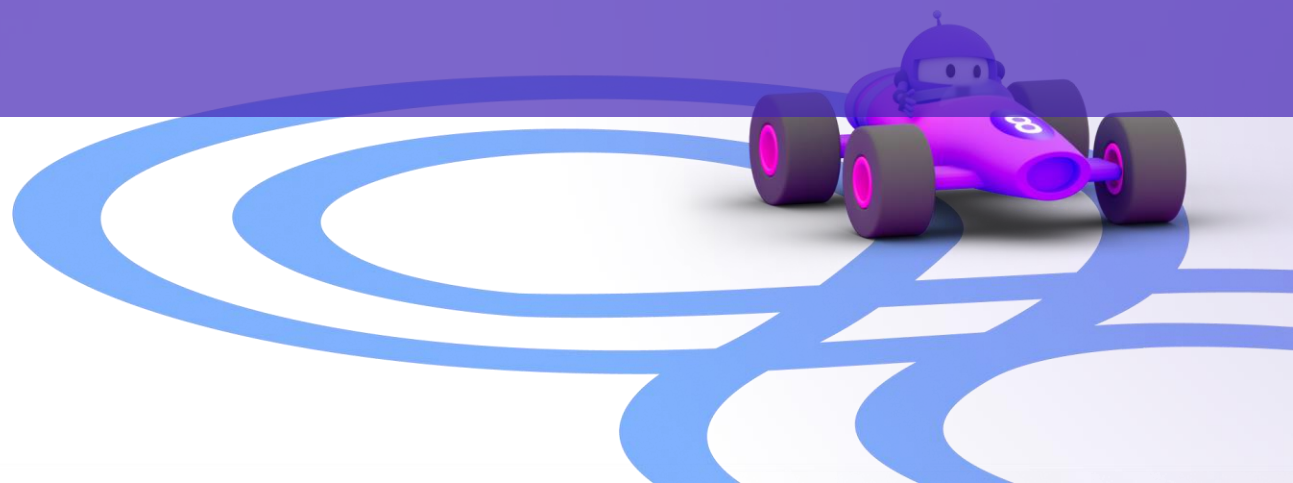
front-end

back-end



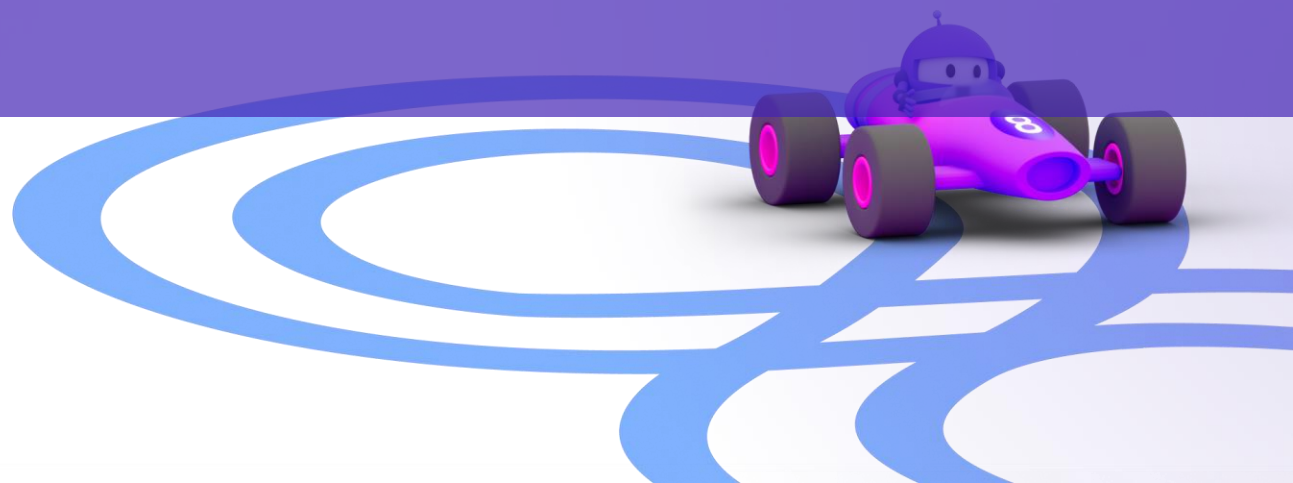
Why staying in ASP.NET Web Forms?

Mature enough



Mature enough

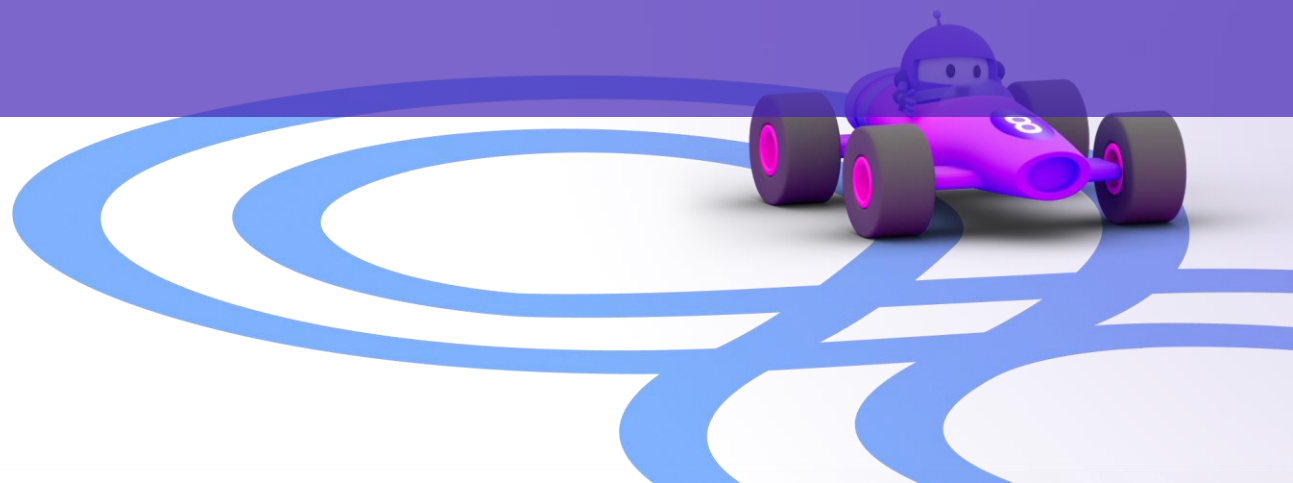
Rich controls



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

Windows c

Na

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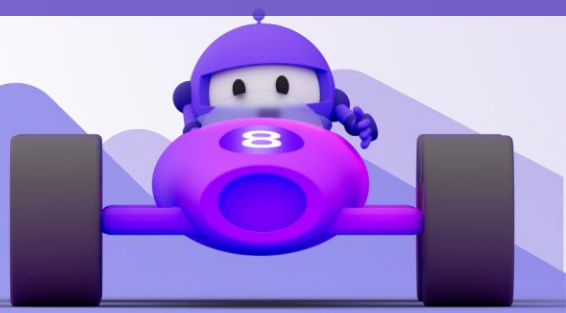
ndency management

Maintenance overhead

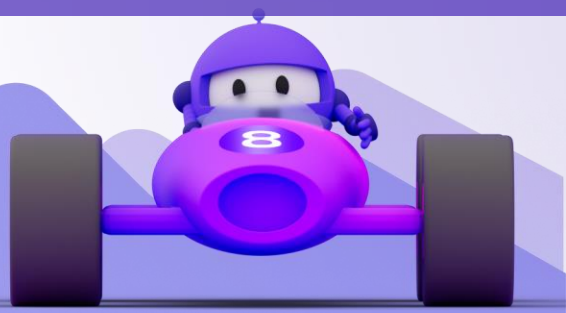
Available alternatives?

ASP.NET MVC

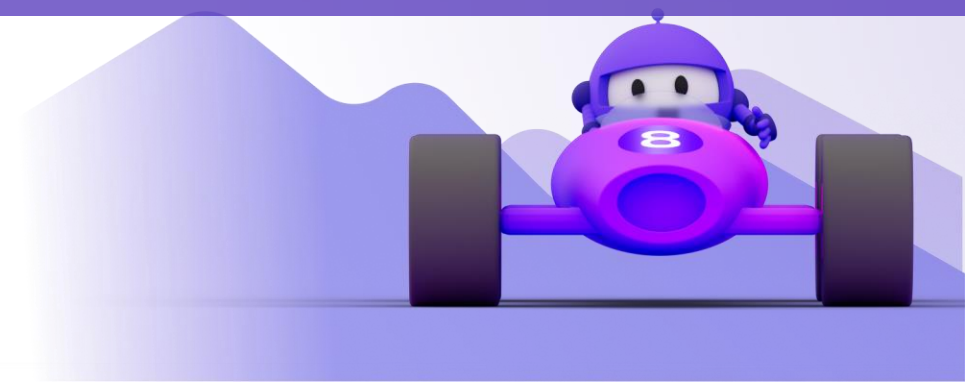


ASP.NET MVC

🤔

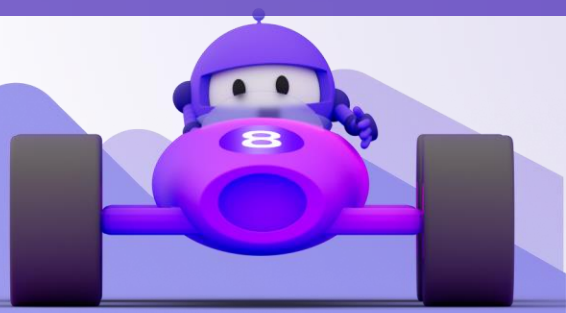


Angular, React, Vue, etc

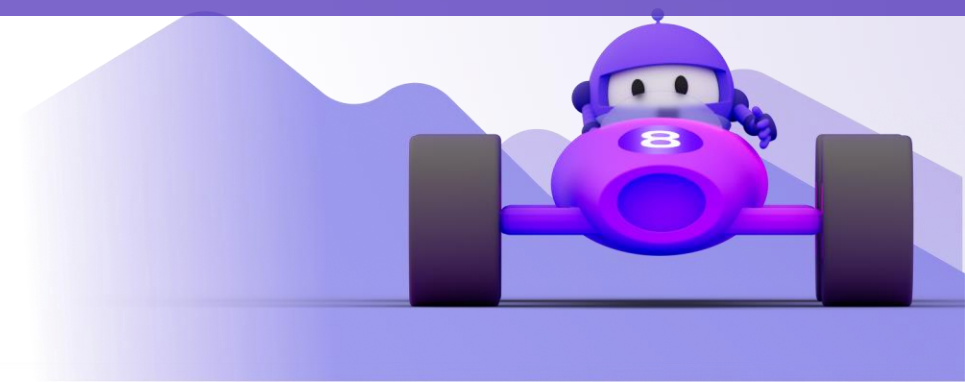


Angular, React, Vue, etc

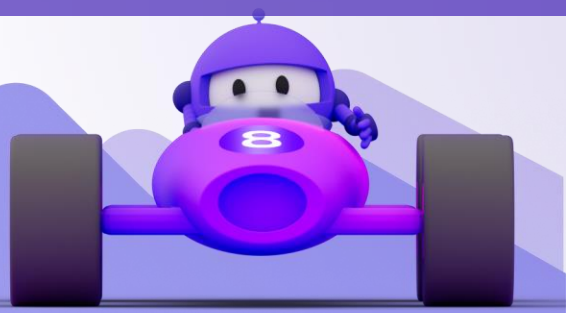
🤔



Blazor

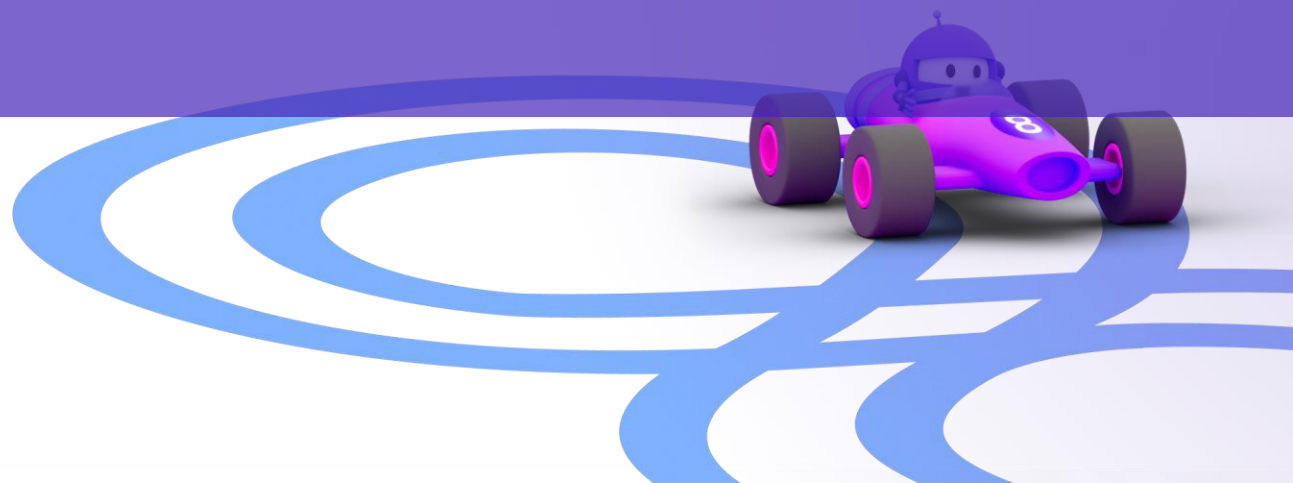


Blazor



Why migrate to Blazor?

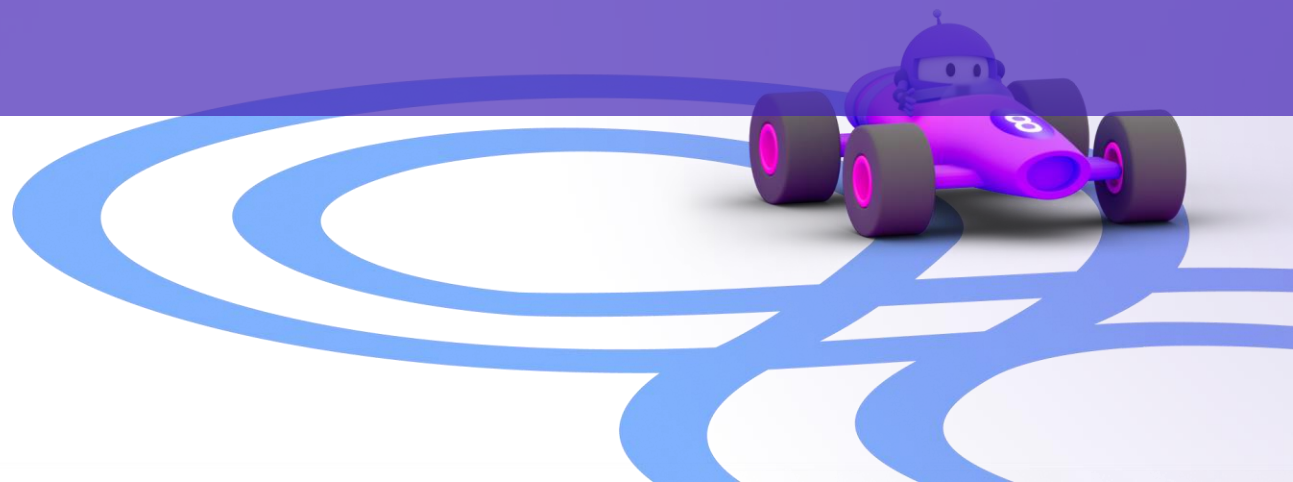
Similar component model



Web Forms	Blazor
.aspx page control .ascx user control	.razor component

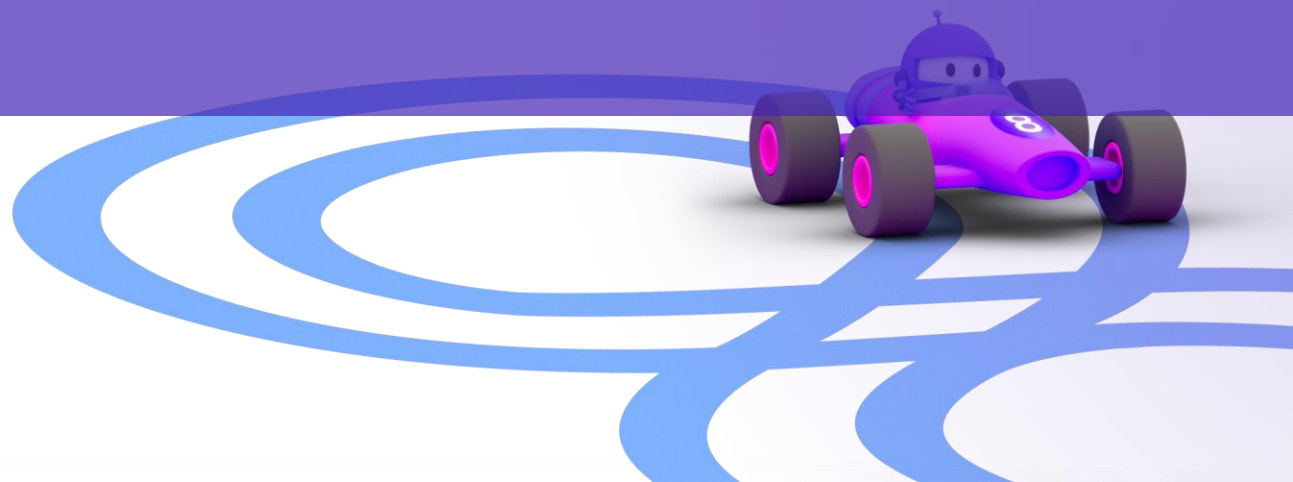
Similar component model

Similar page lifecycle management



Web Forms	Blazor
Page_Init Page_Load Page_Render	SetParameters{Async} OnInitialized{Async} OnParametersSet{Async} OnAfterRender{Async}

Improved data binding



Web Forms

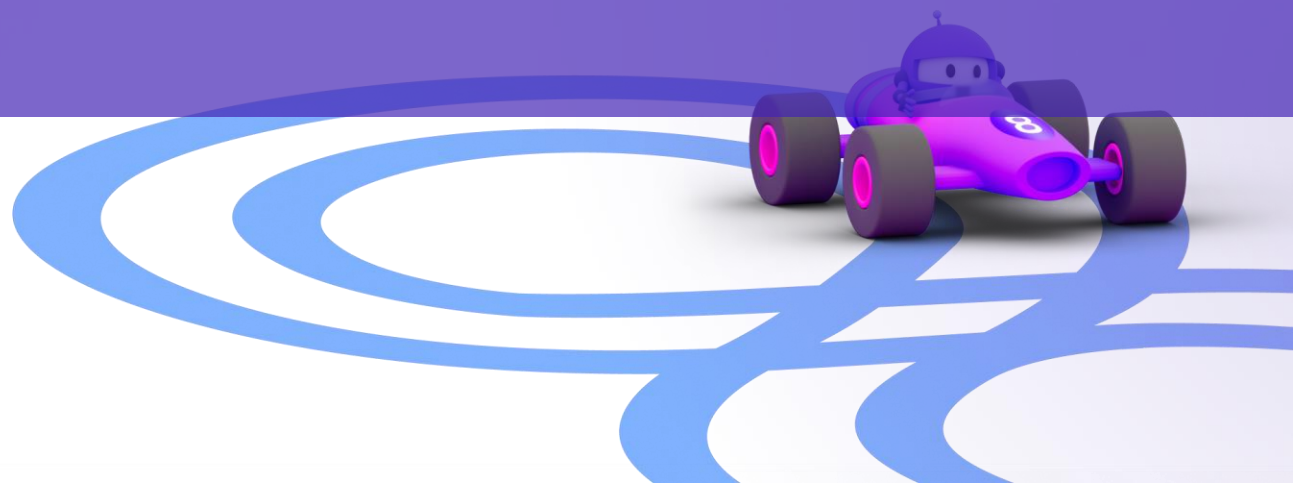
```
<asp:TextBox runat="server" ID="MyTextBox" … />
```

Blazor

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

Improved data binding

Improved event handling



Web Forms

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

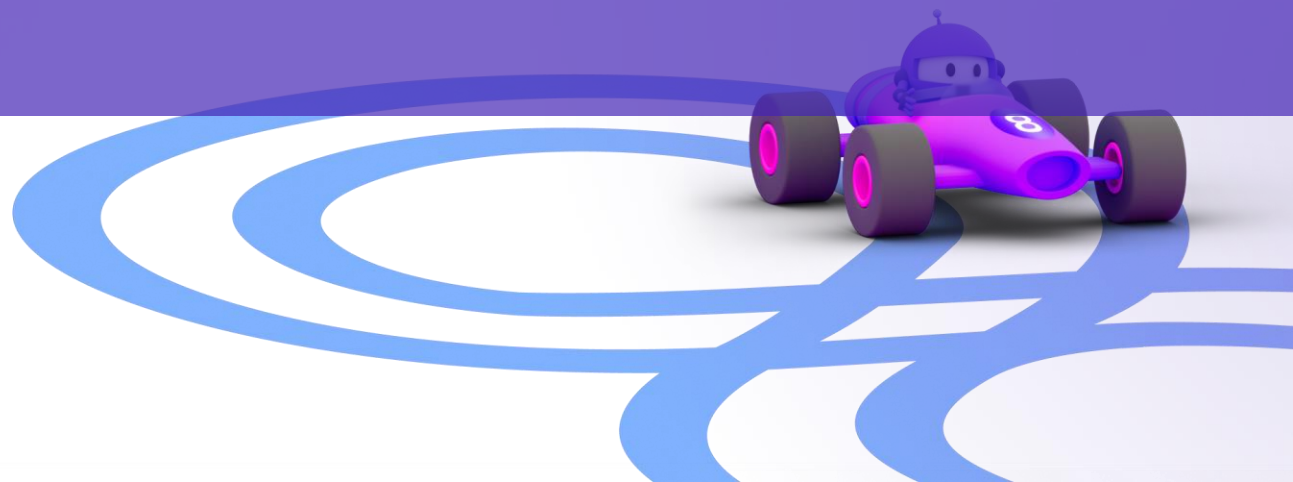
Blazor

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

Improved data binding

Improved event handling

C# for both front-end / back-end



Blazor

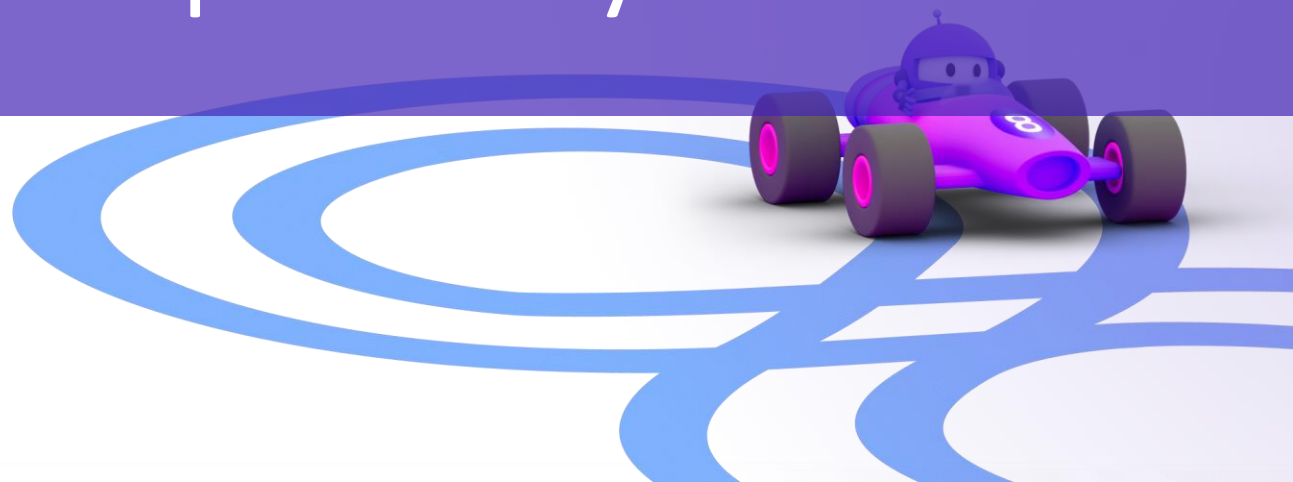
```
<button … @onclick=“ButtonClickedAsync”></button>

@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 co

Purpose

Thes *brown-field* application developers.

an application that already exists and would like to be
ly and without a complete rewrite to the latest version of Blazor so that
d 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.

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Purpose
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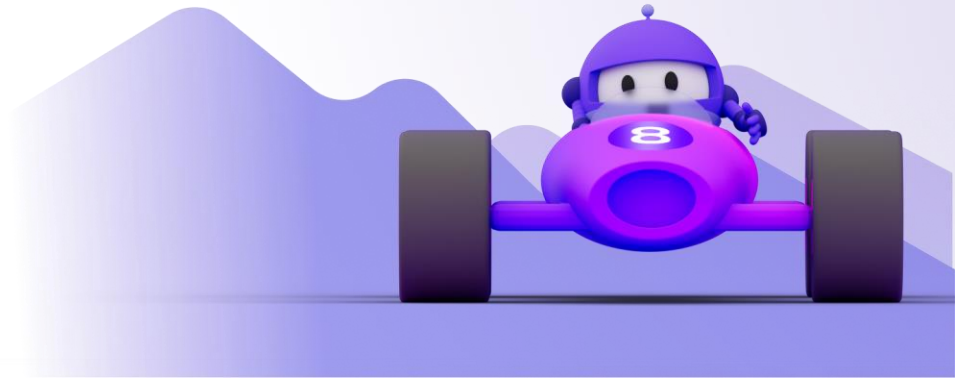
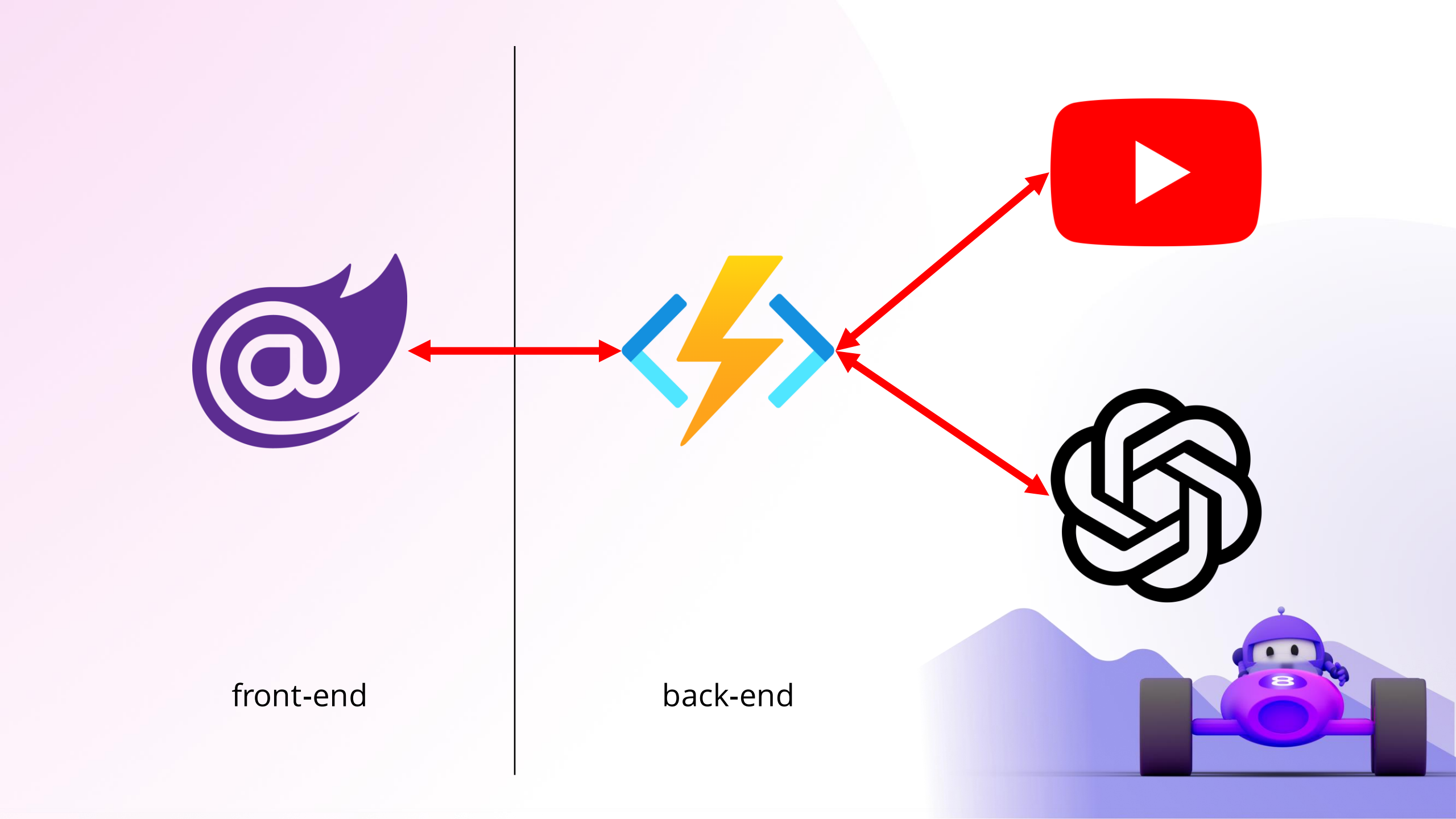
https://aka.ms/blazor-webforms-components

Demo –
Blazor Web App

front-end

back-end




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

Why migrate ASP.NET Web Forms to Blazor

Benefits of migration to Blazor

Why migrate ASP.NET Web Forms to Blazor

Benefits of migration to Blazor

Migration process

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
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Download .NET 8

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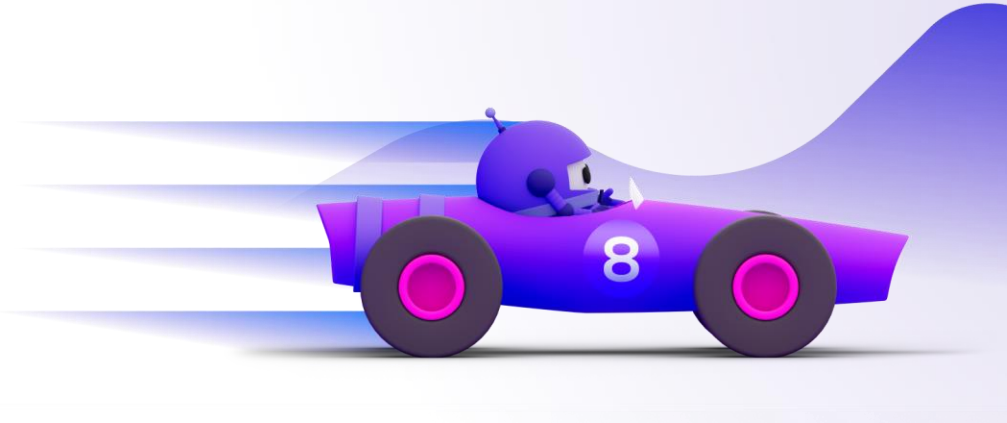
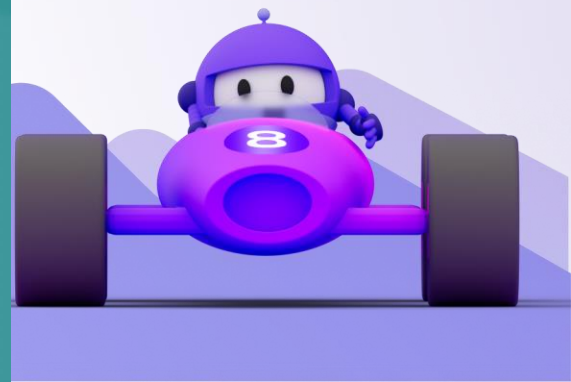
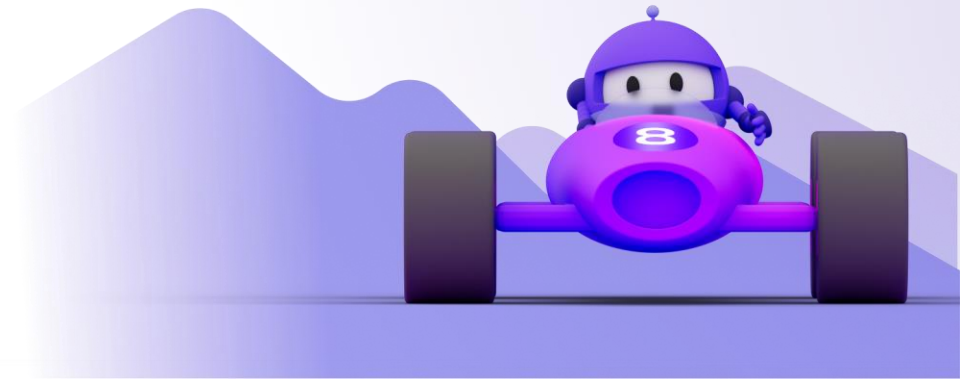


.NET Conf 2023 @ Blazor Korea



Thank you!