

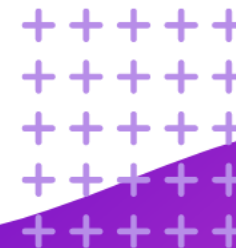
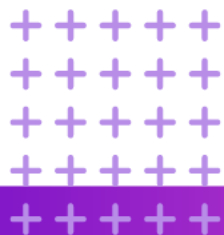


**Blazor**  
Conf 2023



# Accendi la festa con Blazor Hybrid

Nicola Paro



# Un grazie agli sponsor



E alle community che ci hanno supportato





# A Real Life Story

# A Real Life Story

Console Luci



DMX Cable



Par Led RGB



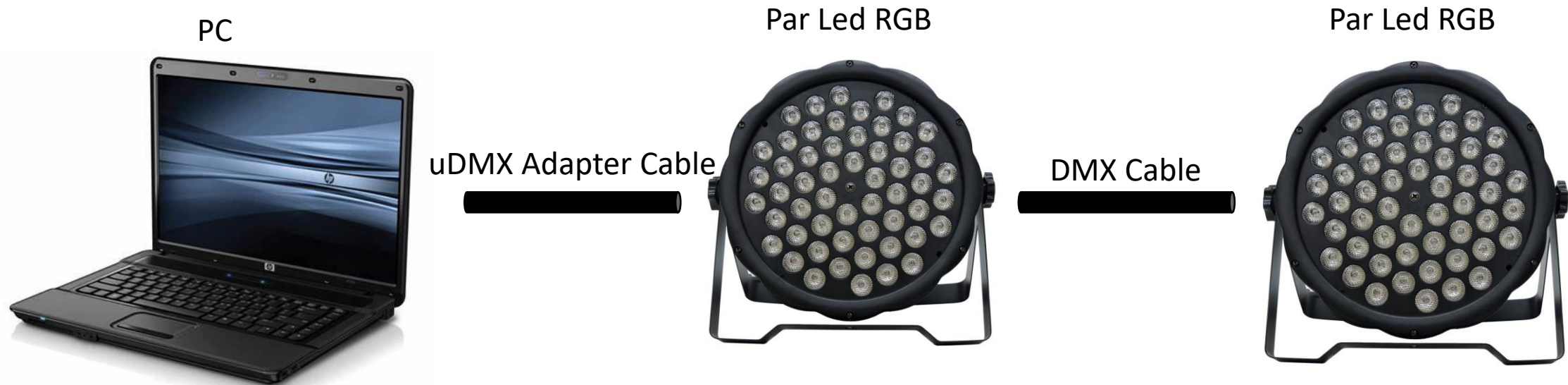
DMX Cable



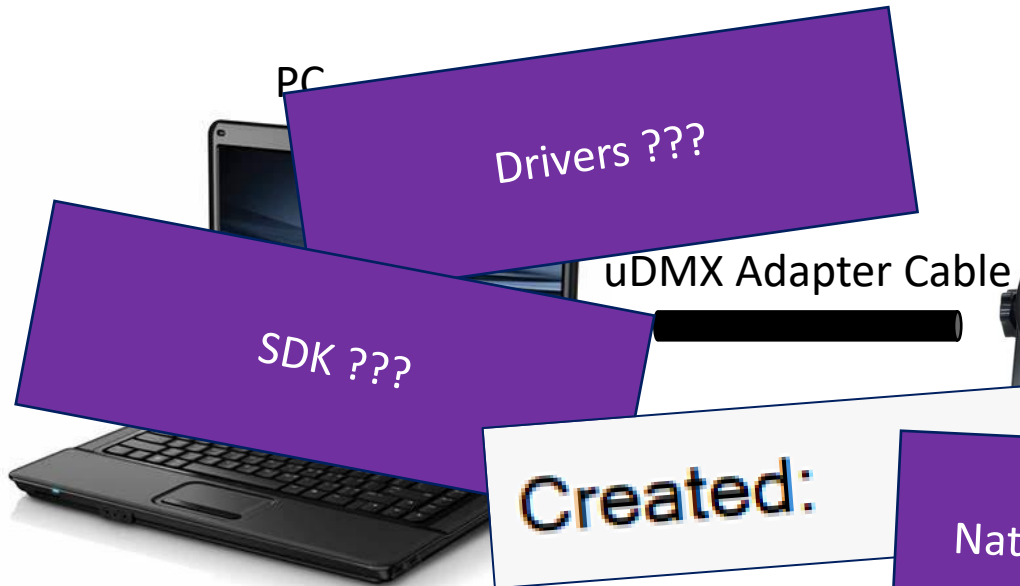
Par Led RGB



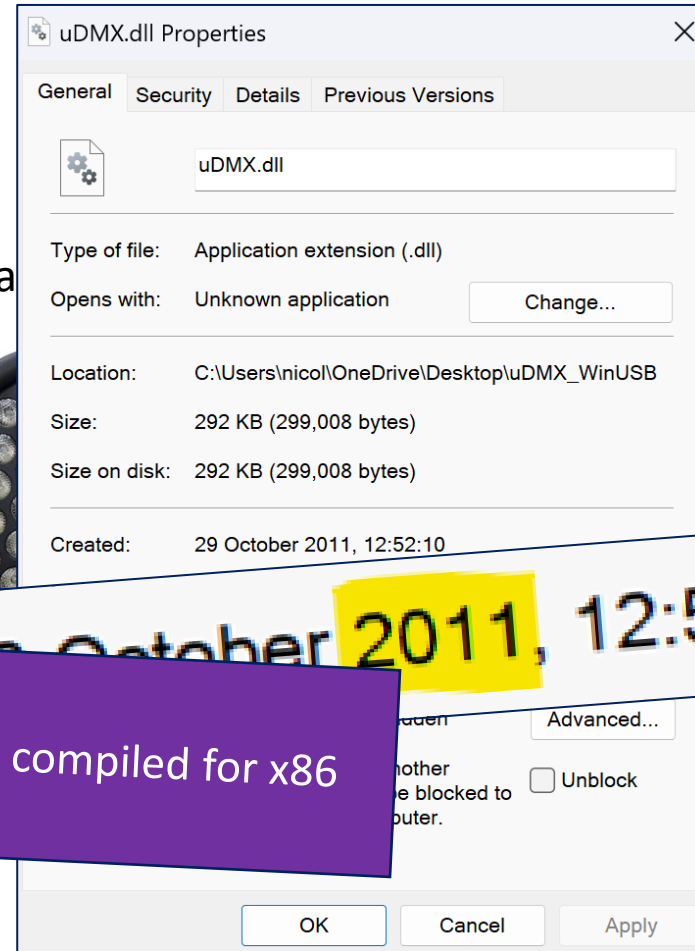
# A Real Life Story



# A Real Life Story



Pa



Par Led RGB



Created:

Natively compiled for x86

29 October 2011, 12:52:10

# A Real Life Story

Requisiti

Applicativo  
Desktop

Uso di DLL  
nativa Win32

Componenti  
UI Custom



Blazor Hybrid on WinForm





# Blazor Hybrid

On WinForms

# Razor Components in Blazor Hybrid

Differenze con le altre modalità di utilizzo di Blazor

- Eseguiti **nativamente** nel dispositivo client.
- Possono accedere a tutte le funzionalità del dispositivo utilizzando .NET
- Renderizzati in una **WebView2** “embeddata” all’interno dell’applicazione tramite un canale in interoperabilità.

<https://github.com/dotnet/maui/blob/main/src/BlazorWebView/src/SharedSource/WebView2WebViewManager.cs#L201>

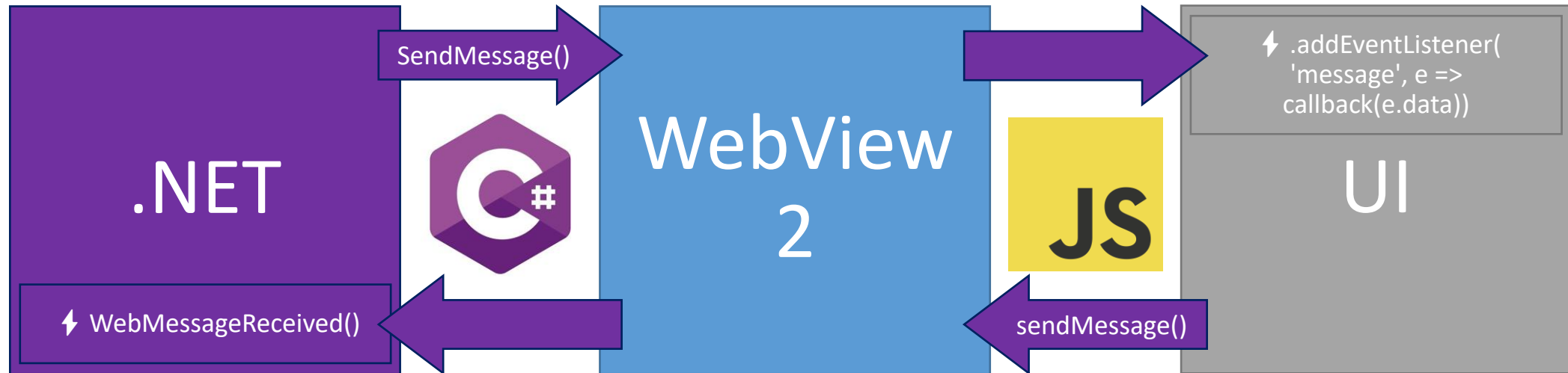
# Razor Components in Blazor Hybrid

Che cos'è WebView2 ?

- Microsoft Edge WebView2 è un runtime che fornisce funzionalità web-based ad applicativi desktop.
- Utilizza Microsoft Edge come rendering engine.










# Razor Components in Blazor Hybrid

Dietro le quinte: comunicazione tra .NET e WebView2



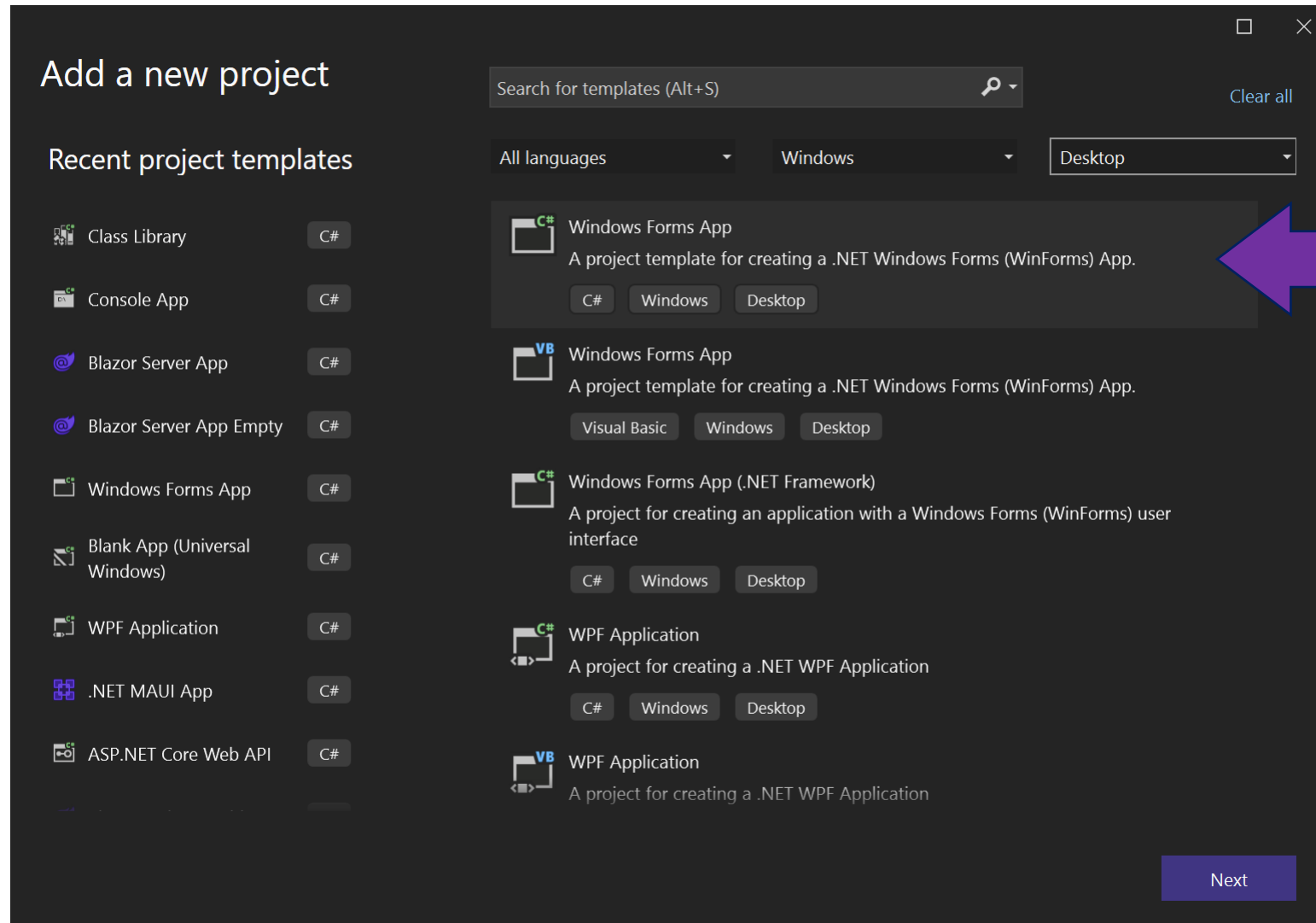
# Build a WinForm Blazor App

## Workloads

Workloads	Individual components	Language packs	Installation locations
Web & Cloud (4)			
 <b>ASP.NET and web development</b> Build web applications using ASP.NET Core, ASP.NET, HTML/JavaScript, and Containers including Docker supp...	<input checked="" type="checkbox"/>	 <b>Azure development</b> Azure SDKs, tools, and projects for developing cloud apps and creating resources using .NET and .NET Framework....	<input checked="" type="checkbox"/>
 <b>Python development</b> Editing, debugging, interactive development and source control for Python.	<input type="checkbox"/>	 <b>Node.js development</b> Build scalable network applications using Node.js, an asynchronous event-driven JavaScript runtime.	<input type="checkbox"/>
Desktop & Mobile (5)			
 <b>.NET Multi-platform App UI development</b> Build Android, iOS, Windows, and Mac apps from a single codebase using C# with .NET MAUI.	<input checked="" type="checkbox"/>	 <b>.NET desktop development</b> Build WPF, Windows Forms, and console applications using C#, Visual Basic, and F# with .NET and .NET Frame...	<input checked="" type="checkbox"/>
 <b>Desktop development with C++</b> Build modern C++ apps for Windows using tools of your choice, including MSVC, Clang, CMake, or MSBuild.	<input type="checkbox"/>	 <b>Universal Windows Platform development</b> Create applications for the Universal Windows Platform with C#, VB, or optionally C++.	<input checked="" type="checkbox"/>
 <b>Mobile development with C++</b> Build cross-platform applications for iOS, Android or Windows using C++.	<input type="checkbox"/>		

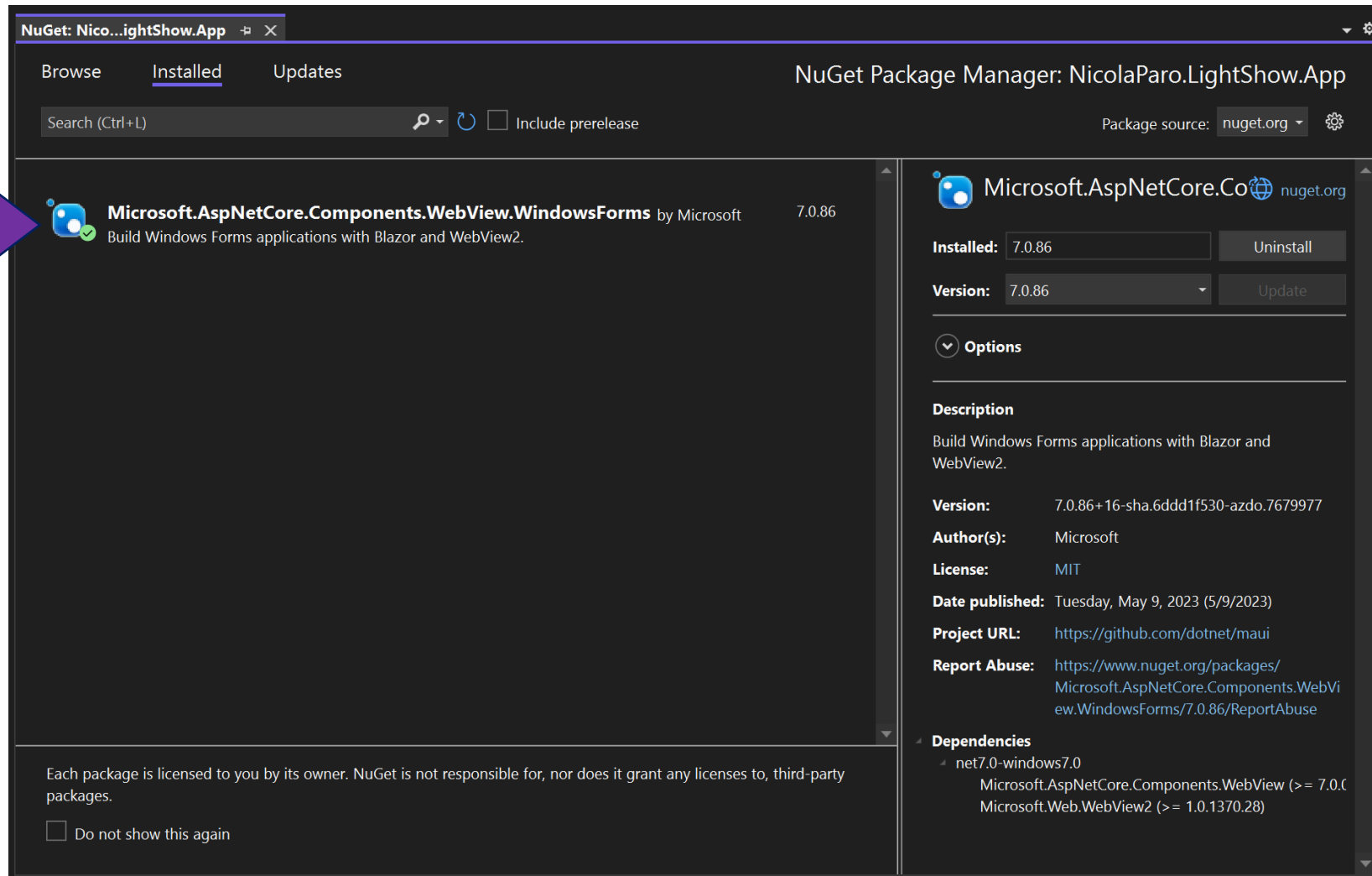
# Build a WinForm Blazor App

Creazione Progetto



# Build a WinForm Blazor App

Creazione Progetto – Aggiunta Nuget per utilizzare Blazor

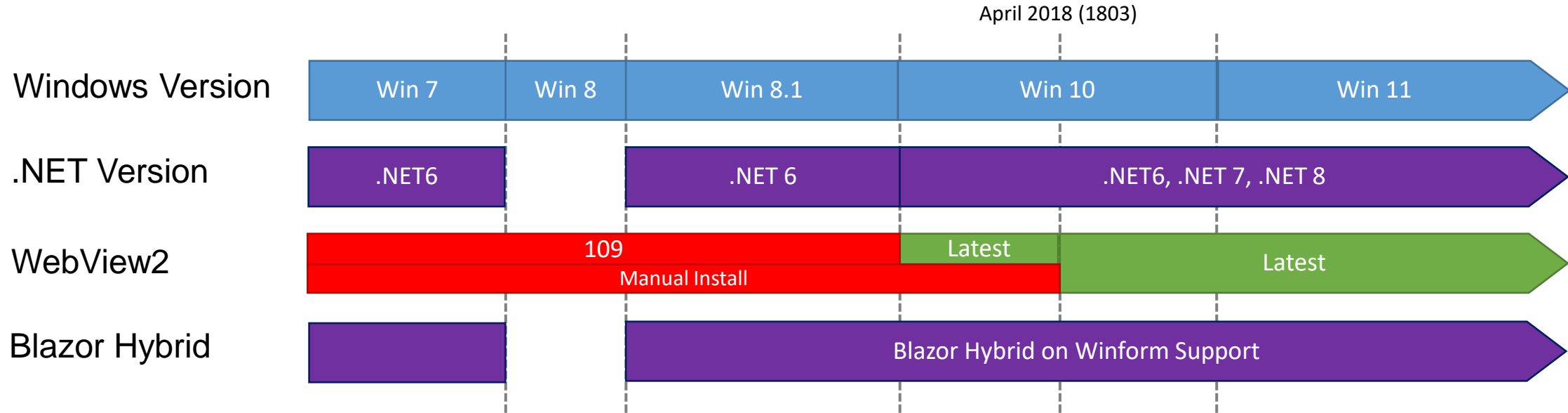




# Demo

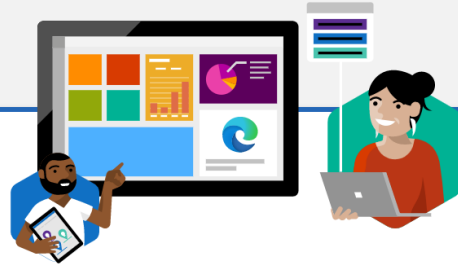


# Where can you Deliver it?



# Where can you Deliver it?

## Download the WebView2 Runtime



When distributing your application, there are a few ways you can ensure the WebView2 Runtime is on client machines. [Learn more](#) about those options. For installation issues and error codes see our [troubleshooting guide](#).

### Evergreen Bootstrapper

The Bootstrapper is a tiny installer that downloads the Evergreen Runtime matching device architecture and installs it locally. There is also a Link that allows you to programmatically download the Bootstrapper.

[Get the Link](#) ↓

[Download](#) ↓

### Evergreen Standalone Installer

A full-blown installer that can install the Evergreen Runtime in offline environment. Available for x86/x64/ARM64.

[x86](#) ↓

[x64](#) ↓

[ARM64](#) ↓

### Fixed Version

Select and package a specific version of the WebView2 Runtime with your application.

#### Select Version

113.0.177... ▼

#### Select Architecture

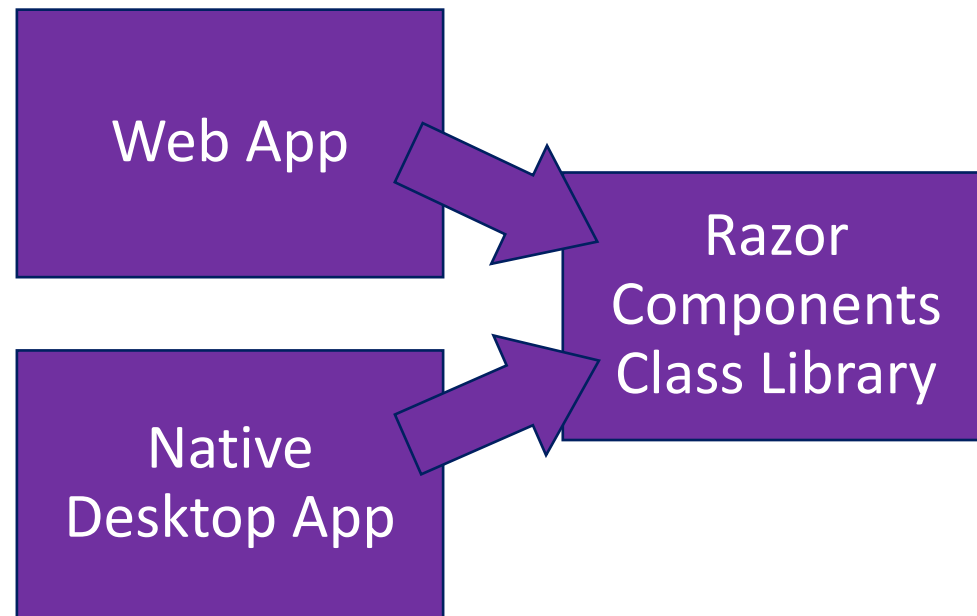
arm64 ▼

[Download](#) ↓

<https://developer.microsoft.com/en-us/microsoft-edge/webview2/>

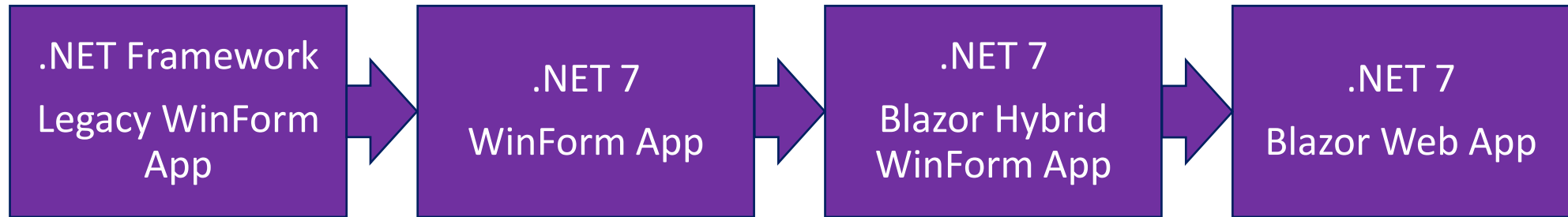
# Blazor Hybrid on WinForms – Use Cases

Stessa esperienza su Web e Desktop



# Blazor Hybrid on WinForms – Use Cases

Step intermedio per la Modernizzazione delle Applicazioni



[.NET Upgrade Assistant](#)

# About Me

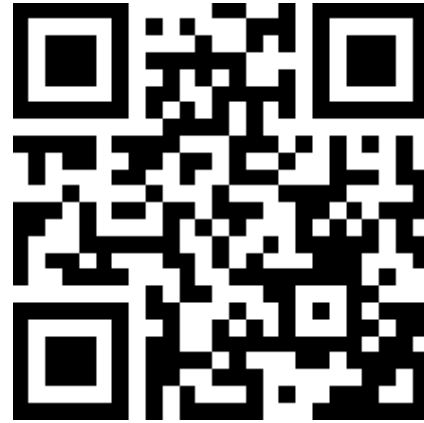
## Nicola Paro

Cloud Solutions Engineer | Technical Team Leader

@ beanTech



[linkedin.com/in/nicolaparo](https://linkedin.com/in/nicolaparo)



[github.com/nicolaparo](https://github.com/nicolaparo)





Grazie!