

Let's turn your website into
a hybrid .NET MAUI app

Mark Allibone

Rey Technology

@mallibone

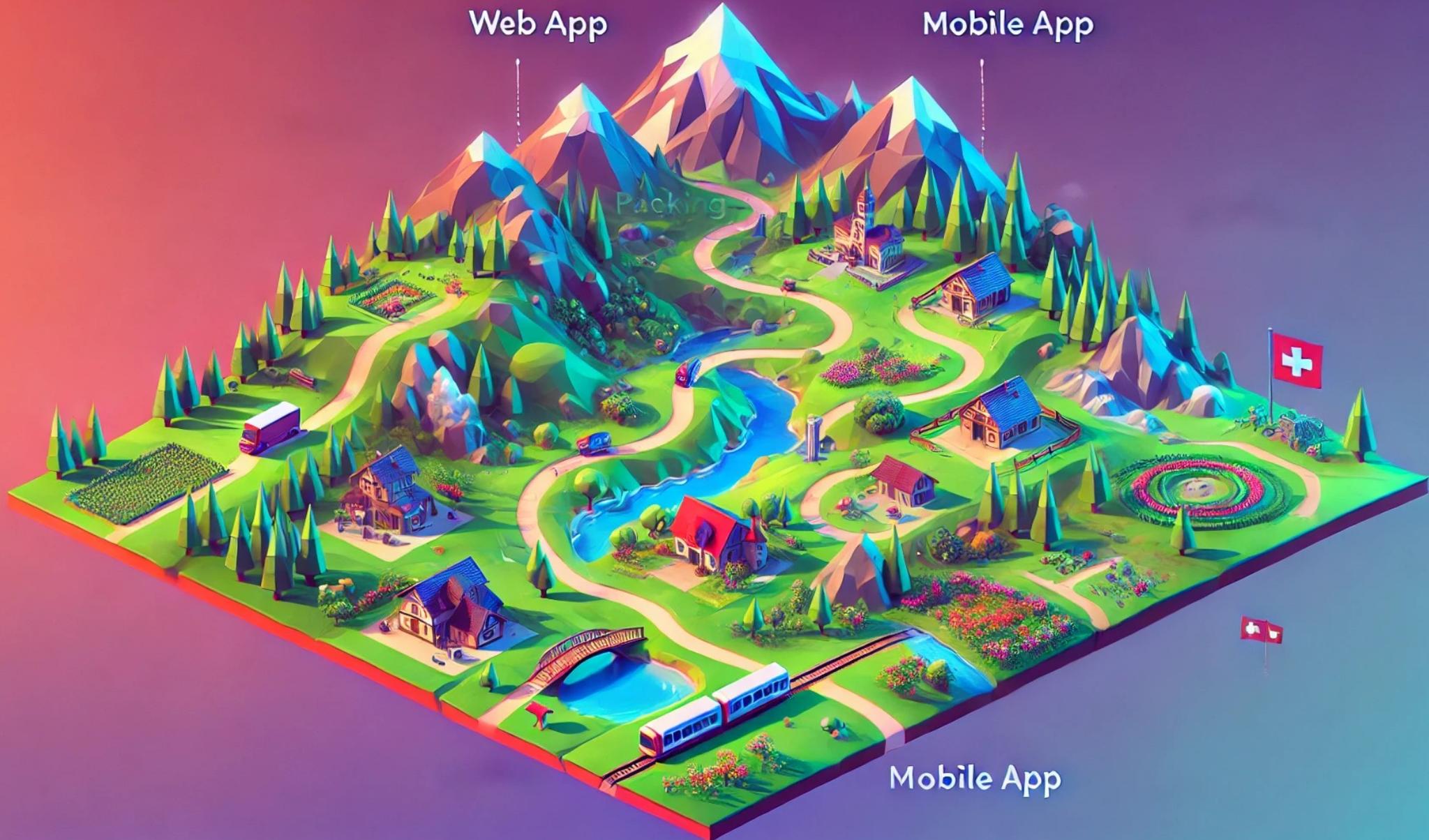
Hello my name is Mark

-  Mark Allibone
-  @mallibone
-  Rey Technology
-  <https://mallibone.com>
-  <https://nullpointers.io>

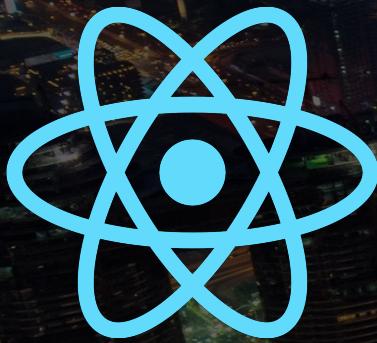


Web App

Mobile App



Mobile App



JS

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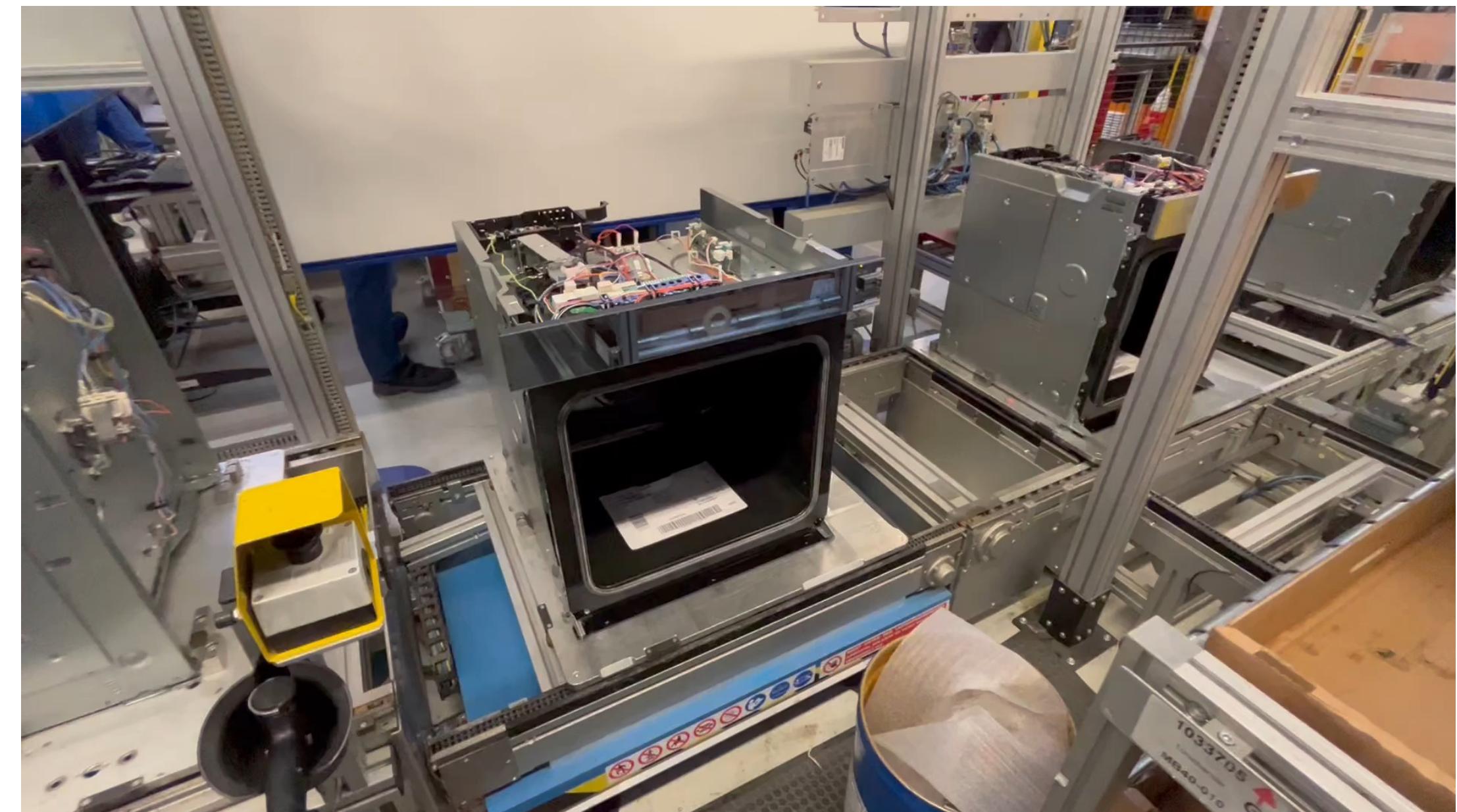


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A

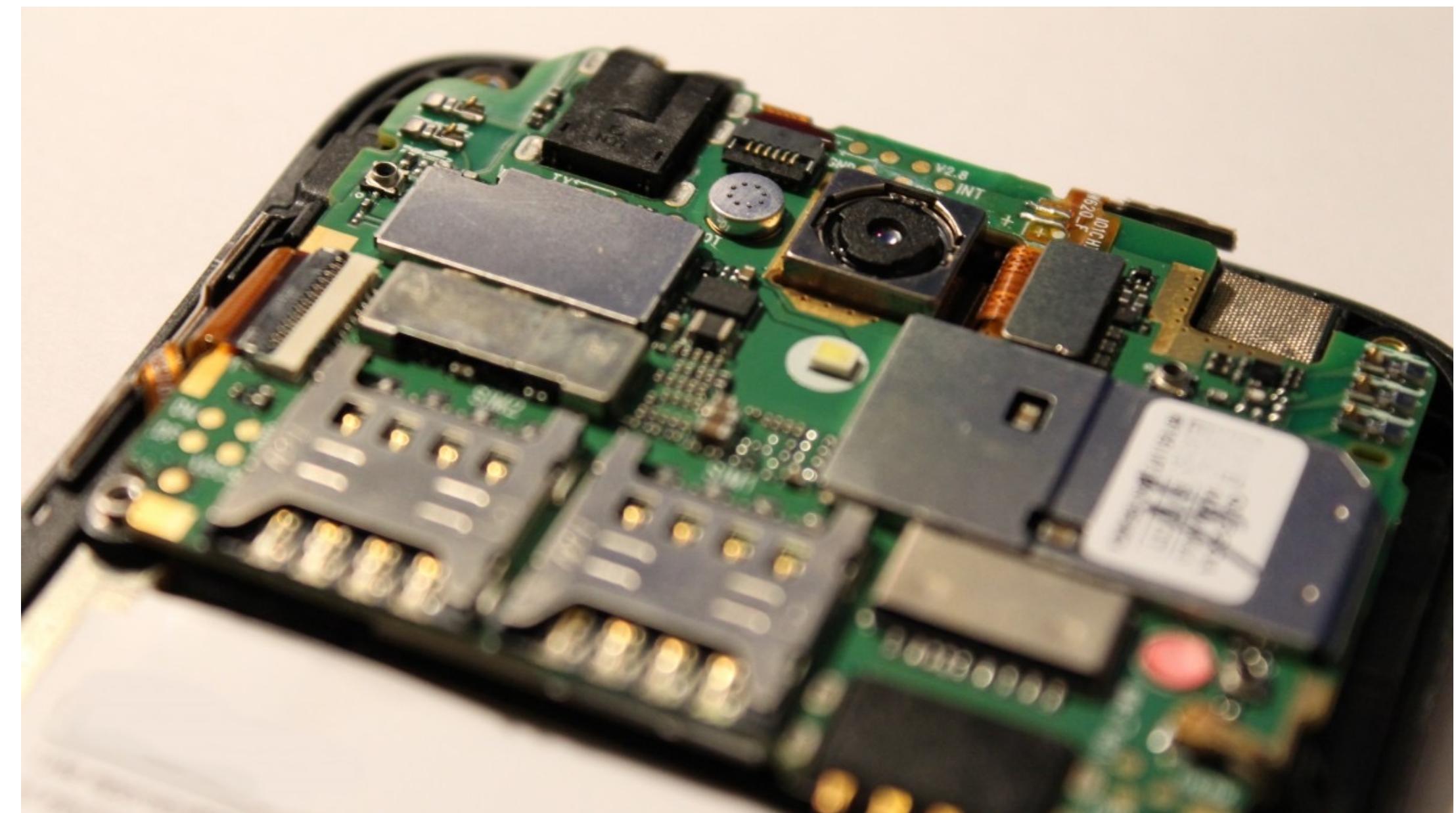
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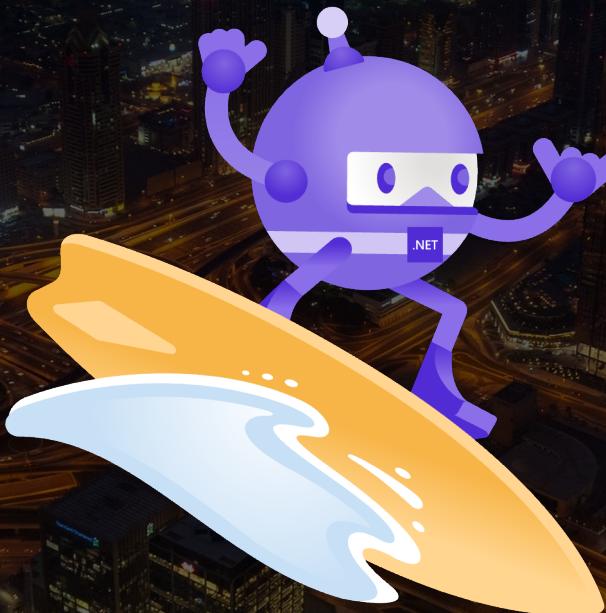




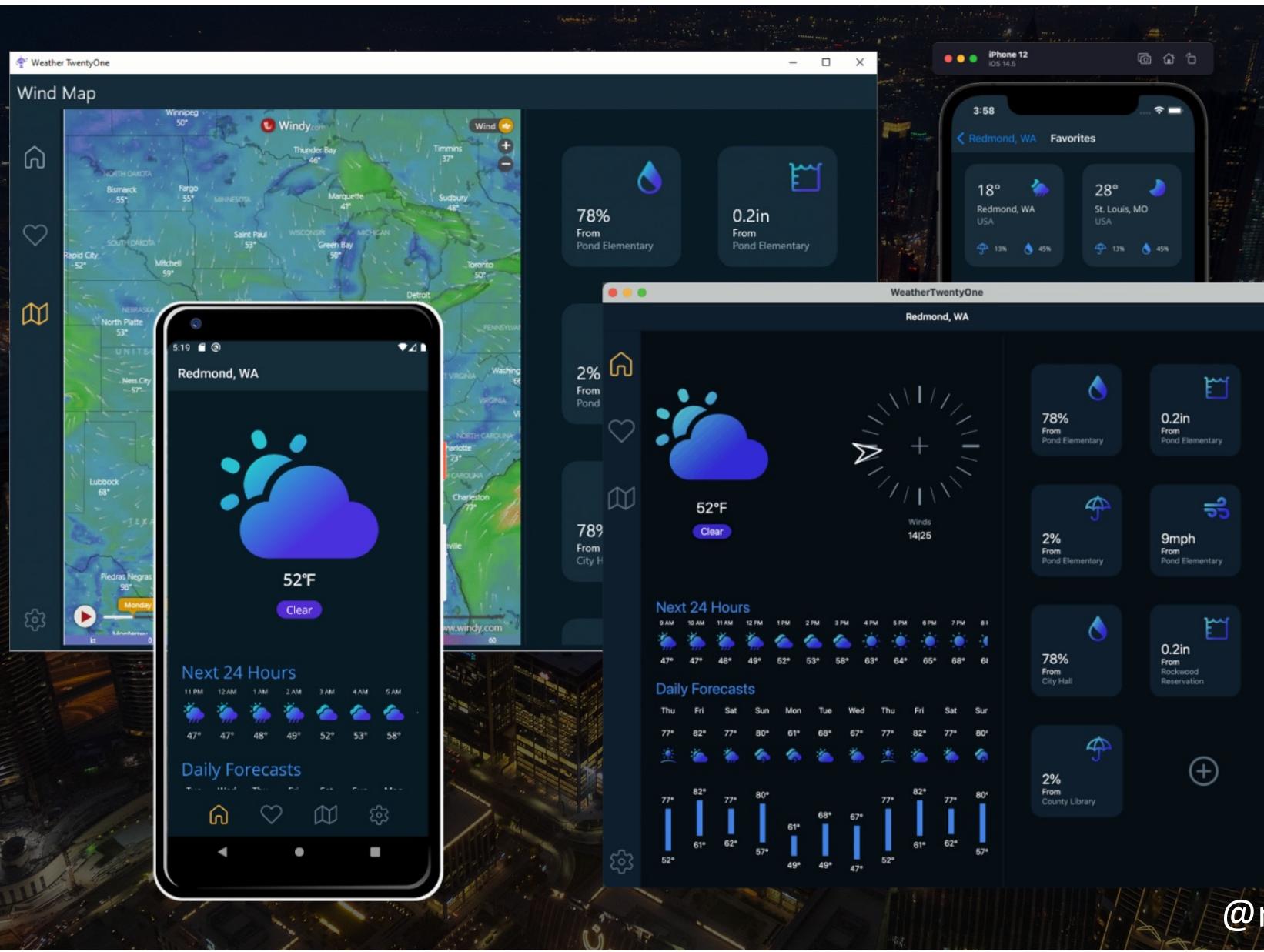
[This Photo](#) by Unknown Author is licensed under [CC BY-NC](#)

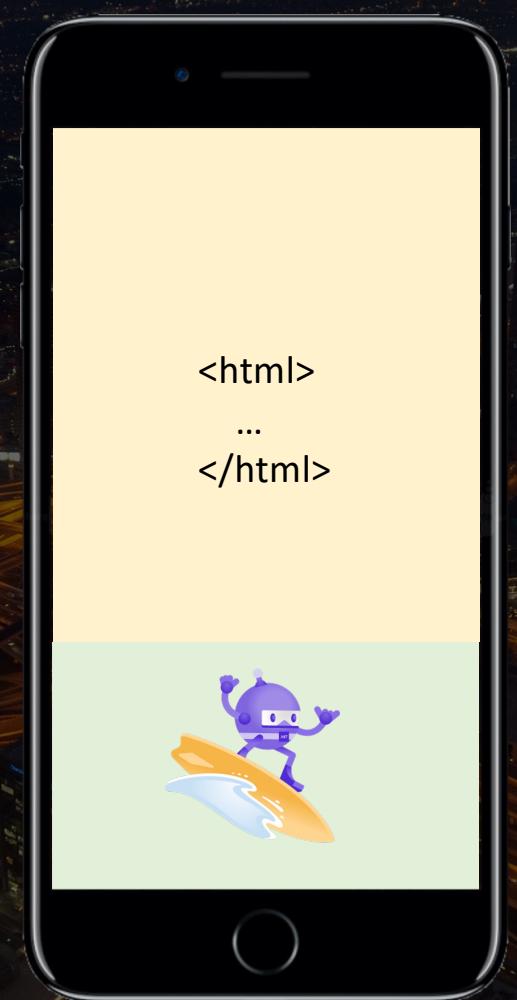
@mallibone





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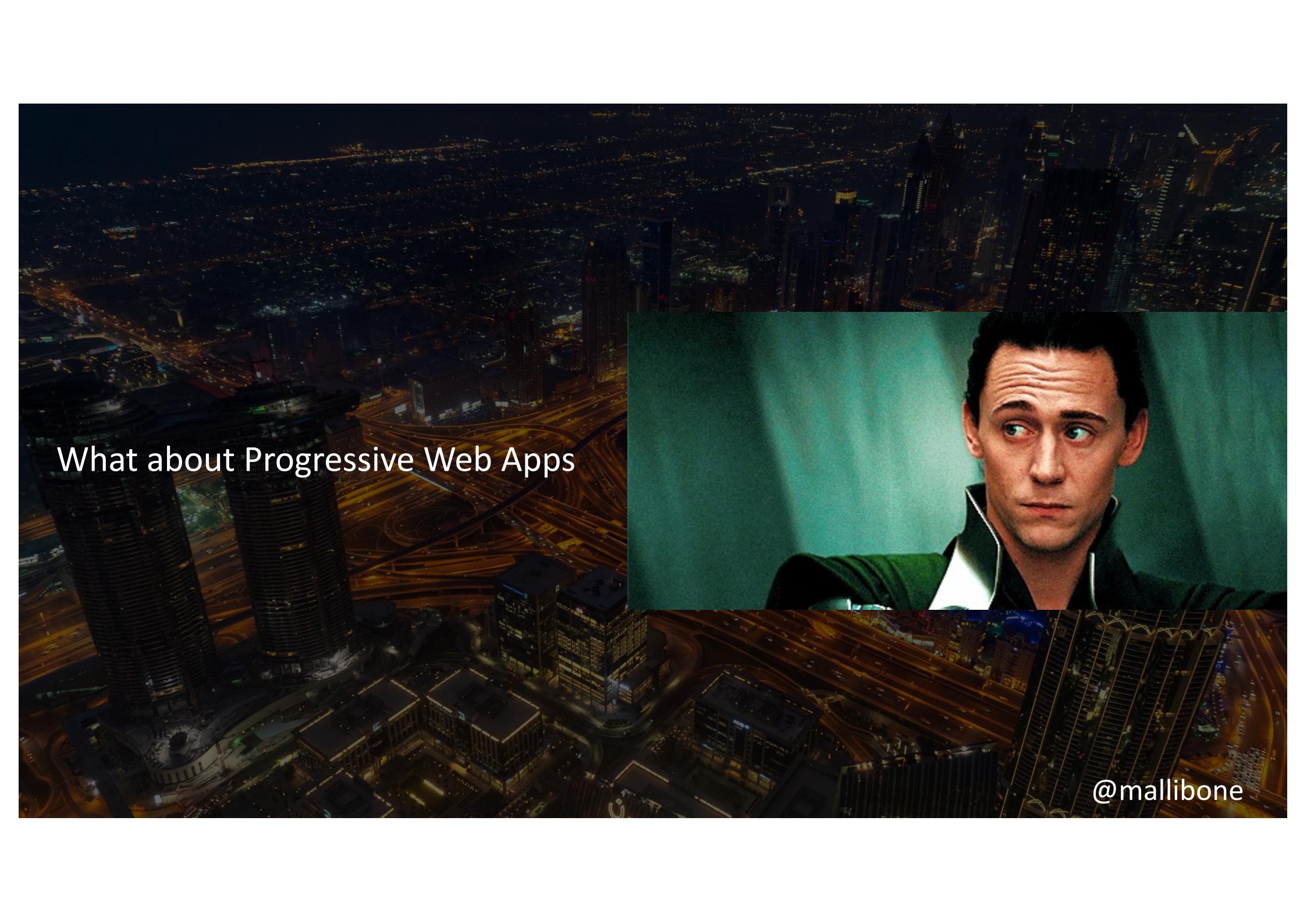




```
<html>
...
</html>
```



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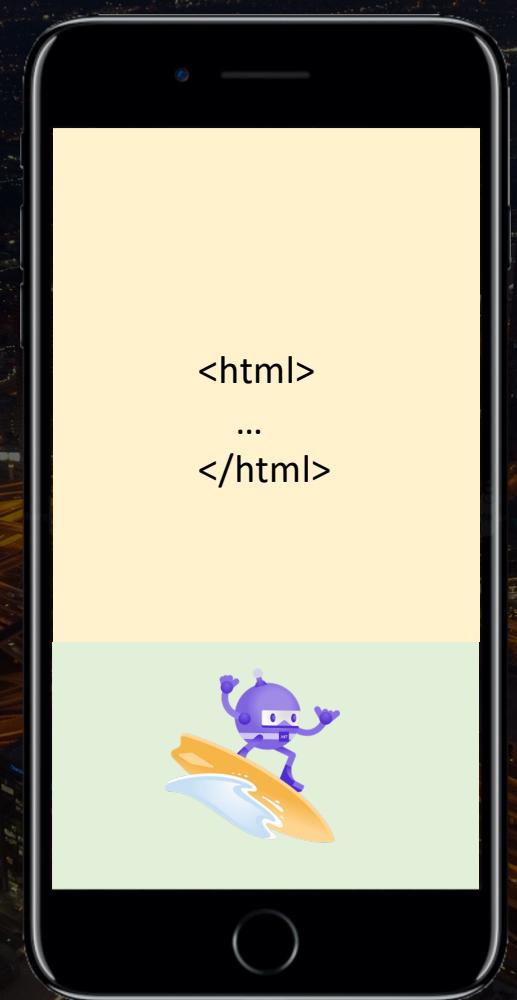
What about Progressive Web Apps



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```
<html>
...
</html>
```

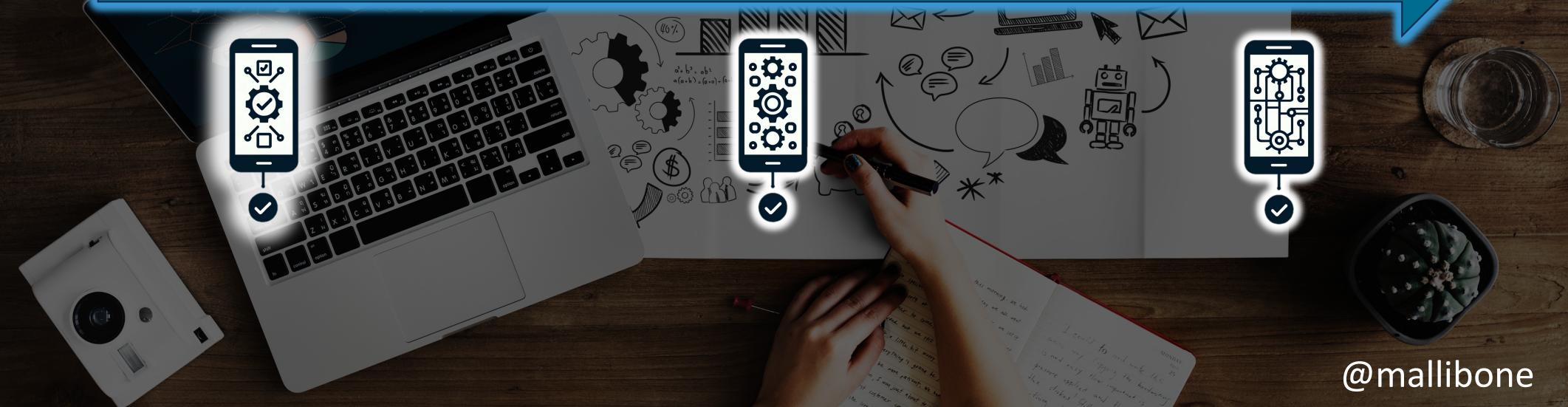


@mallibone

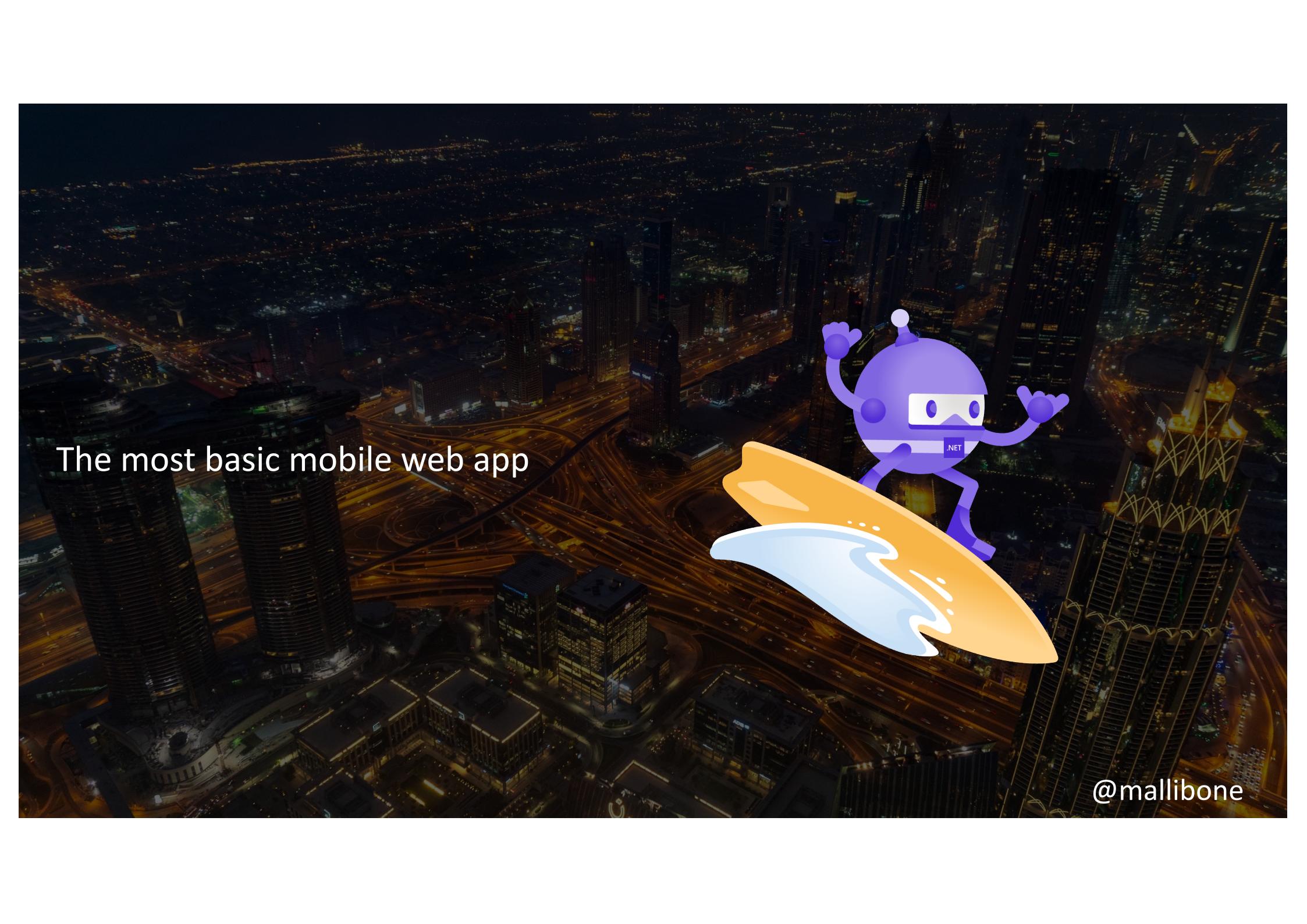
Hybrid continuum



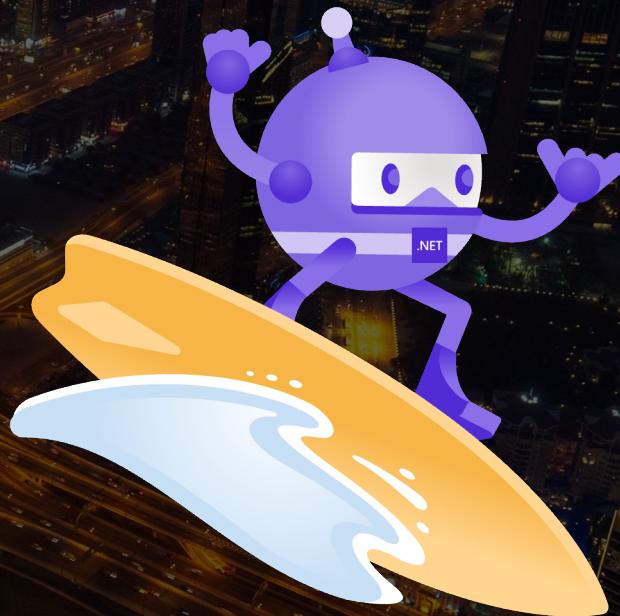
Hybrid continuum



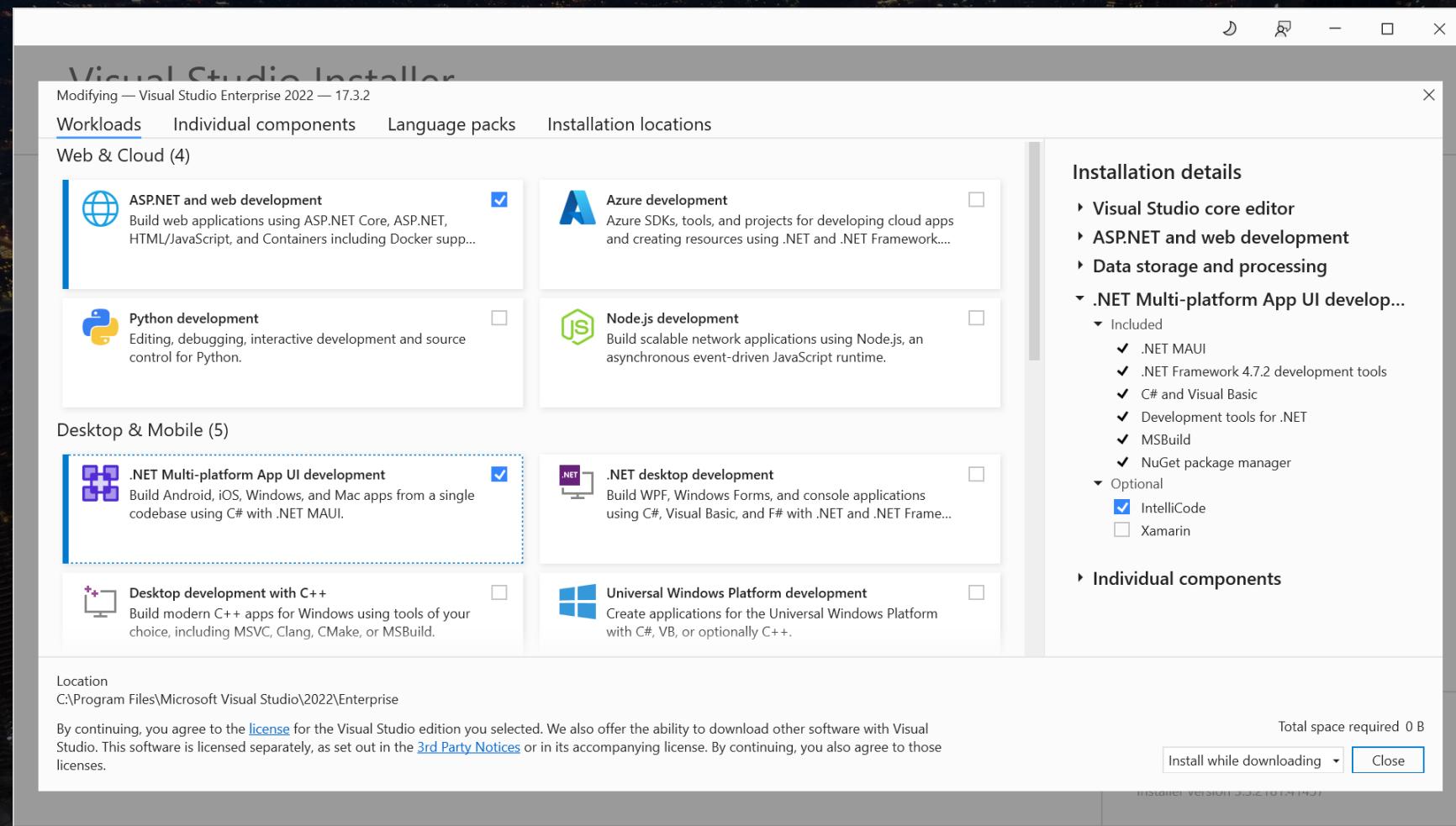
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The most basic mobile web app



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Visual Studio Installer

Modifying — Visual Studio Enterprise 2022 — 17.3.2

Workloads Individual components Language packs Installation locations

Web & Cloud (4)



ASP.NET and web development

Build web applications using ASP.NET Core, ASP.NET, HTML/JavaScript, and Containers including Docker supp...



Azure development

Azure SDKs, tools, and projects for developing cloud apps and creating resources using .NET and .NET Framework....



Python development

Editing, debugging, interactive development and source control for Python.



Node.js development

Build scalable network applications using Node.js, an asynchronous event-driven JavaScript runtime.



Desktop & Mobile (5)



.NET Multi-platform App UI development

Build Android, iOS, Windows, and Mac apps from a single codebase using C# with .NET MAUI.



.NET desktop development

Build WPF, Windows Forms, and console applications using C#, Visual Basic, and F# with .NET and .NET Frame...



Desktop development with C++

Build modern C++ apps for Windows using tools of your choice, including MSVC, Clang, CMake, or MSBuild.



Universal Windows Platform development

Create applications for the Universal Windows Platform with C#, VB, or optionally C++.



Location

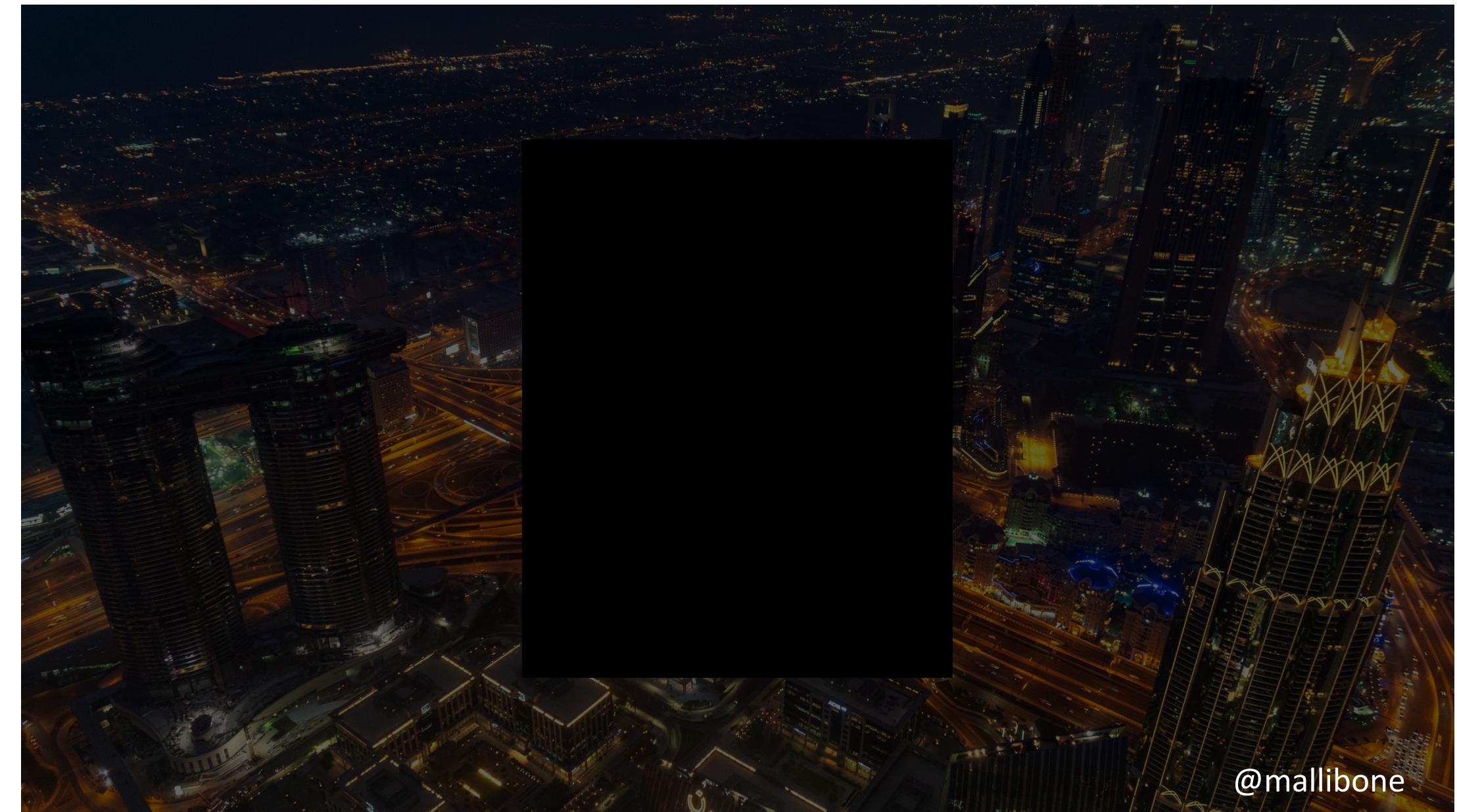
C:\Program Files\Microsoft Visual Studio\2022\Enterprise

By continuing, you agree to the [license](#) for the Visual Studio edition you selected. We also offer the ability to download other software with Visual Studio. This software is licensed separately, as set out in the [3rd Party Notices](#) or in its accompanying license. By continuing, you also agree to those licenses.

Total space require

Install while downloading Click to expand

Installer version 3.5.2 (01.41437)



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Create a new project

Recent project templates

.NET MAUI App

C#

-  **.NET MAUI App**
A project for creating a .NET MAUI application for iOS, Android, Mac Catalyst, WinUI and Tizen
New
C# Android iOS Mac Catalyst macOS **MAUI** Tizen
Windows
-  **.NET MAUI Blazor App**
A project for creating a .NET MAUI application for iOS, Android, Mac Catalyst, WinUI, and Tizen using Blazor
C# Android Blazor iOS Mac Catalyst macOS **MAUI**
Tizen Windows
-  **.NET MAUI Class Library**
A project for creating a .NET MAUI class library
New
C# Android iOS Mac Catalyst macOS **MAUI** Tizen
Windows
-  **Console App (.NET Framework)**
A project for creating a command-line application
C# Windows Console
-  **ASP.NET Web Application (.NET Framework)**

Next

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File Edit View Git Project Build Debug XML Test Analyze Tools Extensions Window Help Search **MauiApp1**

Debug Any CPU Android Emulator Live Share

Toolbox SQL Server Object Explorer

MauiApp1.csproj

```
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <TargetFrameworks>net6.0-android;net6.0-ios;net6.0-maccatalyst</TargetFrameworks>
    <TargetFrameworks Condition="\"$([MSBuild]::IsOSPlatform('windows'))\">$([TargetFrameworks]);net6.0-windows10.0.19041.0</TargetFrameworks>
    <!-- Uncomment to also build the tizen app. You will need to install tizen by following this: https://github.com/Samsung/Tizen.NET -->
    <!-- <TargetFrameworks>$([TargetFrameworks]);net6.0-tizen</TargetFrameworks> -->
    <OutputType>Exe</OutputType>
    <RootNamespace>MauiApp1</RootNamespace>
    <UseMaui>true</UseMaui>
    <SingleProject>true</SingleProject>
    <ImplicitUsings>enable</ImplicitUsings>

    <!-- Display name -->
    <ApplicationTitle>MauiApp1</ApplicationTitle>

    <!-- App Identifier -->
    <ApplicationId>com.companyname.mauiapp1</ApplicationId>
    <ApplicationIdGuid>2128AE37-4BEC-46F8-B35E-B17F617BB30D</ApplicationIdGuid>

    <!-- Versions -->
    <ApplicationDisplayVersion>1.0</ApplicationDisplayVersion>
    <ApplicationVersion>1</ApplicationVersion>

    <SupportedOSPlatformVersion Condition="\"$([MSBuild]::GetTargetPlatformIdentifier('$(TargetFramework)')\" == 'ios')\">14.2</SupportedOSPlatformVersion>
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    <SupportedOSPlatformVersion Condition="\"$([MSBuild]::GetTargetPlatformIdentifier('$(TargetFramework)')\" == 'windows')\">10.0.17763.0</SupportedOSPlatformVersion>
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    <SupportedOSPlatformVersion Condition="\"$([MSBuild]::GetTargetPlatformIdentifier('$(TargetFramework)')\" == 'tizen')\">6.5</SupportedOSPlatformVersion>
  </PropertyGroup>

  <ItemGroup>
    <!-- App Icon -->
    <MauiIcon Include="Resources\Icon\appicon.svg" ForegroundFile="Resources\Icon\appiconfg.svg" Color="#512BD4" />

    <!-- Splash Screen -->
    <MauiSplashScreen Include="Resources\Splash\splash.svg" Color="#512BD4" BaseSize="128,128" />

    <!-- Images -->
    <MauiImage Include="Resources\Images\*" />
    <MauiImage Update="Resources\Images\dotnet_bot.svg" BaseSize="168,208" />

    <!-- Custom Fonts -->
    <MauiFont Include="Resources\Fonts\*" />

    <!-- Raw Assets (also remove the "Resources\Raw" prefix) -->
    <MauiAsset Include="Resources\Raw\**" LogicalName="%(RecursiveDir)%(Filename)%(Extension)" />
  </ItemGroup>

```

100 % No issues found Ln: 1 Ch: 1 TABS CRLF

Error List Output

Solution Explorer

Search Solution Explorer (Ctrl+U)

Solution 'MauiApp1' (1 of 1 project)

MauiApp1

- Dependencies
- Properties
- Platforms
 - Android
 - iOS
 - MacCatalyst
 - Tizen
 - Windows
- Resources
- App.xaml
- AppShell.xaml
- MainPage.xaml
- MauiProgram.cs

Solution Explorer Git Changes

Properties

XML Document

Misc

Encoding Unicode (UTF-8)

Output

Schemas "C:\Program Files\Microsoft Visual Studio\2022\Community\SDK\NuGetFallbackFolder\Microsoft.Maui\6.0.0\ref\net6.0\Microsoft.Maui.dll"

Stylesheet

Encoding

Character encoding of the document.

Add to Source Control Select Repository



Demo Retro

- Sometimes all you need is a WebView
- And some custom injected JS (and CSS)
- WebView != Browser

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WEBVIEW

MANAGEMENT

REALITY

MauiApp1

Live Share

Solution Explorer

Search Solution Explorer (Ctrl+U)

Solution 'MauiApp1' (1 of 1 project)

MauiApp1

- Dependencies
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- AppShell.xaml
- MainPage.xaml
- C# MauiProgram.cs

Solution Explorer | Git Changes

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File Edit View Git Project Build Debug XML Test Analyze Tools Window Help Search

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    <UseMaui>true</UseMaui>
    <SingleProject>true</SingleProject>
    <ImplicitUsings>enable</ImplicitUsings>

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    <ApplicationId>com.companyname.mauiapp1</ApplicationId>
    <ApplicationIdGuid>2128AE37-4BEC-46F8-B35E-B17F617BB30D</ApplicationIdGuid>

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    <SupportedOSPlatformVersion Condition="\"$([MSBuild]::GetTargetPlatformIdentifier('$(TargetFramework)')\" == 'windows')\">10.0.17763.0</SupportedOSPlatformVersion>
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  </PropertyGroup>

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    <!-- App Icon -->
    <MauiIcon Include="Resources\Icon\appicon.svg" ForegroundFile="Resources\Icon\appiconfg.svg" Color="#512BD4" />

    <!-- Splash Screen -->
    <MauiSplashScreen Include="Resources\Splash\splash.svg" Color="#512BD4" BaseSize="128,128" />

    <!-- Images -->
    <MauiImage Include="Resources\Images\*" />
    <MauiImage Update="Resources\Images\dotnet_bot.svg" BaseSize="168,208" />

    <!-- Custom Fonts -->
    <MauiFont Include="Resources\Fonts\*" />

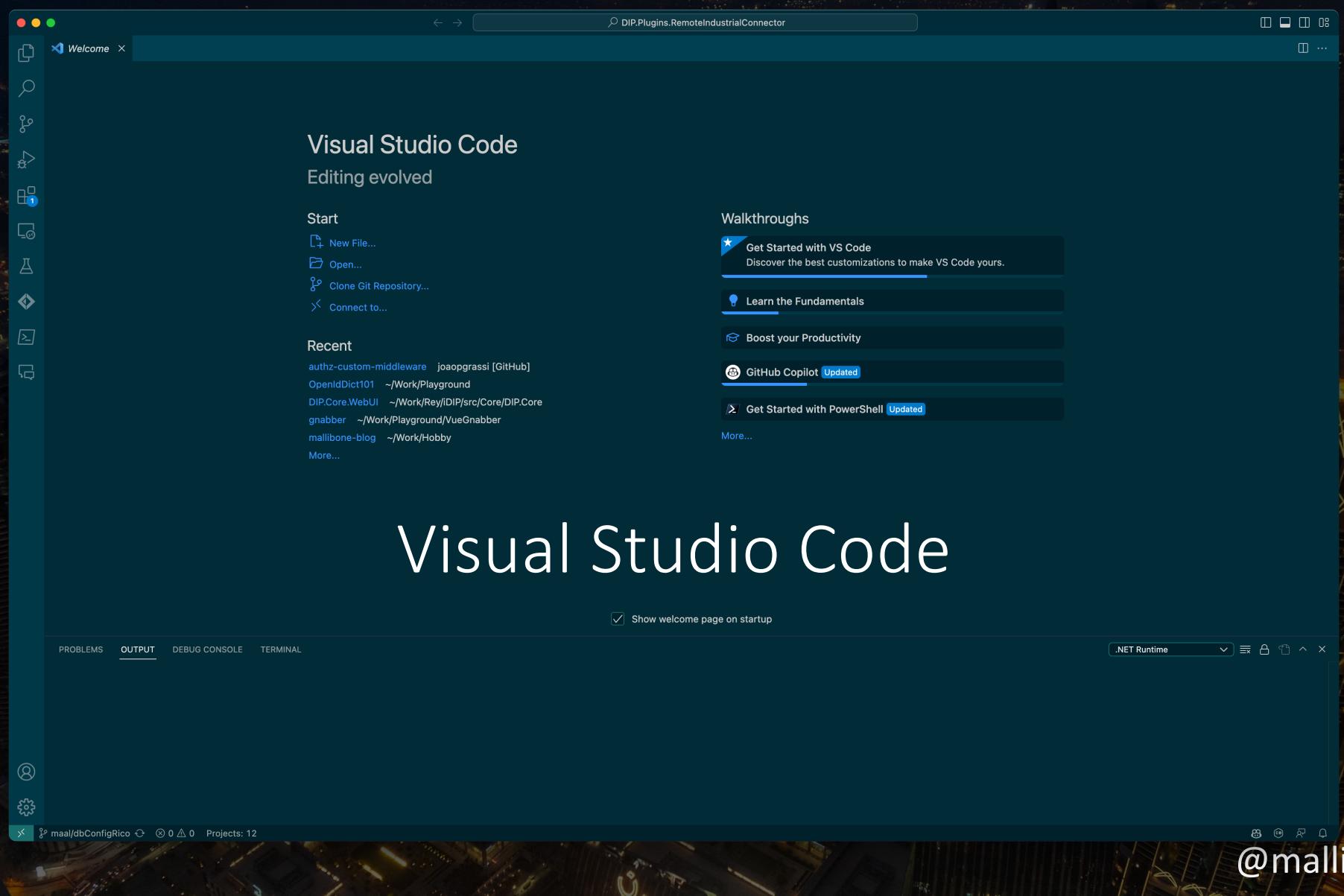
    <!-- Raw Assets (also remove the "Resources\Raw" prefix) -->
    <MauiAsset Include="Resources\Raw\**" LogicalName="%(RecursiveDir)%(Filename)%(Extension)" />
  </ItemGroup>

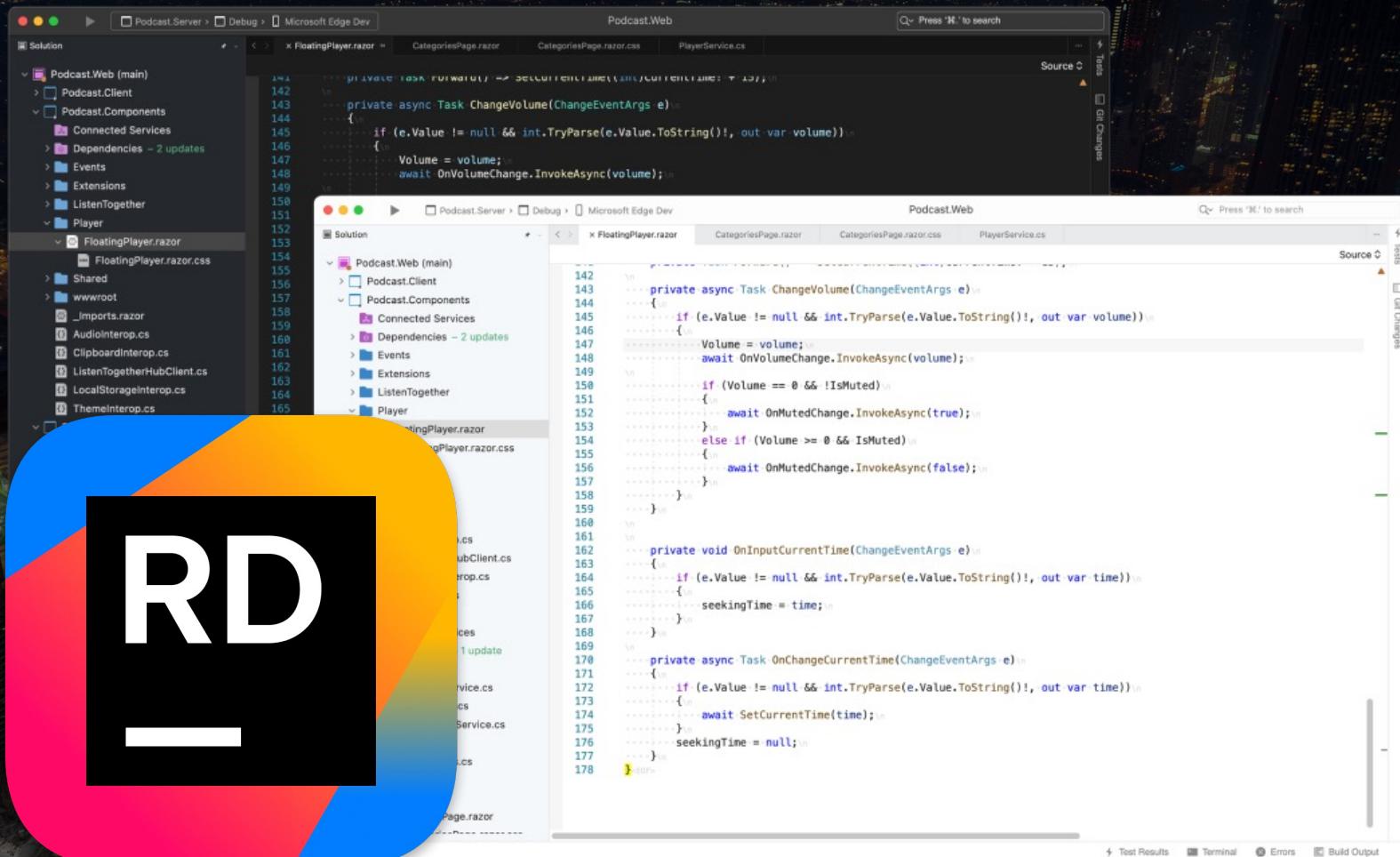
```

100 % No issues found Ln: 1 Ch: 1 TABS CRLF

Error List Output

Ready Add to Source Control Select Repository





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VS for Mac

```
private async Task ChangeVolume(ChangeEventArgs e)
{
    if (e.Value != null && int.TryParse(e.Value.ToString(), out var volume))
    {
        Volume = volume;
        await OnVolumeChange.InvokeAsync(volume);
    }
}

private void OnInputCurrentTime(ChangeEventArgs e)
{
    if (e.Value != null && int.TryParse(e.Value.ToString(), out var time))
    {
        seekingTime = time;
    }
}

private async Task OnChangeCurrentTime(ChangeEventArgs e)
{
    if (e.Value != null && int.TryParse(e.Value.ToString(), out var time))
    {
        await SetCurrentTime(time);
        seekingTime = null;
    }
}
```

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imgflip.com

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Hybrid continuum



Hybrid continuum



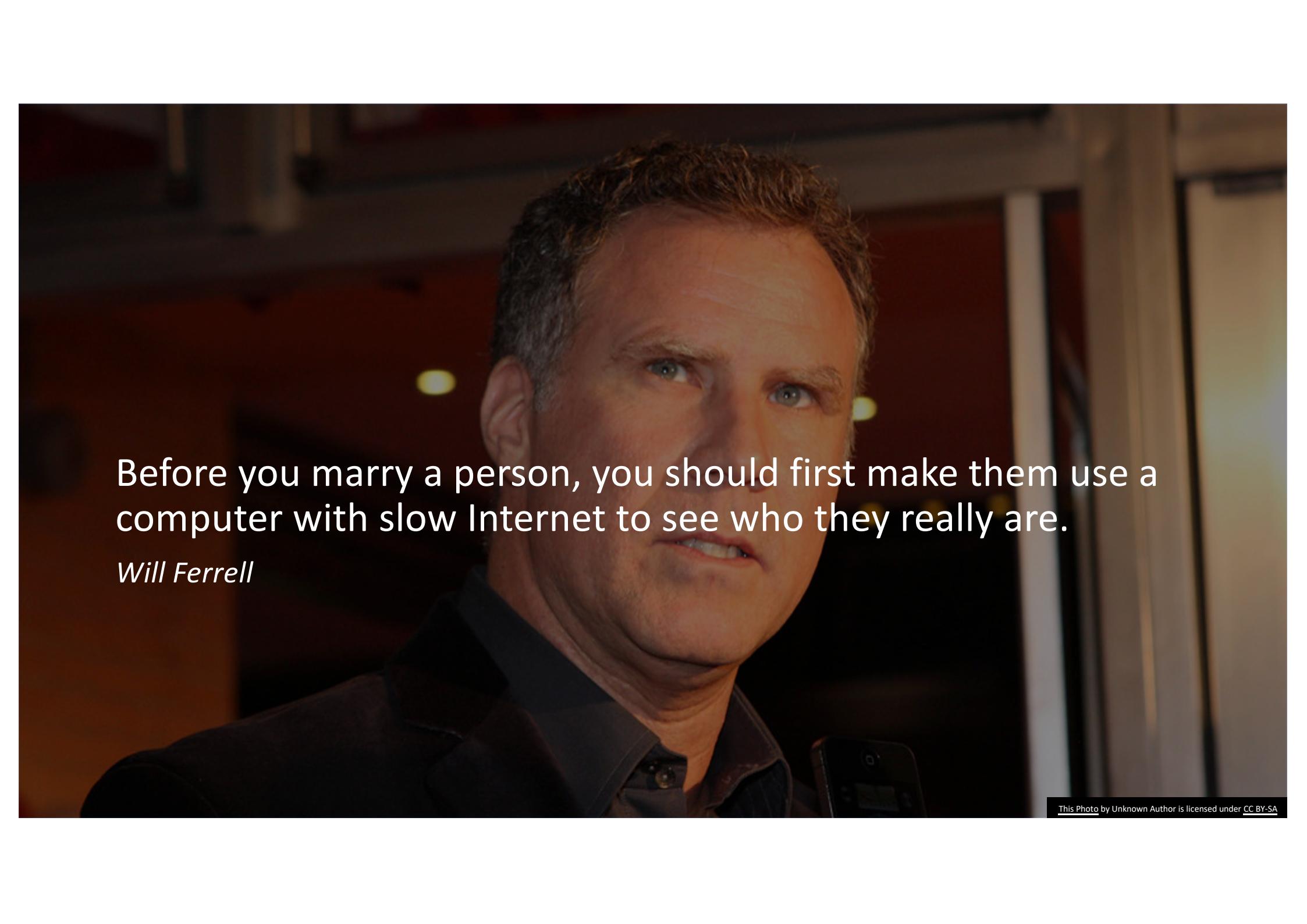
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Challenge



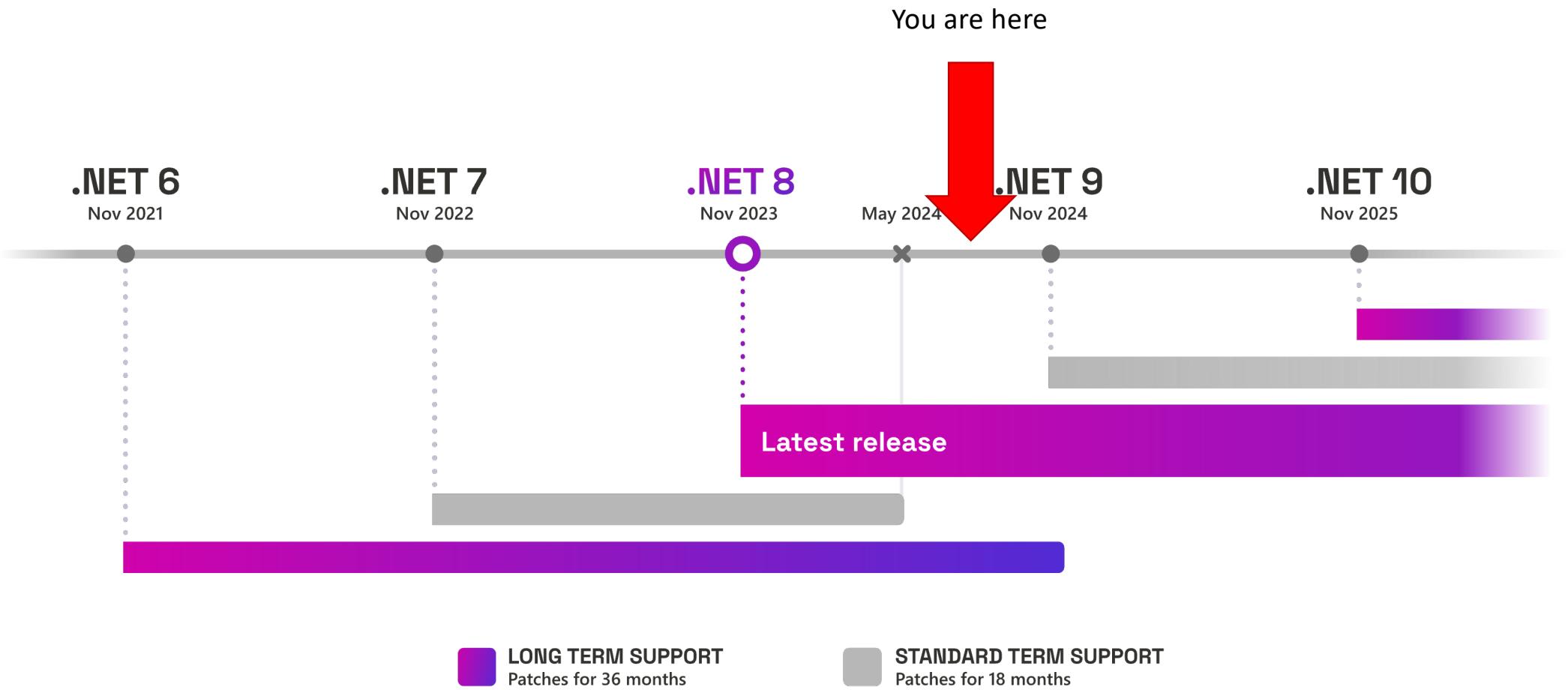
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Before you marry a person, you should first make them use a computer with slow Internet to see who they really are.

Will Ferrell

OFFLINE



<https://dotnet.microsoft.com/en-us/platform/support/policy/dotnet-core>

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.NET 9 Preview 7 is now available!



.NET Team

August 15th, 2024 |  8

It's a great time to check out the latest .NET 9 Preview! We just shipped our **seventh** preview release, adding to some major enhancements across the .NET Runtime, SDK, libraries, C#, ASP.NET Core, Blazor, and .NET MAUI. Check out the full release notes linked below and get started today.

<https://devblogs.microsoft.com/dotnet/dotnet-9-preview-7/>

[Download .NET 9 Preview 7](#)

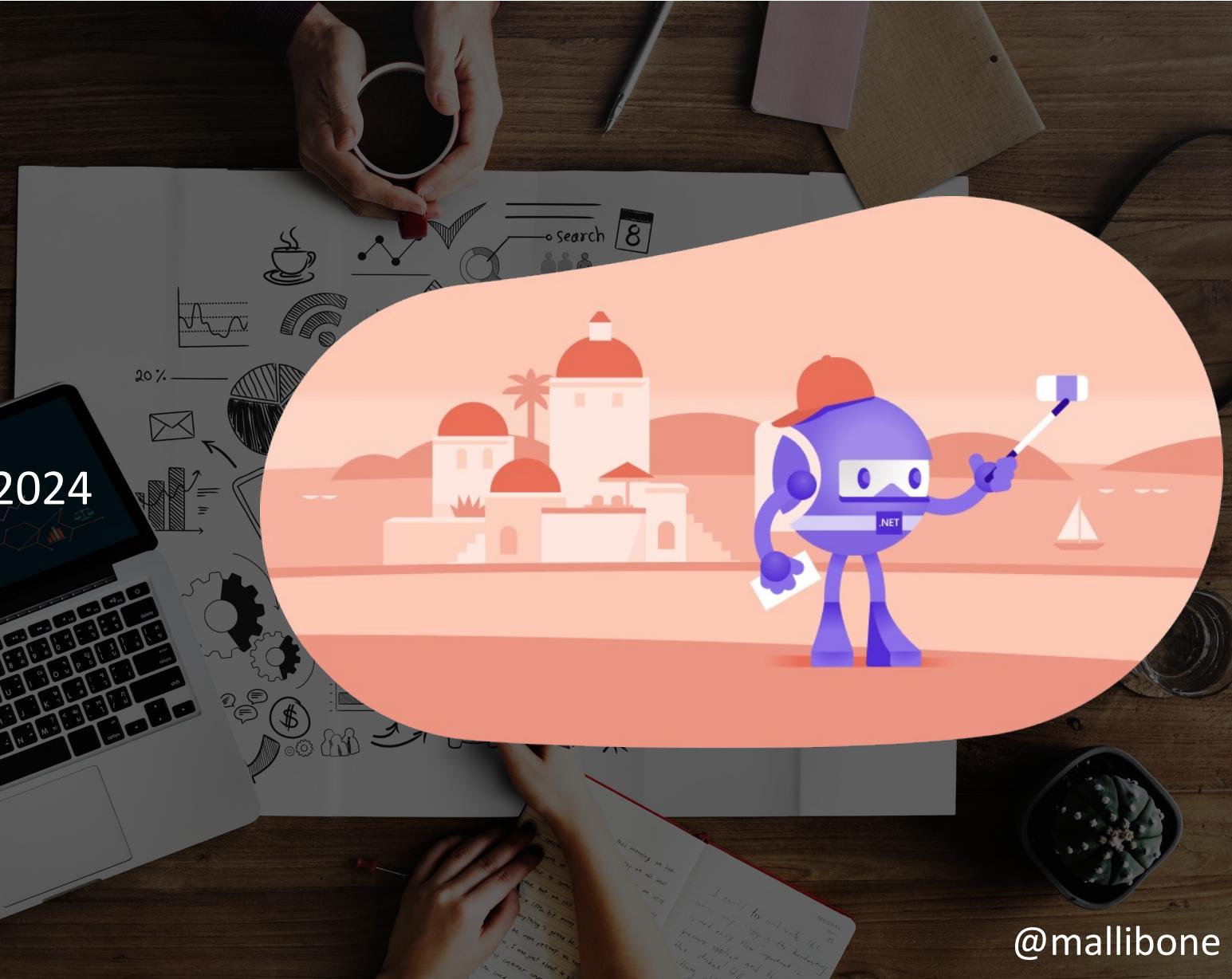
- [Customize Kestrel named pipe endpoints](#)
- [Improved Kestrel connection metrics](#)
- [Opt-out of HTTP metrics on certain endpoints and requests](#)
- [ExceptionHandlerMiddleware option to choose the status code based on the exception](#)
- Full [release notes](#)

.NET MAUI

- [Introduction of HybridWebView](#)
- [New TitleBar Control and Window.TitleBar for Windows](#)
- [CollectionView & CarouselView improvements with a new opt-in handler for iOS and Mac Catalyst](#)
- [Ability to bring a Window to the foreground with ActivateWindow](#)
- [BackButtonBehavior OneWay binding mode](#)
- [BlazorWebView backward compatibility host address](#)
- [Native Embedding improvements](#)
- [MainPage is Obsolete](#)
- [New Handler Disconnect Policy](#)
- [New ProcessTerminated event on WebView Control](#)
- [New lifecycle methods for remote notifications on iOS & Mac Catalyst](#)
- [Xcode Sync for CLI and Visual Studio Code](#)
- Full [release notes](#)

.NET 9

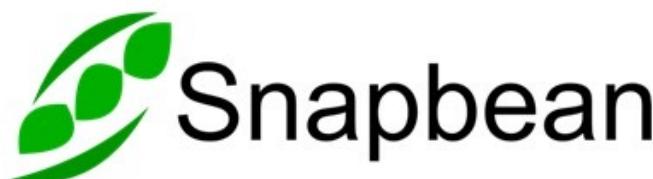
Coming November 2024



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OFFERING
SOLUTIONS
SOFTWARE

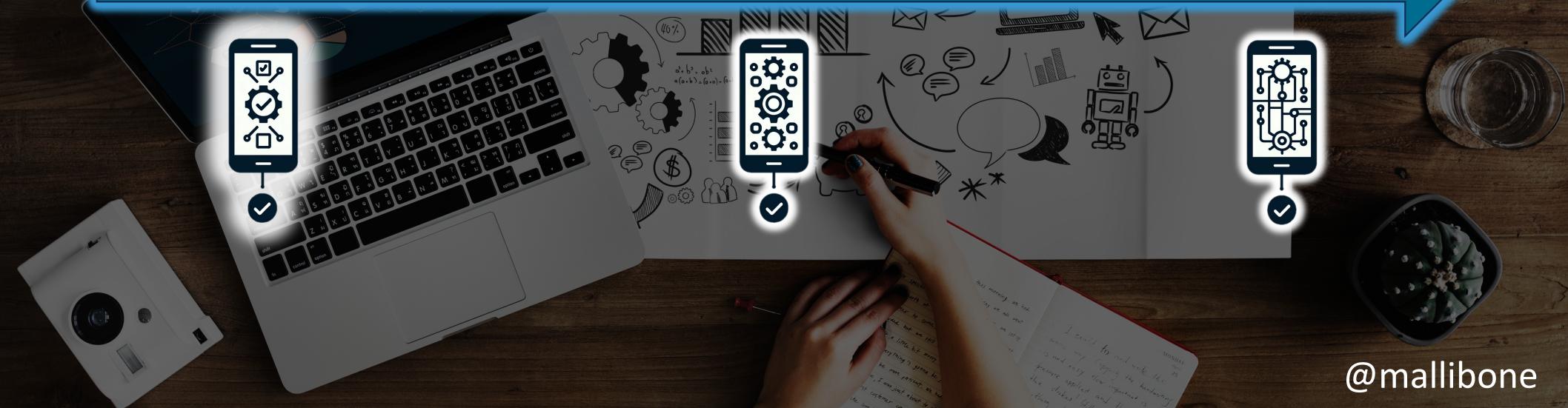


OFFLINE

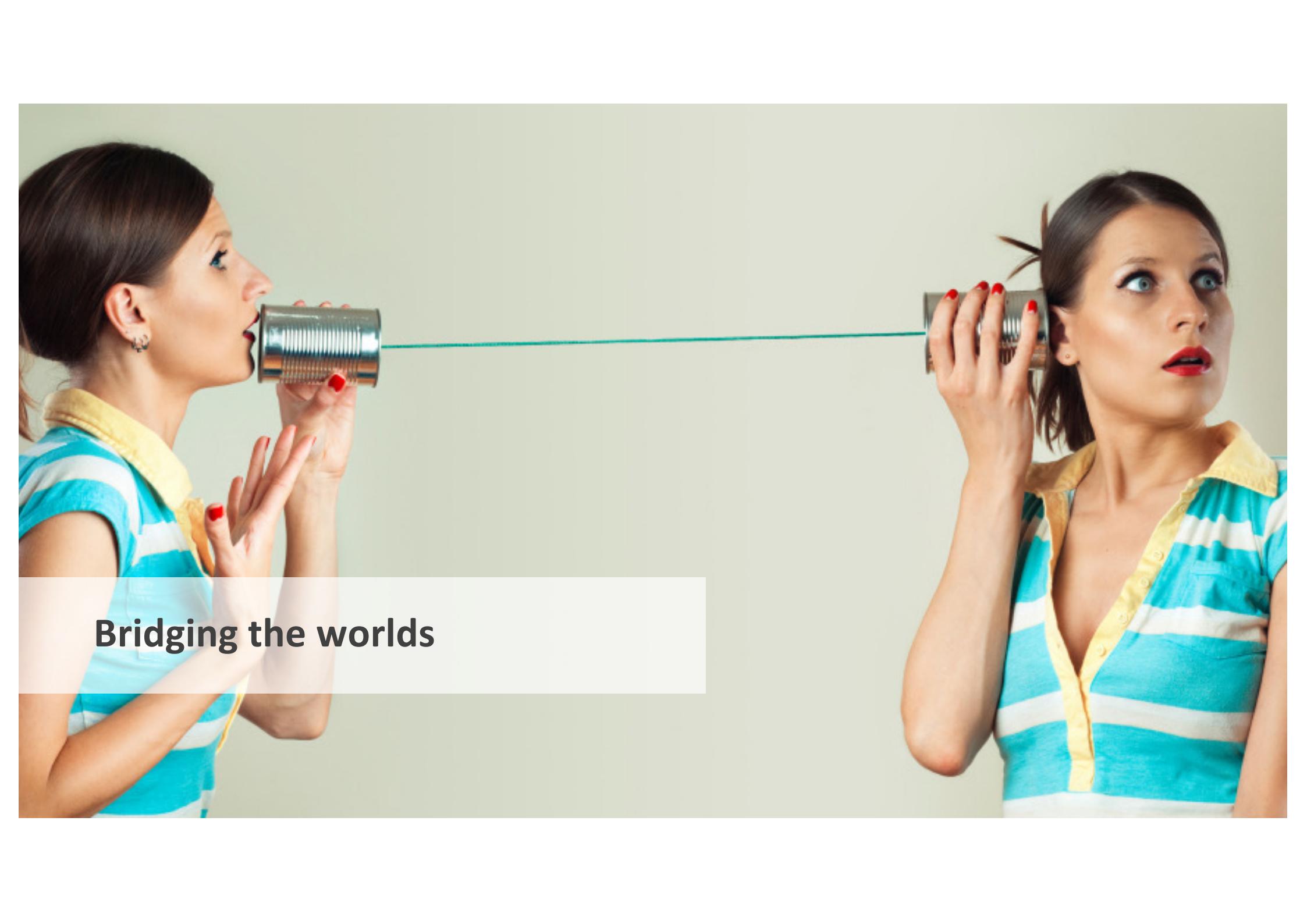
Hybrid continuum



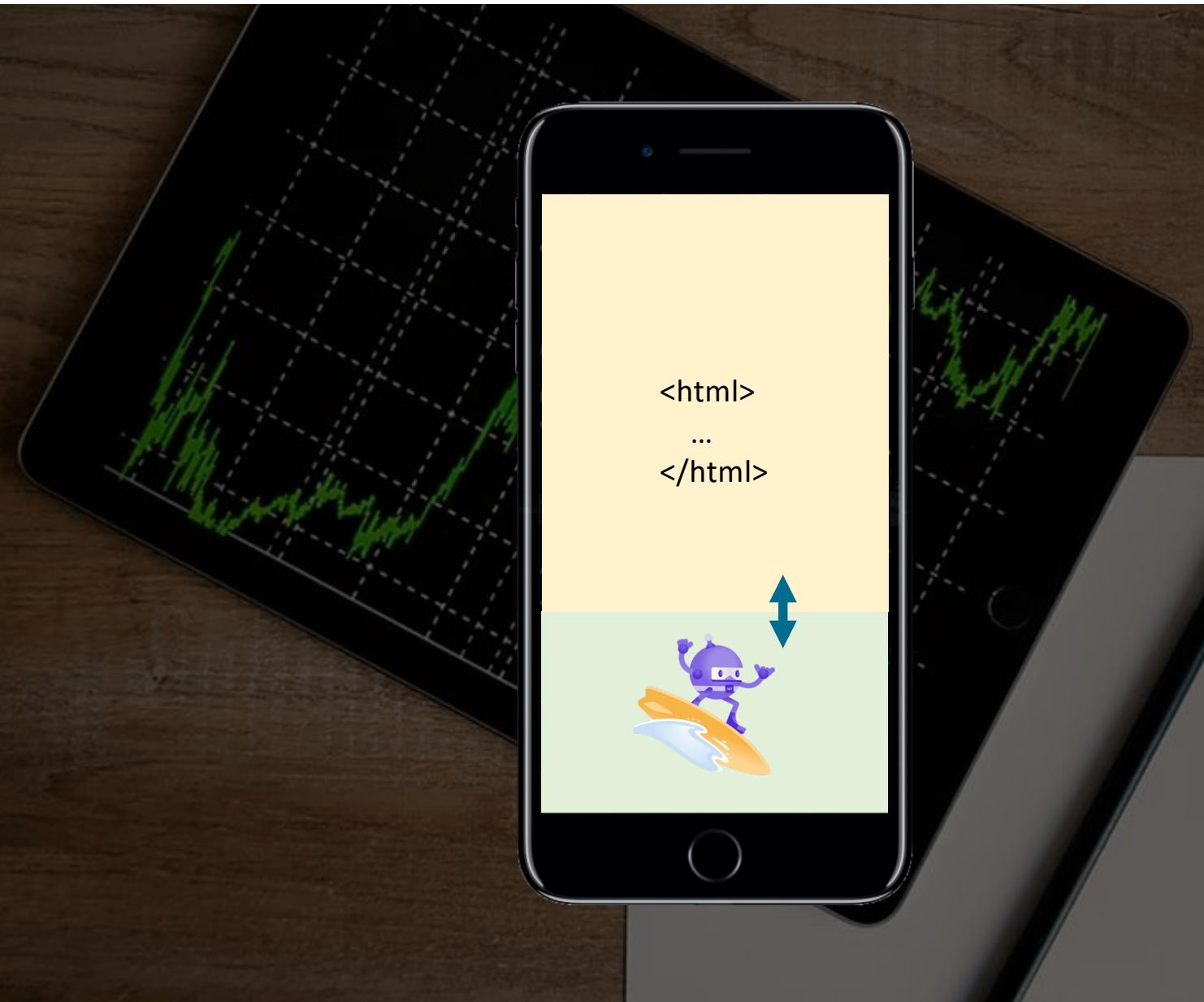
Hybrid continuum



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A photograph of a woman in a blue and white striped shirt using a tin can telephone to communicate with another woman across a room. The two women are facing each other, holding the cans to their ears. A thin green line connects the two cans, representing the communication link.

Bridging the worlds



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File Edit View Git Project Build Debug XML Test Analyze Tools Extensions Window Help Search **MauiApp1**

Live Share

MauiApp1.csproj

```
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <TargetFrameworks>net6.0-android;net6.0-ios;net6.0-maccatalyst</TargetFrameworks>
    <TargetFrameworks Condition="\"$([MSBuild]::IsOSPlatform('windows'))\">$([TargetFrameworks]);net6.0-windows10.0.19041.0</TargetFrameworks>
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    <OutputType>Exe</OutputType>
    <RootNamespace>MauiApp1</RootNamespace>
    <UseMaui>true</UseMaui>
    <SingleProject>true</SingleProject>
    <ImplicitUsings>enable</ImplicitUsings>

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    <!-- App Identifier -->
    <ApplicationId>com.companyname.mauiapp1</ApplicationId>
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    <MauiImage Include="Resources\Images\*" />
    <MauiImage Update="Resources\Images\dotnet_bot.svg" BaseSize="168,208" />

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```

100 % No issues found Ln: 1 Ch: 1 TABS CRLF

Error List Output

Solution Explorer

Solution 'MauiApp1' (1 of 1 project)

- MauiApp1
 - Dependencies
 - Properties
 - Platforms
 - Android
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 - Tizen
 - Windows
 - Resources
 - App.xaml
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 - MainPage.xaml
 - MauiProgram.cs

Properties

XML Document

Misc

Encoding Unicode (UTF-8)

Output

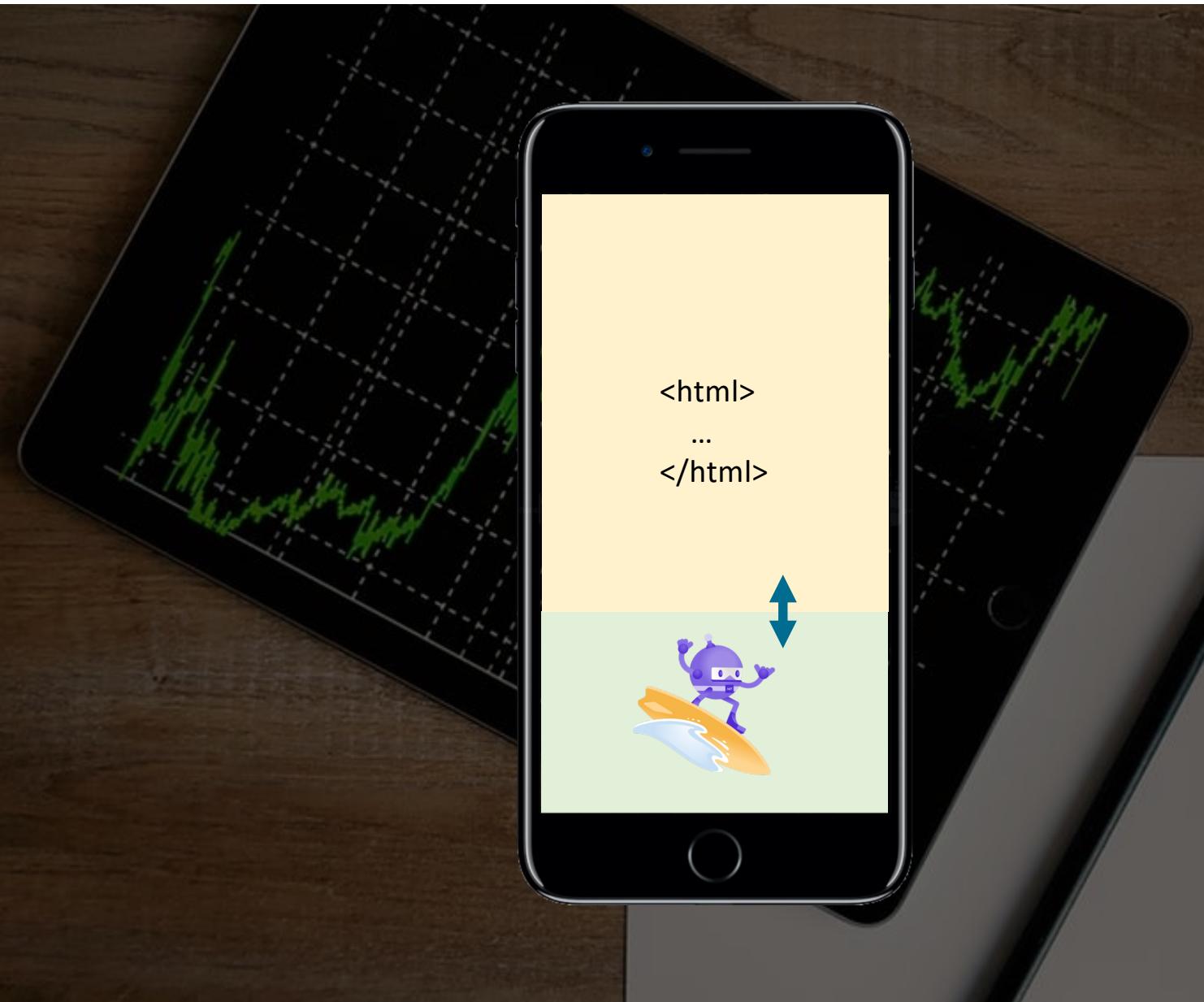
Schemas "C:\Program Files\Microsoft Visual Studio\2022\Community\SDK\NuGetFallbackFolder\Microsoft.Maui\6.5.0\ref\net6.0\Microsoft.Maui.dll"

Stylesheet

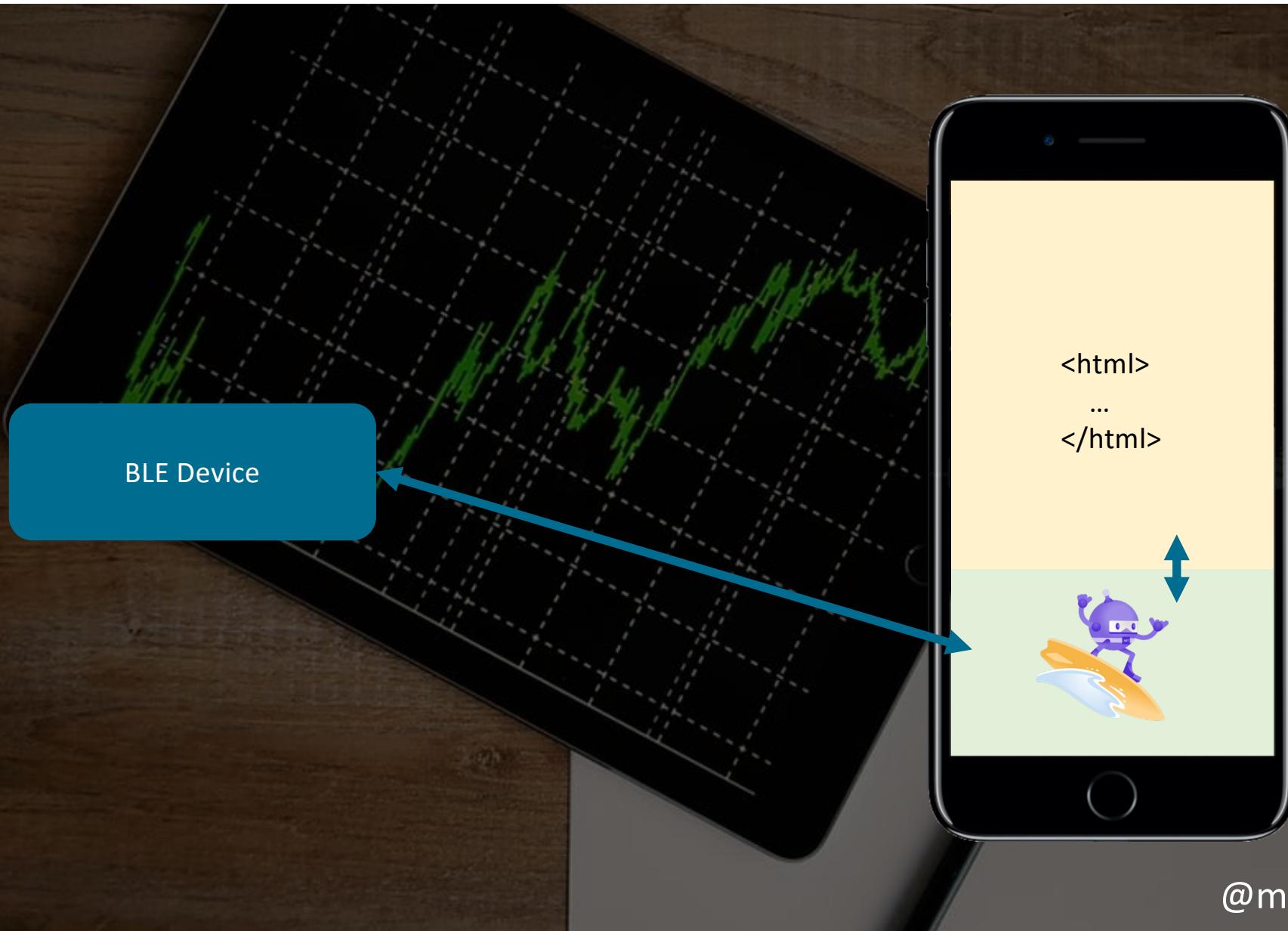
Encoding

Character encoding of the document.

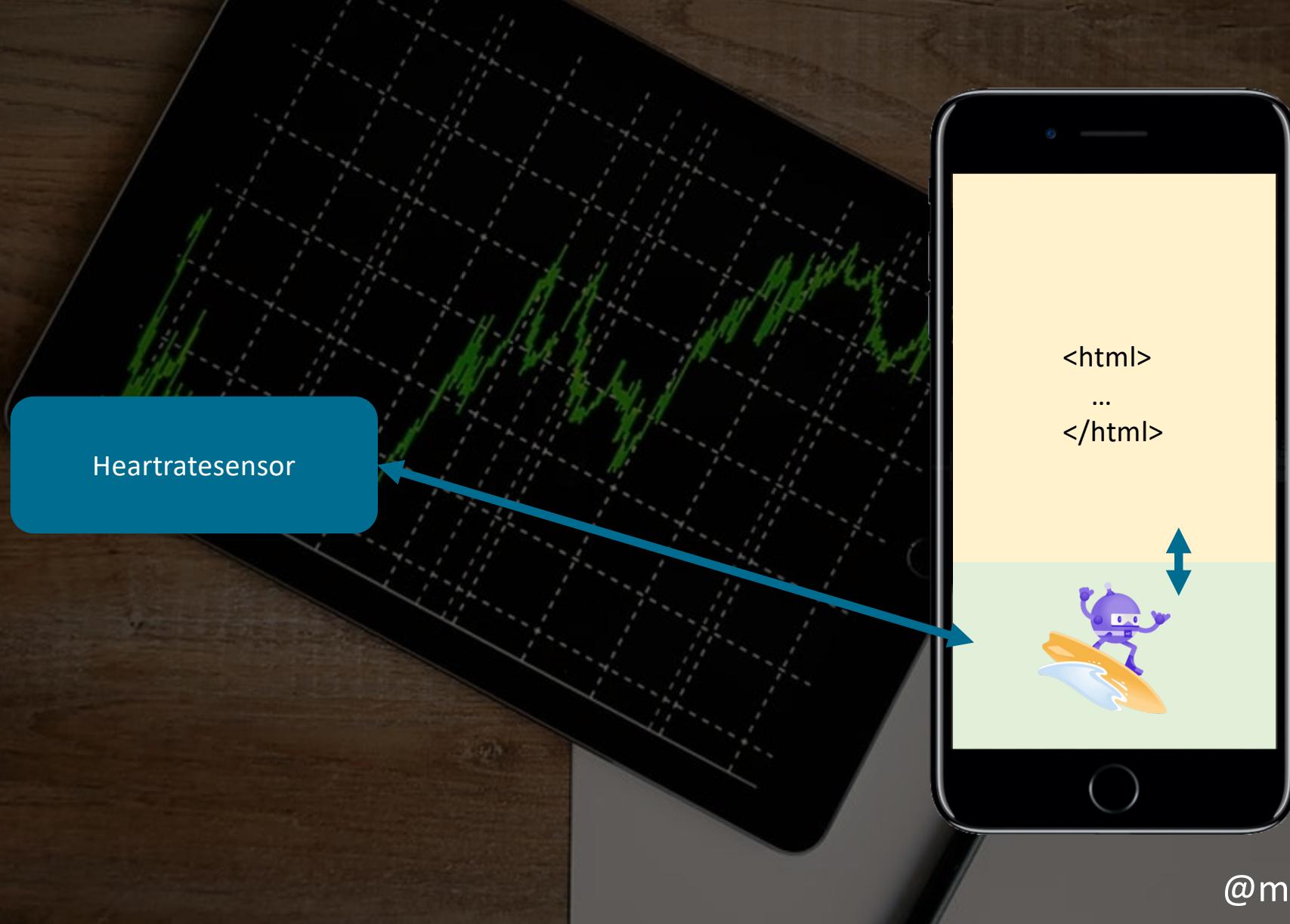
Add to Source Control Select Repository



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Heartratesensor

<html>
...
</html>



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File Edit View Git Project Build Debug XML Test Analyze Tools Extensions Window Help Search **MauiApp1**

Live Share

MauiApp1.csproj

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    <SupportedOSPlatformVersion Condition="\"$([MSBuild]::GetTargetPlatformIdentifier('$(TargetFramework)')\" == 'maccatalyst')\">14.0</SupportedOSPlatformVersion>
    <SupportedOSPlatformVersion Condition="\"$([MSBuild]::GetTargetPlatformIdentifier('$(TargetFramework)')\" == 'android')\">21.0</SupportedOSPlatformVersion>
    <SupportedOSPlatformVersion Condition="\"$([MSBuild]::GetTargetPlatformIdentifier('$(TargetFramework)')\" == 'windows')\">10.0.17763.0</SupportedOSPlatformVersion>
    <TargetPlatformMinVersion Condition="\"$([MSBuild]::GetTargetPlatformIdentifier('$(TargetFramework)')\" == 'windows')\">10.0.17763.0</TargetPlatformMinVersion>
    <SupportedOSPlatformVersion Condition="\"$([MSBuild]::GetTargetPlatformIdentifier('$(TargetFramework)')\" == 'tizen')\">6.5</SupportedOSPlatformVersion>
  </PropertyGroup>

  <ItemGroup>
    <!-- App Icon -->
    <MauiIcon Include="Resources\Icon\appicon.svg" ForegroundFile="Resources\Icon\appiconfg.svg" Color="#512BD4" />

    <!-- Splash Screen -->
    <MauiSplashScreen Include="Resources\Splash\splash.svg" Color="#512BD4" BaseSize="128,128" />

    <!-- Images -->
    <MauiImage Include="Resources\Images\*" />
    <MauiImage Update="Resources\Images\dotnet_bot.svg" BaseSize="168,208" />

    <!-- Custom Fonts -->
    <MauiFont Include="Resources\Fonts\*" />

    <!-- Raw Assets (also remove the "Resources\Raw" prefix) -->
    <MauiAsset Include="Resources\Raw\**" LogicalName="%(RecursiveDir)%(Filename)%(Extension)" />
  </ItemGroup>

```

100 % No issues found Ln: 1 Ch: 1 TABS CRLF

Error List Output

Ready Add to Source Control Select Repository

Solution Explorer

Search Solution Explorer (Ctrl+U)

Solution 'MauiApp1' (1 of 1 project)

MauiApp1

- Dependencies
- Properties
- Platforms
 - Android
 - iOS
 - MacCatalyst
 - Tizen
 - Windows
- Resources
- App.xaml
- AppShell.xaml
- MainPage.xaml
- MauiProgram.cs

Solution Explorer Git Changes

Properties

XML Document

Misc

Encoding Unicode (UTF-8)

Output

Schemas "C:\Program Files\Microsoft Visual Studio\2022\Community\SDK\NuGetFallbackFolder\Microsoft.Maui\6.0.0\ref\net6.0\Microsoft.Maui.dll"

Stylesheet

Encoding

Character encoding of the document.

Demo Retro

- HybridWebView currently in Preview 7
- Bundle your WebApp with your .NET MAUI App
- Use .NET MAUI and it's NuGet friends
- Use your favourite JS-Frontendframework

@mallibone

No Hotreload 😭



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dotnet / maui

Type ⌘ to search

Code Issues 3.5k Pull requests 219 Discussions Actions Projects 5 Wiki Security Insights

Service Releases - Early Access + General Availability
#20159 opened on Jan 25 by Redth
Open 1

Starting Community Triagers process in our repo
#23167 opened on Jun 20 by PureWeen
Open 3

Filters is:open label:area-controls-hybridwebview Labels 297 Milestones 10 New issue

Clear current search query, filters, and sorts

Author	Label	Projects	Milestones	Assignee	Sort
8 Open	8 Closed				
Change default HybridWebView local address from 0.0.0.0 to something safer	area-controls-hybridwebview s/triaged				
#24364 opened 5 days ago by Eilon	.NET 9 Planning				
[net9.0] Shift platforms specific code from HybridWebView to the handler using Command Mappers	area-controls-hybridwebview s/triaged Task			1	
#24269 opened 2 weeks ago by PureWeen	9.0-rc2				
HtmlWebViewSource support for upcoming HybridWebView control	area-controls-hybridwebview proposal/open			5	
#23908 opened last month by hansmbakker	.NET 9 Planning				
HybridWebView/WebView - Implement methods for playsinline, autoplay, and other playback configuration options	area-controls-hybridwebview proposal/open				
#23747 opened on Jul 21 by jonmdev	.NET 9 Planning				
HybridWebView: Clean up duplicate path manipulation/normalization code	area-controls-hybridwebview s/triaged t/bug				
#23668 opened on Jul 18 by Eilon	9.0-preview7				
HybridWebView: Support controlling F12 browser dev tools	area-controls-hybridwebview s/triaged t/enhancement			1	
#22305 opened on May 9 by Eilon	.NET 9 Planning				
HybridWebView: Add support for JavaScript to invoke C# methods	area-controls-hybridwebview s/triaged t/enhancement				
#22304 opened on May 9 by Eilon	.NET 9 Planning				
HybridWebView: Add support for C# to invoke JavaScript methods	area-controls-hybridwebview s/triaged t/enhancement				
#22303 opened on May 9 by Eilon	.NET 9 Planning				

Clear current search query, filters, and sorts

① 8 Open ✓ 8 Closed

Author ▾ Label ▾ Projects ▾ Milestones ▾ Assignee ▾ Sort ▾

④ Change default HybridWebView local address from 0.0.0.0 to something safer

Task

#24364 opened 5 days ago by Eilon ➔ .NET 9 Planning

④ [net9.0] Shift platforms specific code from HybridWebView to the handler using Command Mappers

Task

#24269 opened 2 weeks ago by PureWeen ➔ 9.0-rc2



1

④ HtmlWebViewSource support for upcoming HybridWebView control

#23908 opened last month by hansmbakker ➔ .NET 9 Planning

5

④ HybridWebView/WebView - Implement methods for playsinline, autoplay, and other playback configuration options

#23747 opened on Jul 21 by jonmdev ➔ .NET 9 Planning

④ HybridWebView: Clean up duplicate path manipulation/normalization code

t/bug

#23668 opened on Jul 18 by Eilon ➔ 9.0-preview7

④ HybridWebView: Support controlling F12 browser dev tools t/enhancement ☀

#22305 opened on May 9 by Eilon ➔ .NET 9 Planning



④ HybridWebView: Add support for JavaScript to invoke C# methods

t/enhancement ☀

#22304 opened on May 9 by Eilon ➔ .NET 9 Planning



④ HybridWebView: Add support for C# to invoke JavaScript methods

t/enhancement ☀

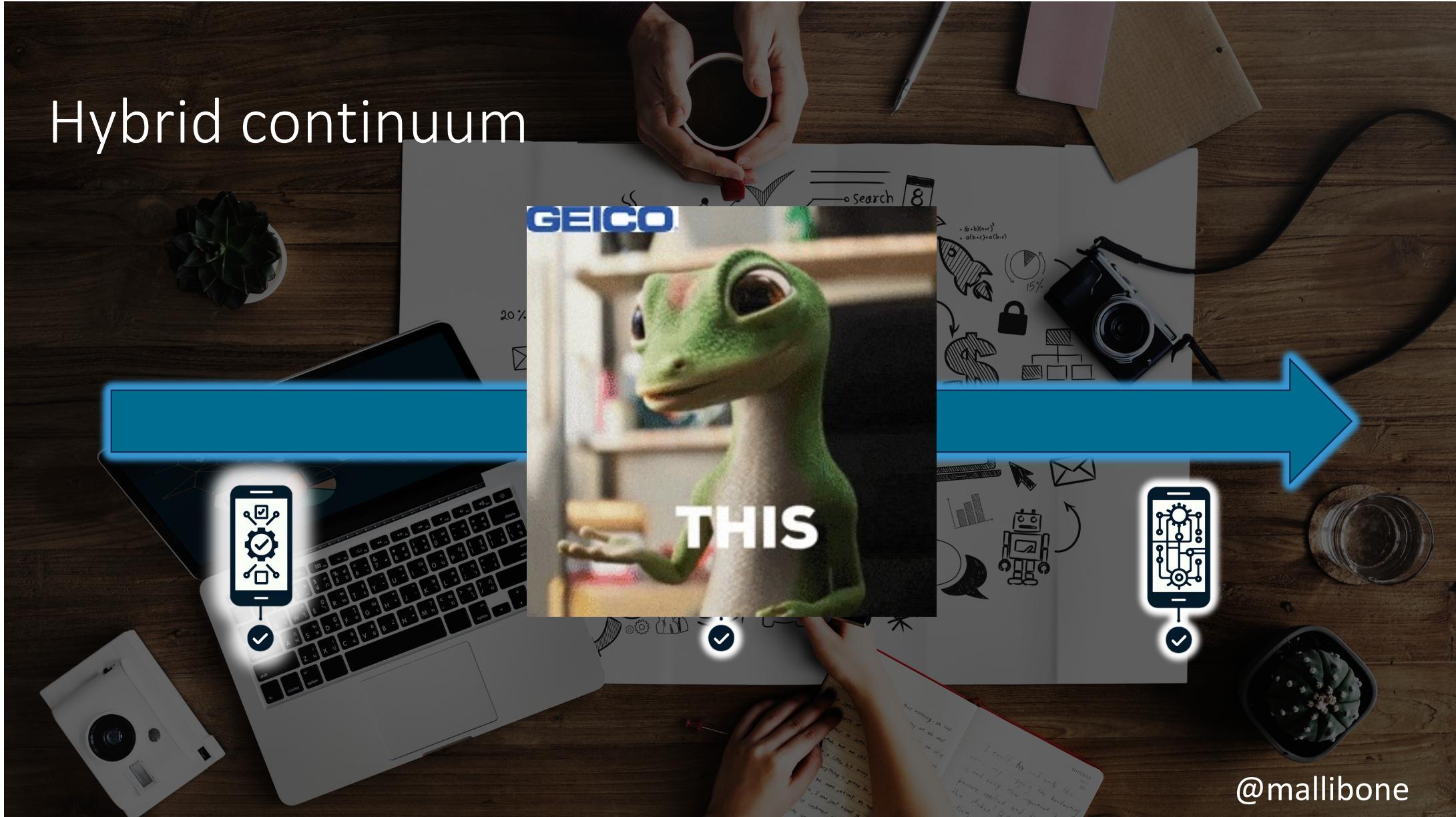
#22303 opened on May 9 by Eilon ➔ .NET 9 Planning



A photograph of a silver service bell with a glass dome resting on a wooden desk. In the background, a lamp and a book are visible.

Reality check

Hybrid continuum



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Choose the option that makes business sense and not because it is cool

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AND THEN WE JUST DEPLOY THE SAME APP

Dev

Marketing

EVERWHERE

imgflip.com

@mallibone

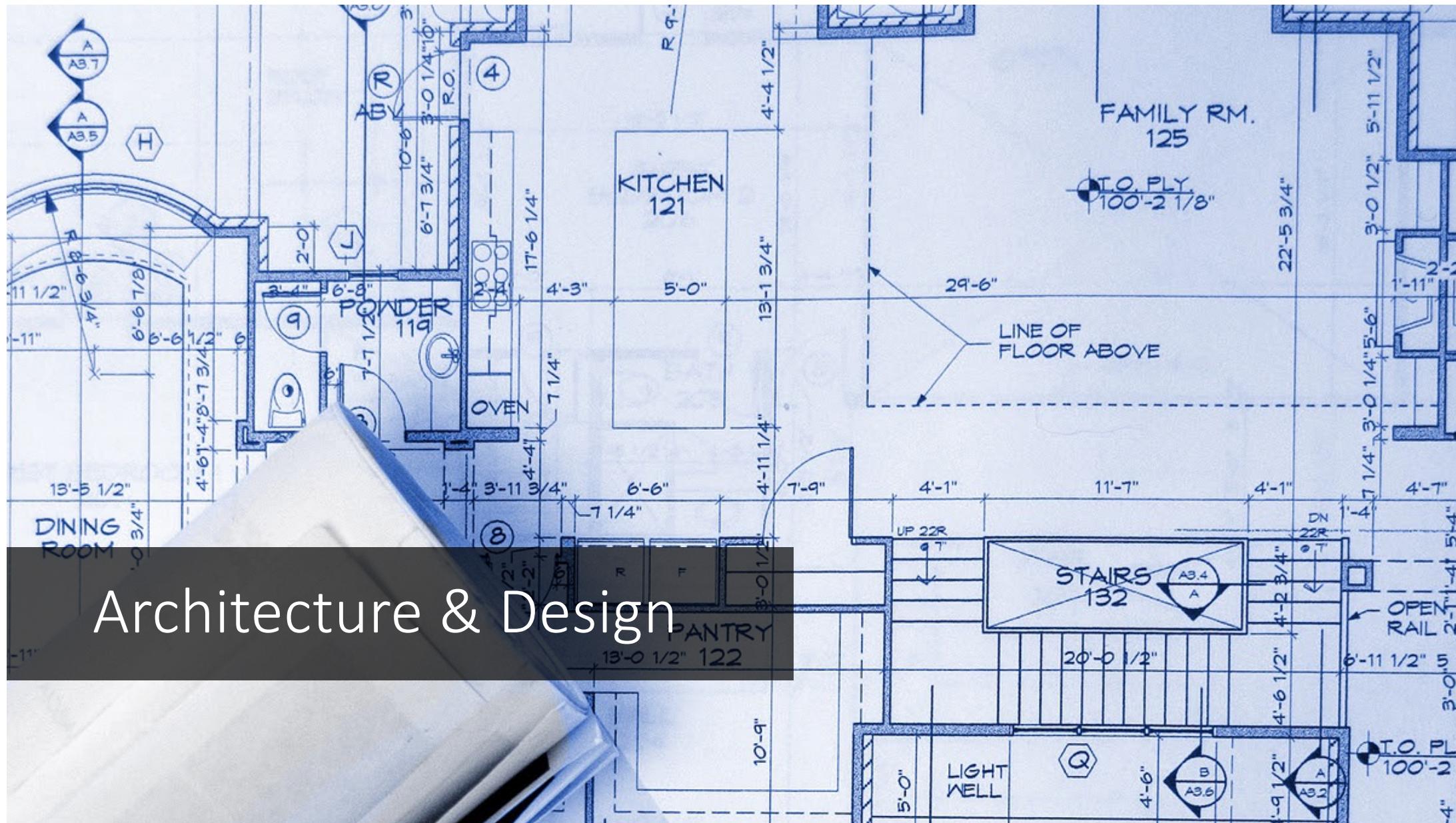


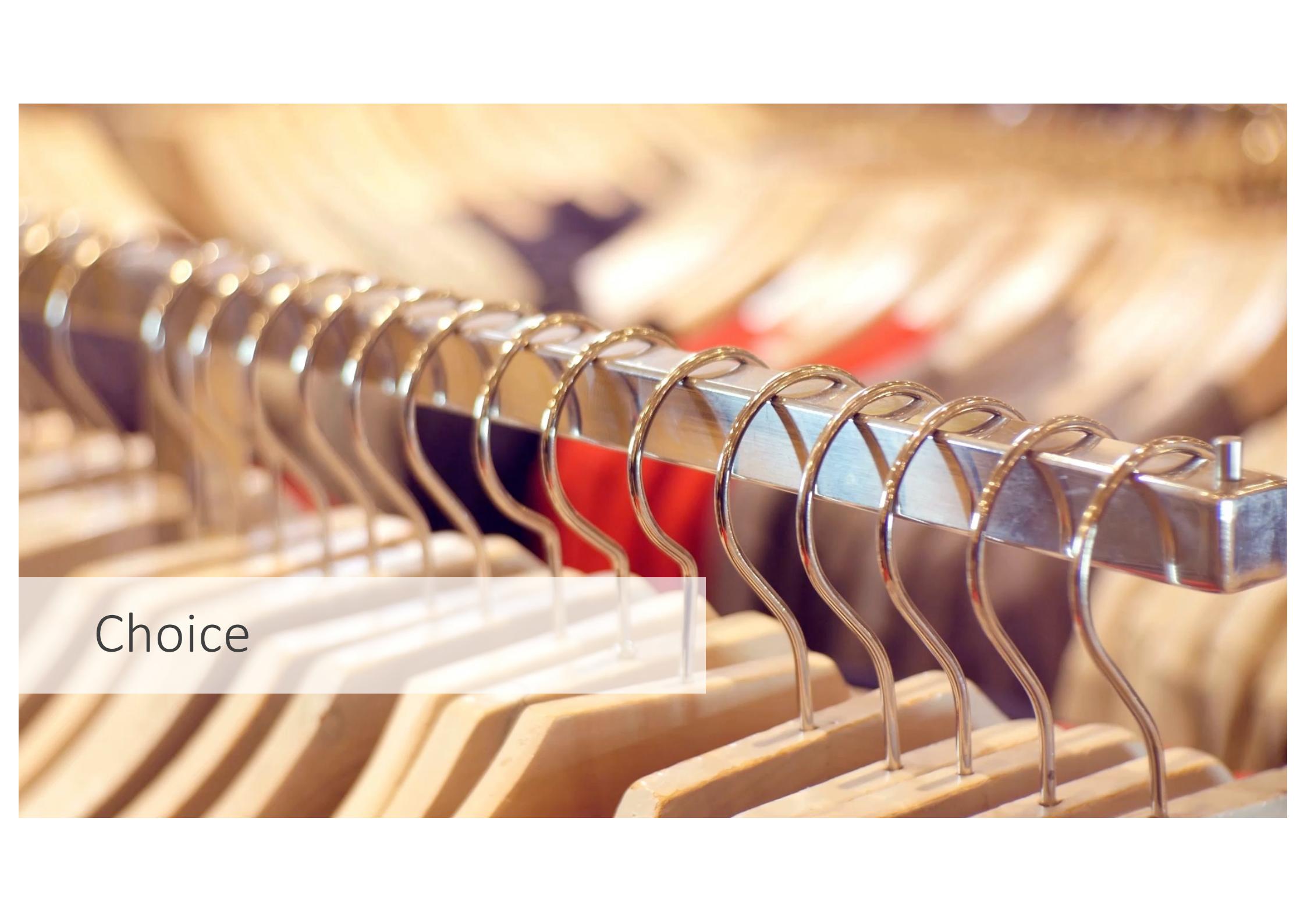
Multiplatform vs
Multiparadigm

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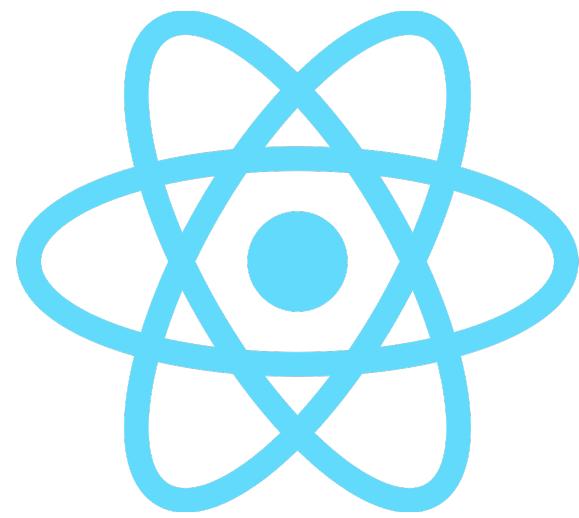
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Architecture & Design

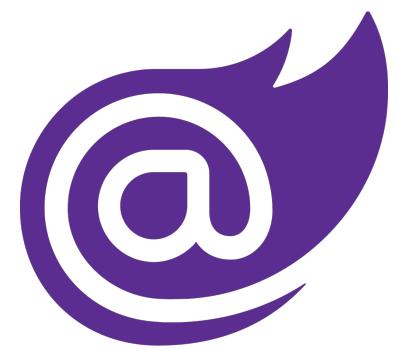
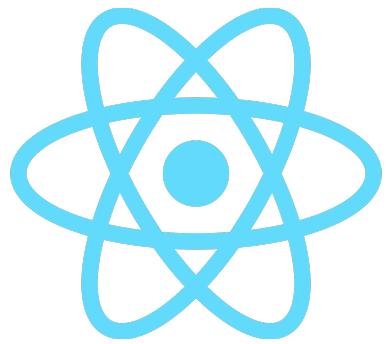




Choice



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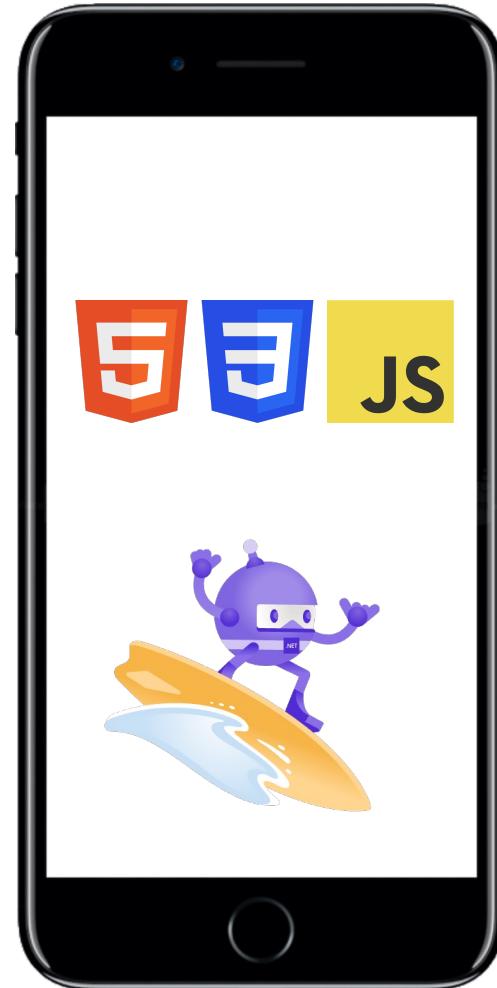
Takeaways



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Takeaways

- Bring your web apps to mobile using .NET MAUI
- Use your favourite Single-Page-Application framework
- HybridWebView makes working with JS-Hybrid apps easier



@mallibone

Thank you for your time!



Mark Allibone



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Rey Technology



<https://mallibone.com>



<https://nullpointers.io>



<https://github.com/dotnet/maui>



Scan me

