

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

Mark Allibone

Rey Technology

@mallibone

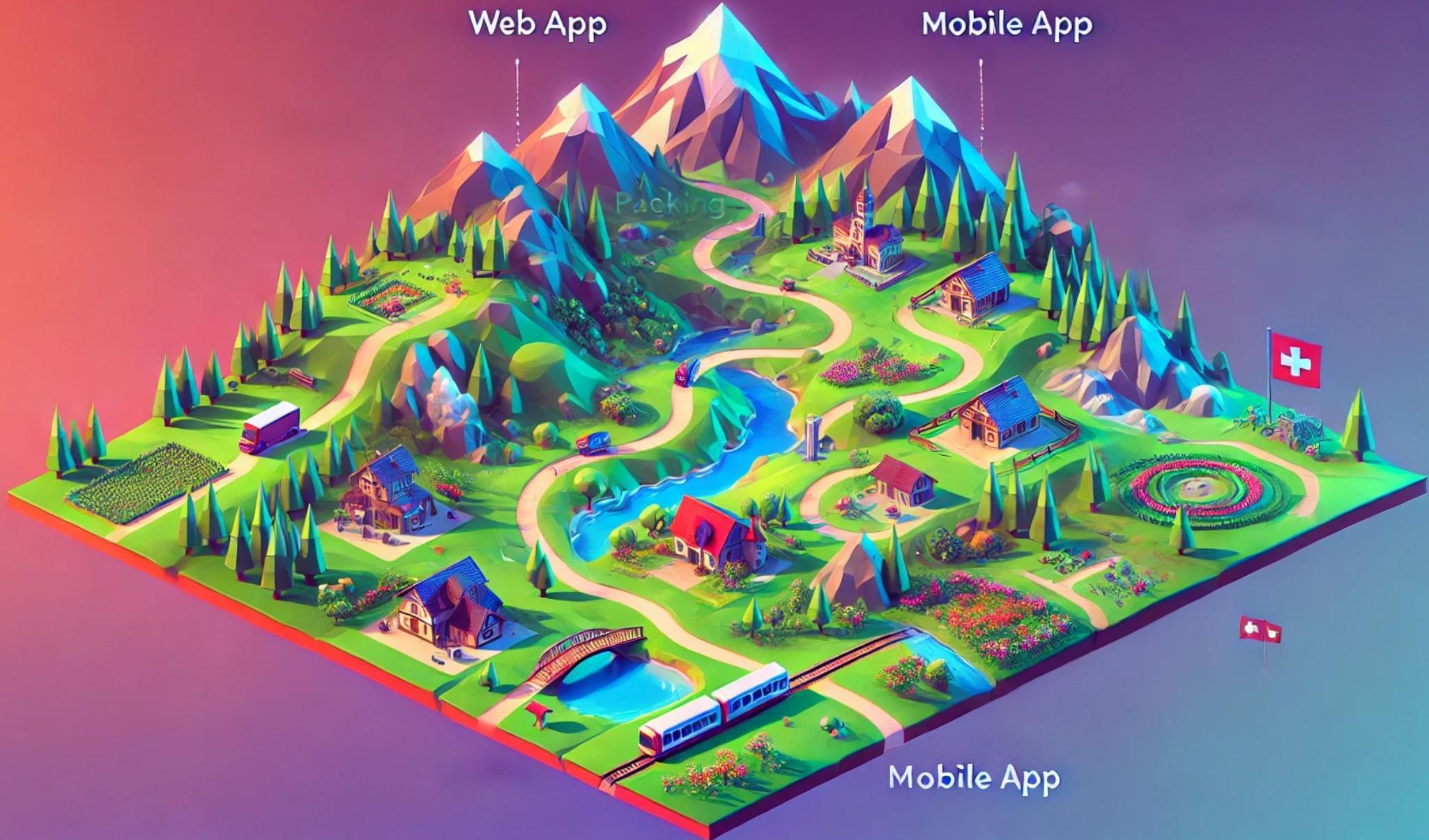
*Hello my name is Mark*

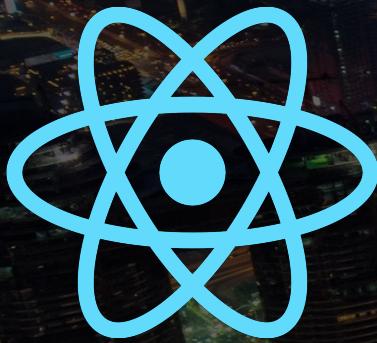
-  Mark Allibone
-  @mallibone
-  Rey Technology
-  <https://mallibone.com>
-  <https://nullpointers.io>



Web App

Mobile App





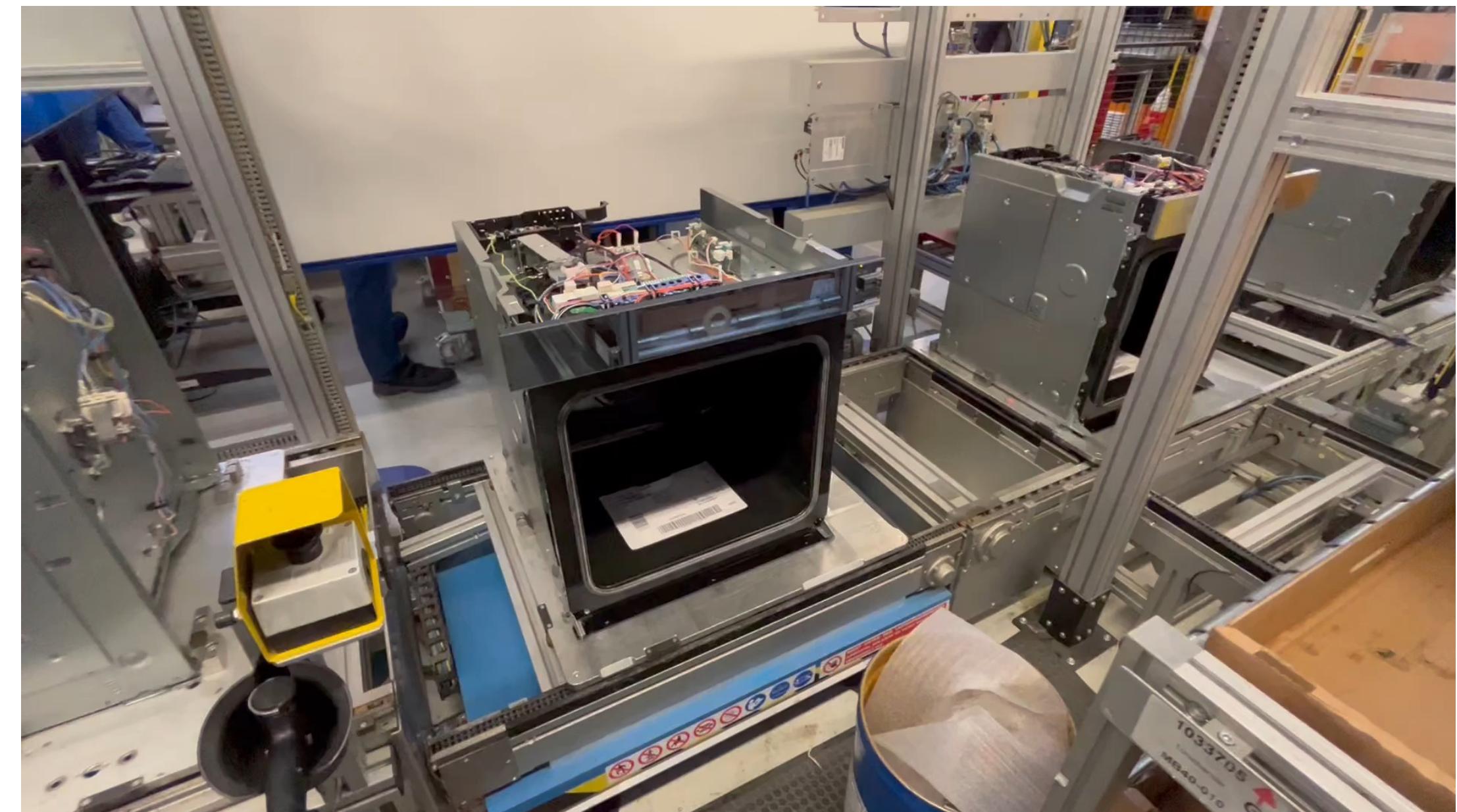
This Photo by Unknown Author is  
licensed under CC BY-SA



This Photo by Unknown Author is licensed under CC BY-SA-NC



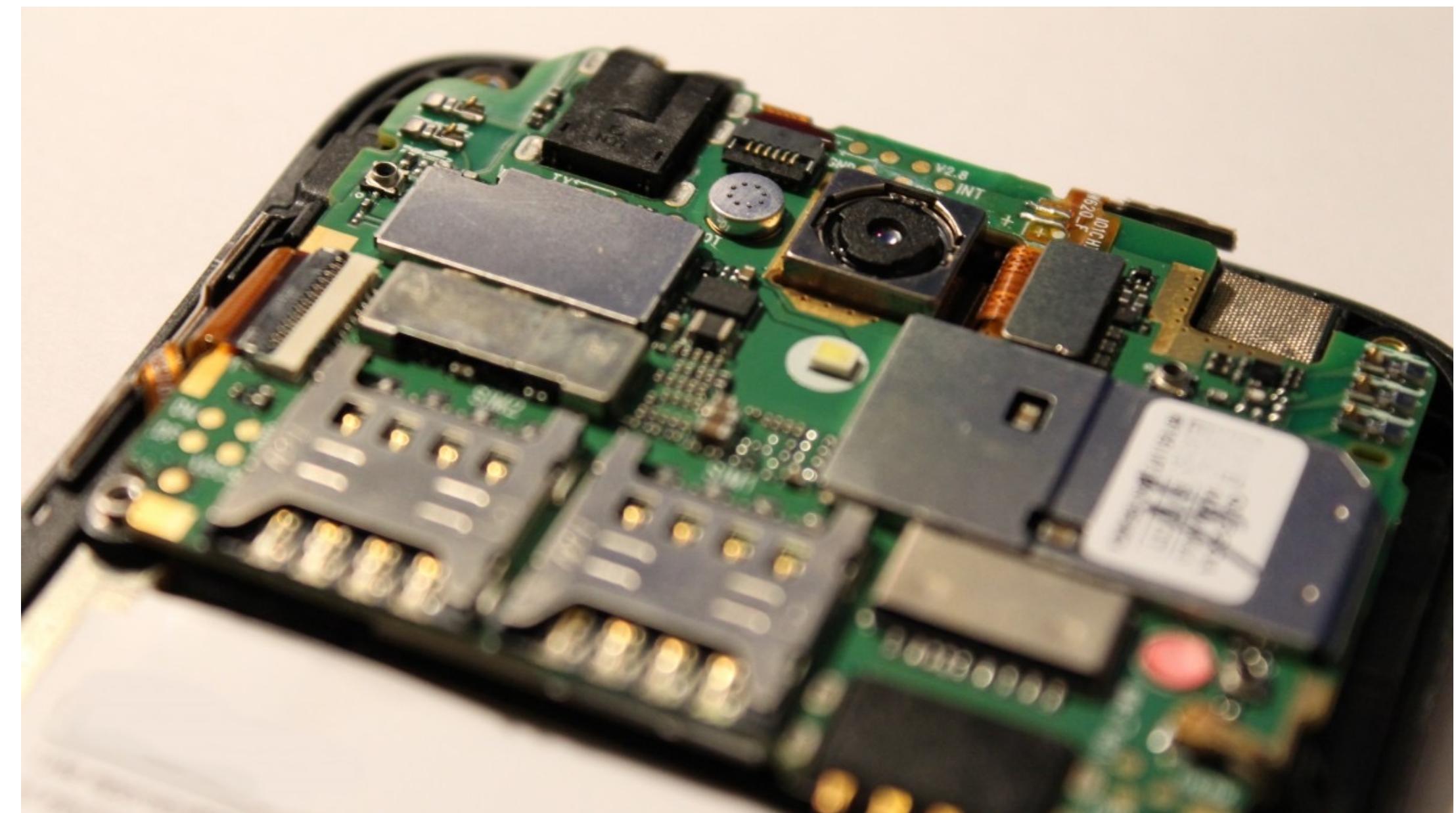
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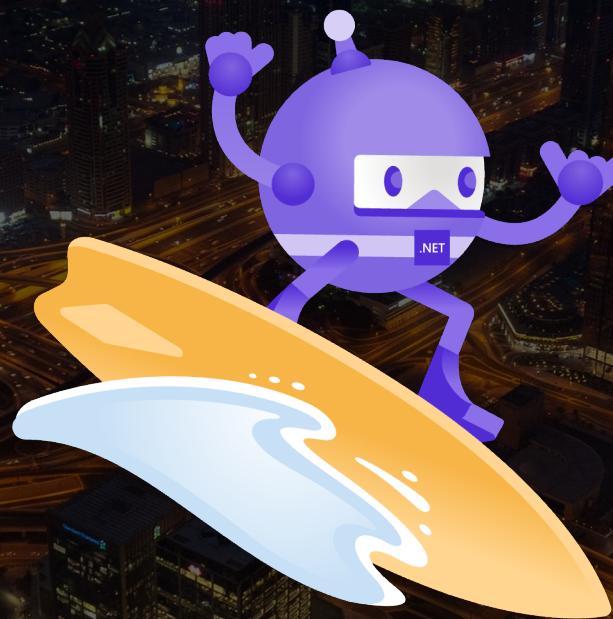




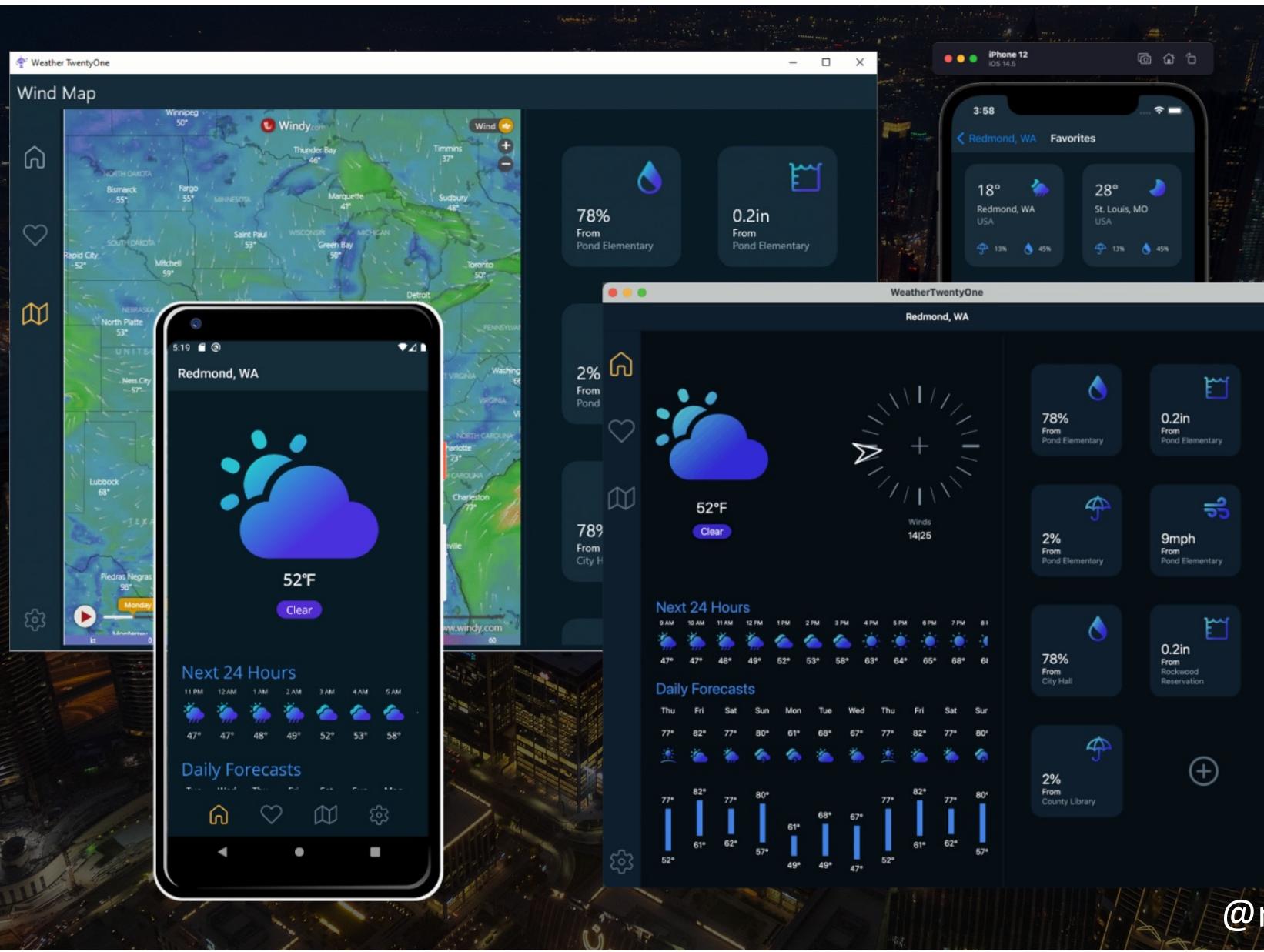
[This Photo](#) by Unknown Author is licensed under [CC BY-NC](#)

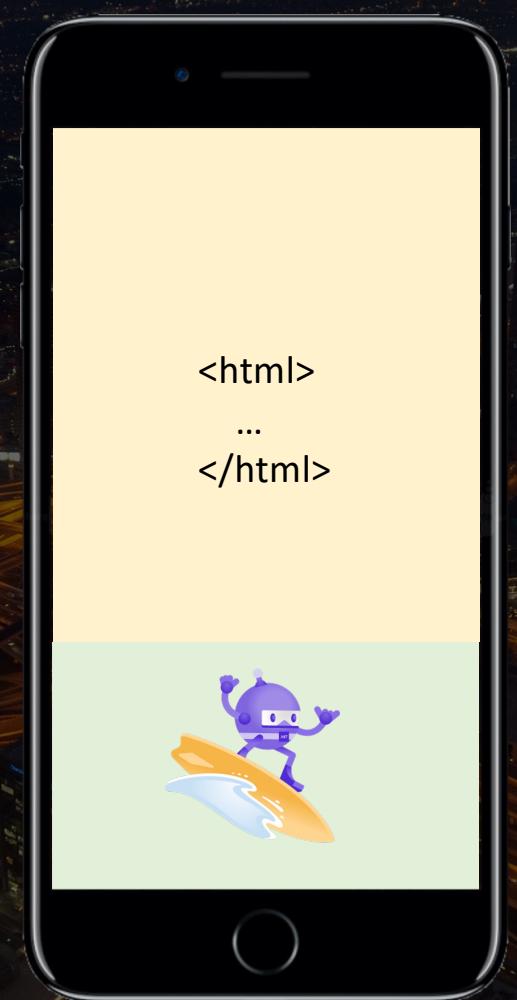
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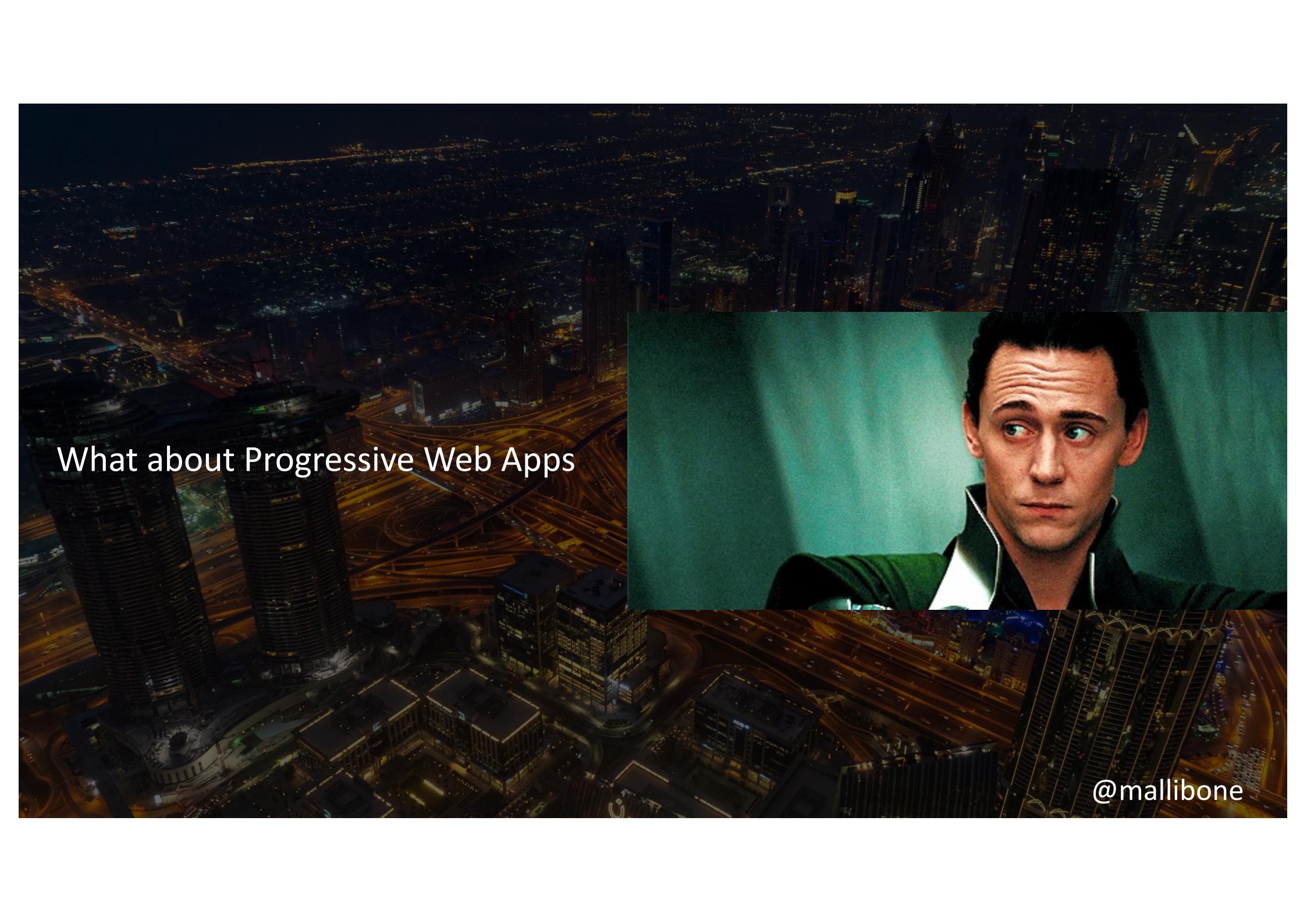




```
<html>
...
</html>
```



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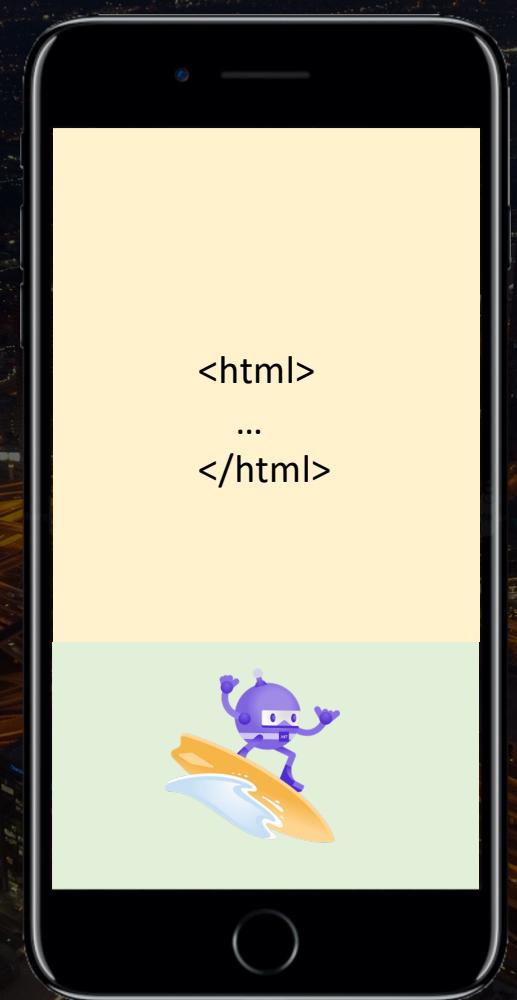
What about Progressive Web Apps



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



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**YEAH IF YOU COULD JUST  
SIMPLY TURN IT INTO A MOBILE APP**

**THAT WOULD BE GREAT**

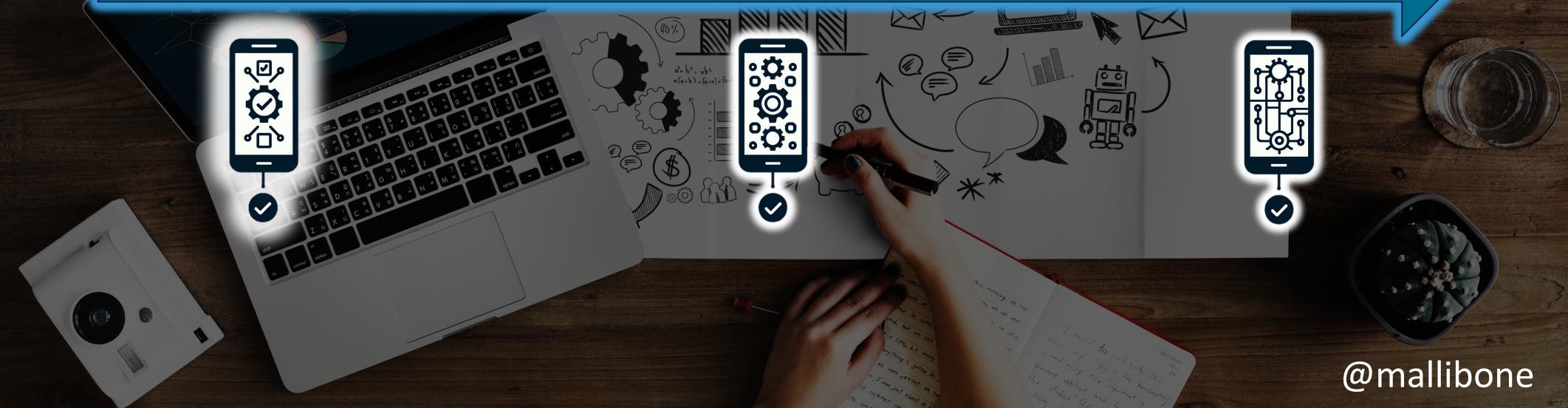
imgflip.com

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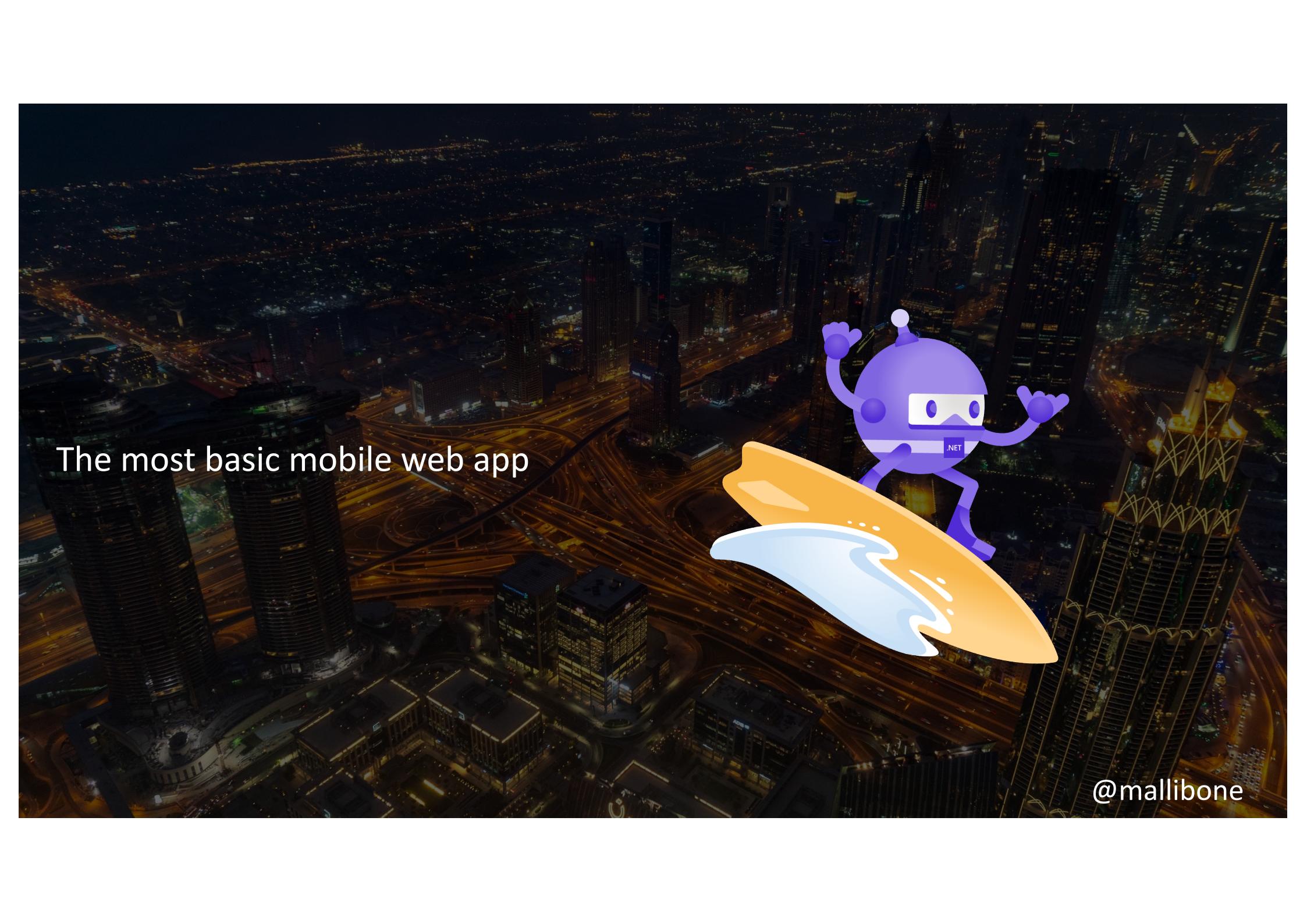
# Hybrid continuum



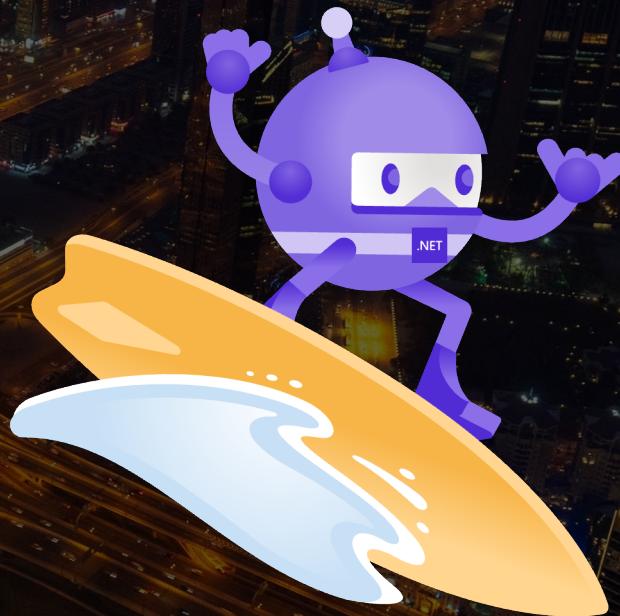
Hybrid continuum



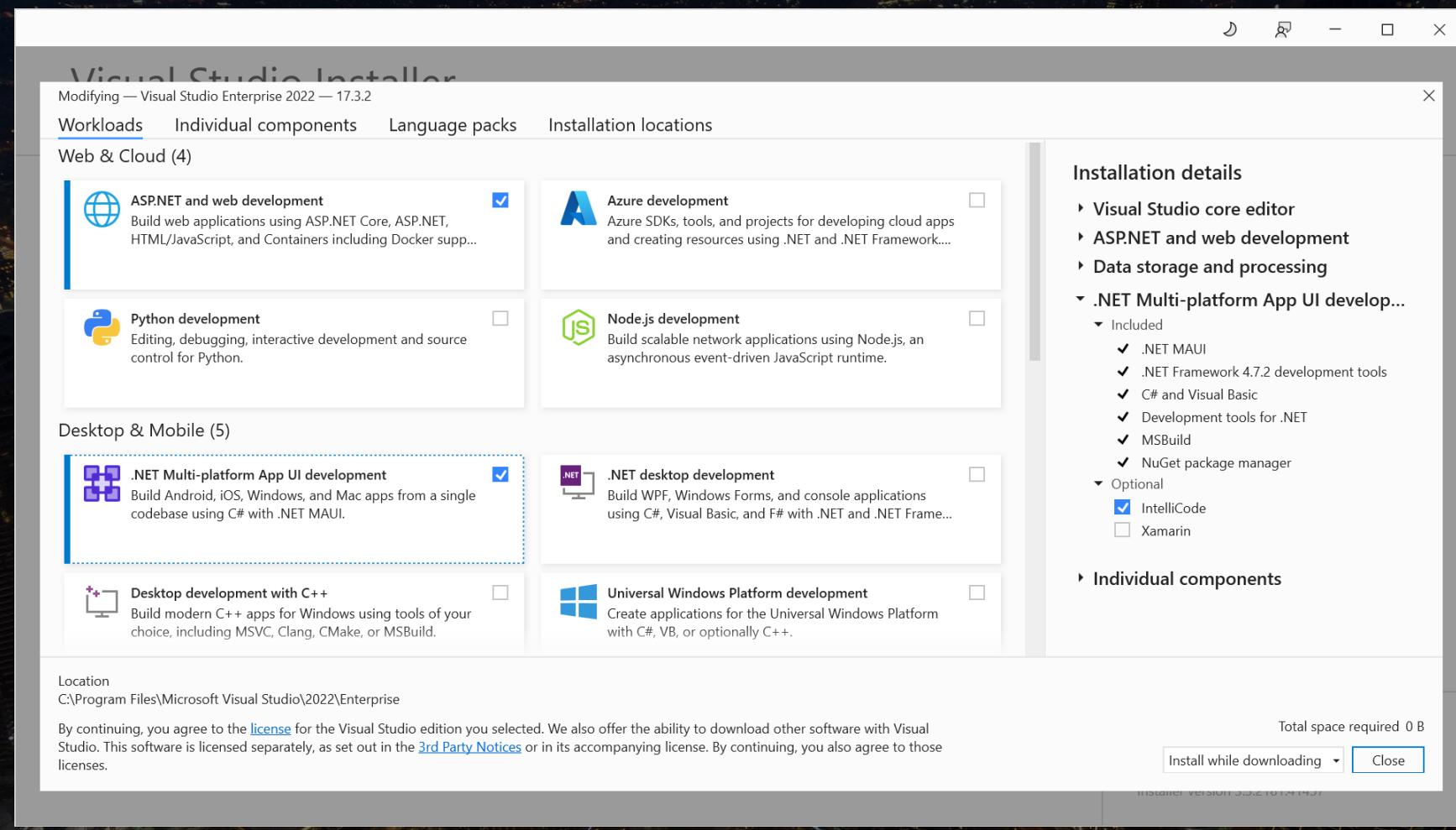
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The most basic mobile web app



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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

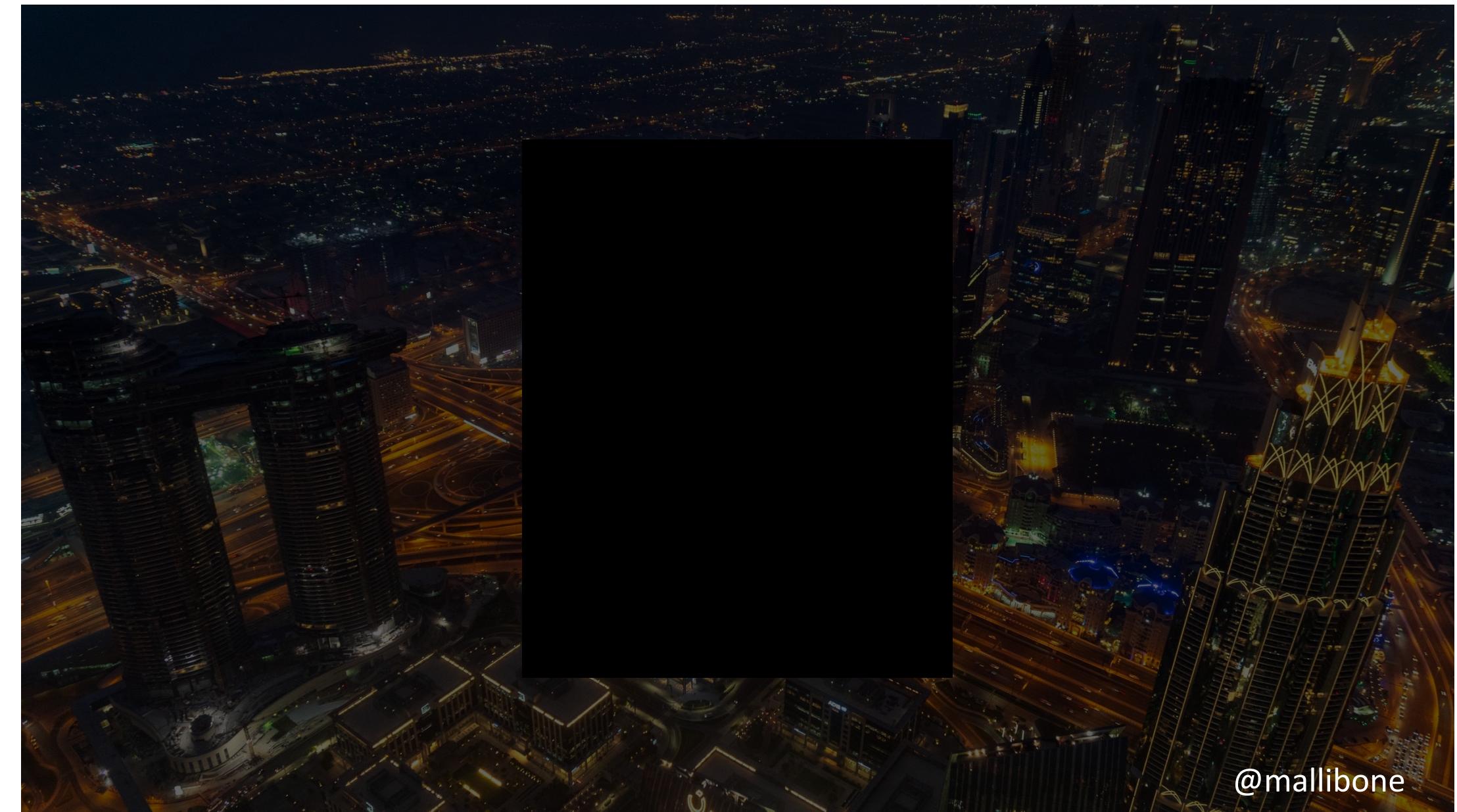
C:\Program Files\Microsoft Visual Studio\2022\Enterprise

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#   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#   Blazor   iOS   Mac Catalyst   macOS   MAUI  
Tizen   Windows
-  **.NET MAUI Class Library**  
A project for creating a .NET MAUI class library  
 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)')\" == '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
- Properties
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  - Windows
- Resources
- App.xaml
- AppShell.xaml
- MainPage.xaml
- C# MauiProgram.cs

Solution Explorer | Git Changes

Properties

XML Document

Misc

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

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    <OutputType>Exe</OutputType>
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    <SingleProject>true</SingleProject>
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    <!-- Display name -->
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    <ApplicationId>com.companyname.mauiapp1</ApplicationId>
    <ApplicationIdGuid>2128AE37-4BEC-46F8-B35E-B17F617BB30D</ApplicationIdGuid>

    <!-- Versions -->
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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 -->
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    <!-- 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\*" />

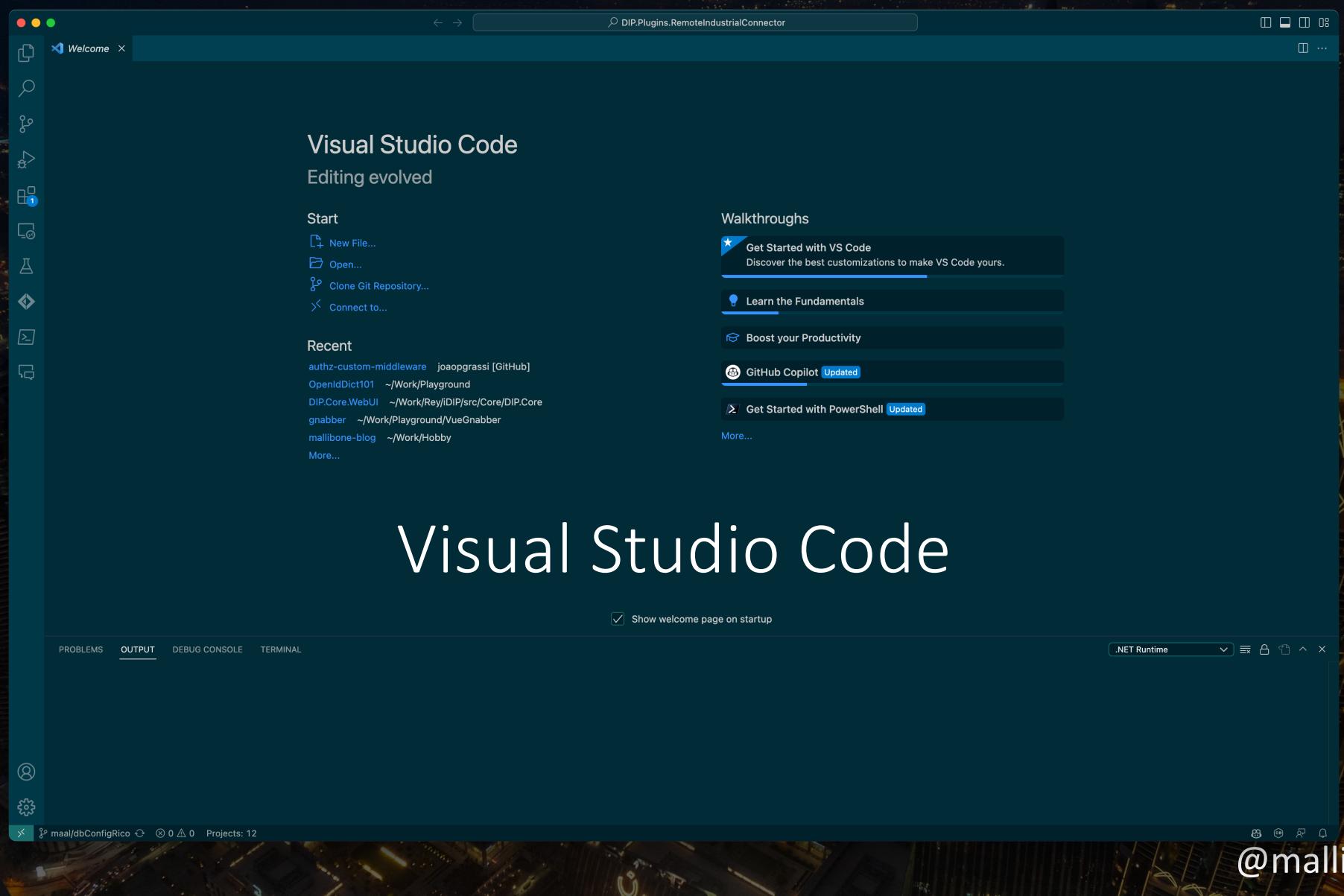
    <!-- Raw Assets (also remove the "Resources\Raw" prefix) -->
    <MauiAsset Include="Resources\Raw\**" LogicalName="%(RecursiveDir)%(Filename)%(Extension)" />
  </ItemGroup>

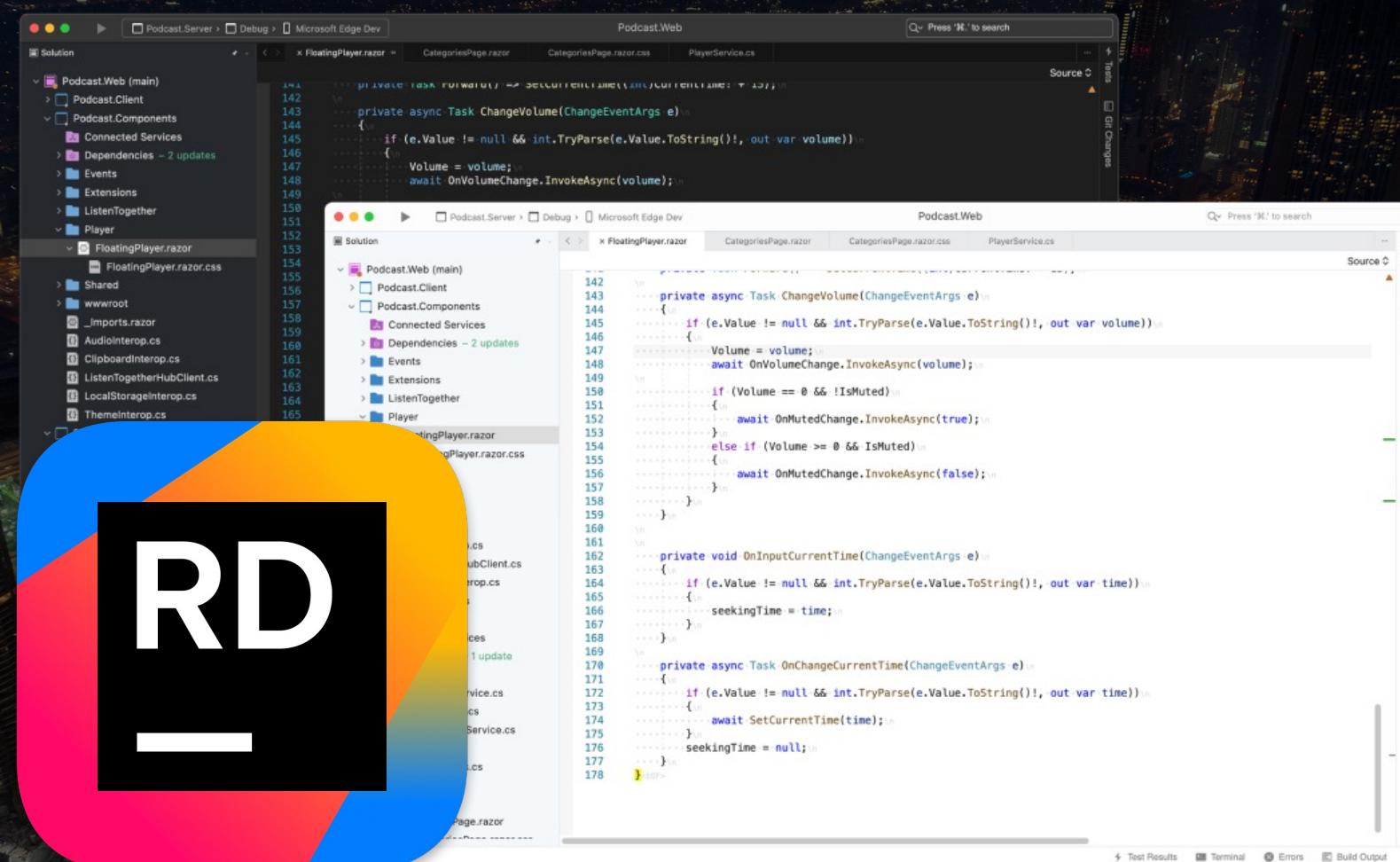
```

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

The screenshot shows two instances of Visual Studio for Mac running on a Mac OS X desktop. The background is a blurred night cityscape with illuminated skyscrapers.

The left instance of VS for Mac displays the solution structure for a .NET Core application named "Podcast.Server". The "Podcast.Web" project is selected. The code editor shows the "FloatingPlayer.razor" file, which contains C# code for a floating player component. The code includes methods like `ChangeVolume` and `OnInputCurrentTime`.

```
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;
    }
}
```

The right instance of VS for Mac also displays the "Podcast.Web" project. It shows the same "FloatingPlayer.razor" file with identical code. This indicates a comparison or a duplicate setup between the two instances.

Both instances of VS for Mac have their status bars visible at the bottom, showing tabs for "Test Results", "Terminal", "Errors", and "Build Output".

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imgflip.com

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# Hybrid continuum



Hybrid continuum



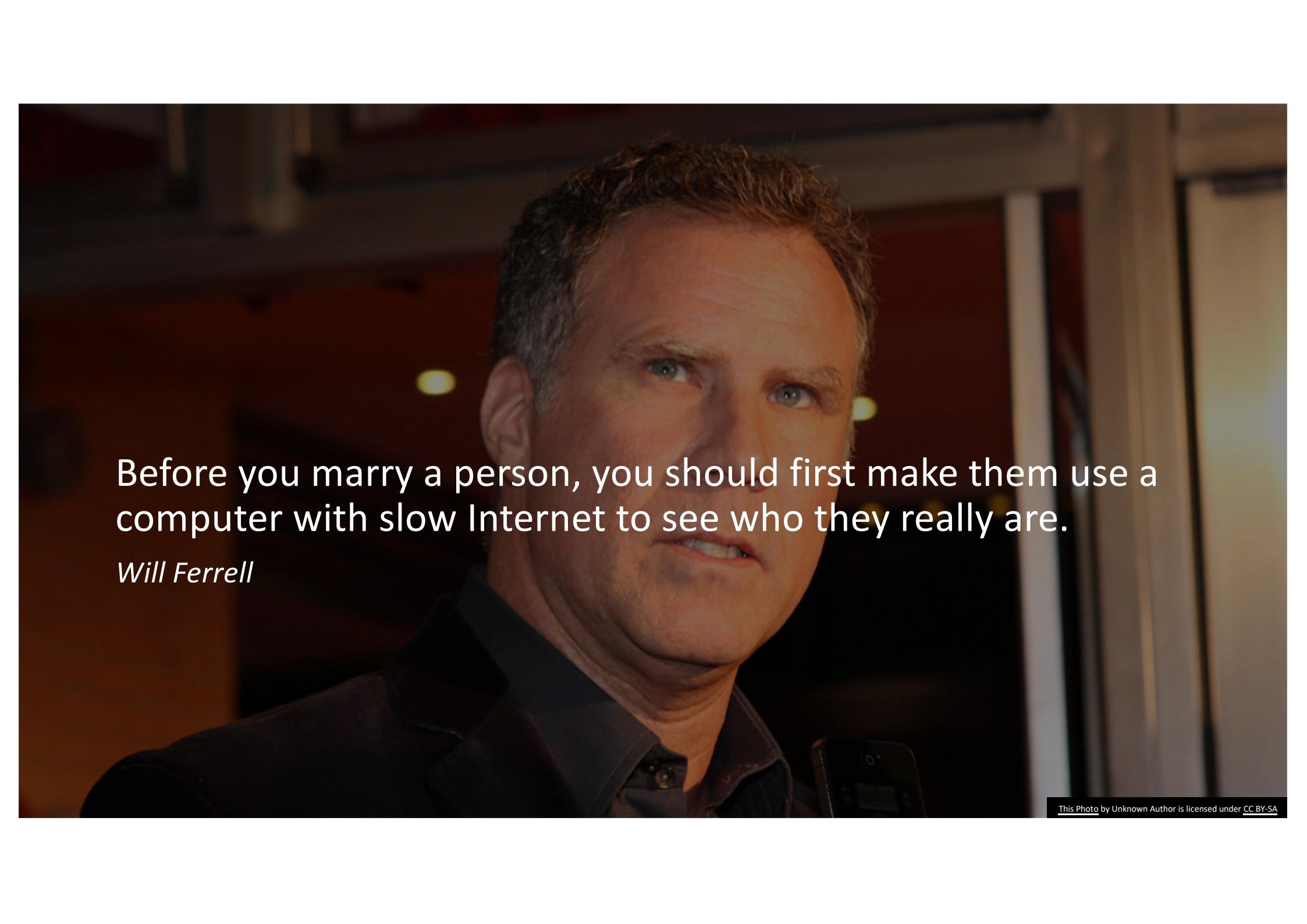
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## Challenge



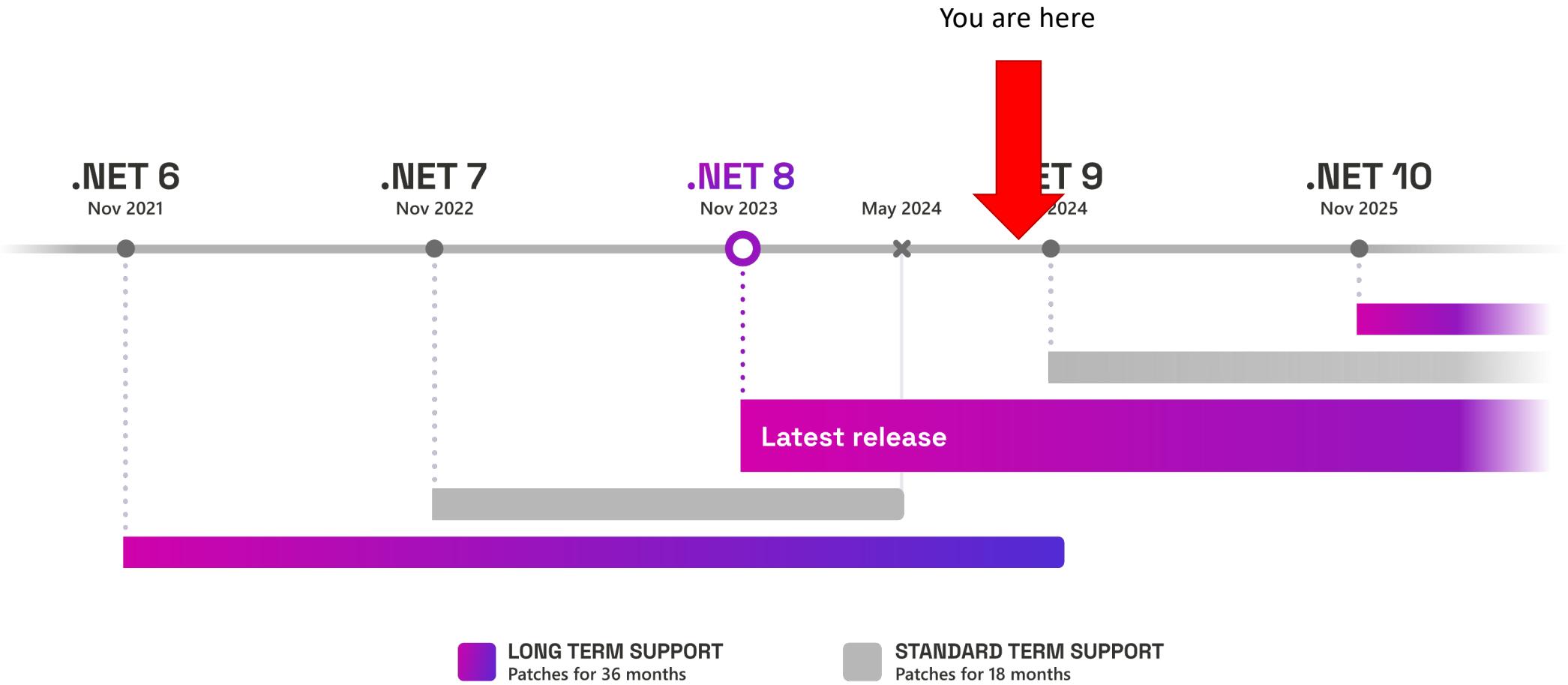
This Photo by Unknown Author is licensed under [CC BY](#)



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

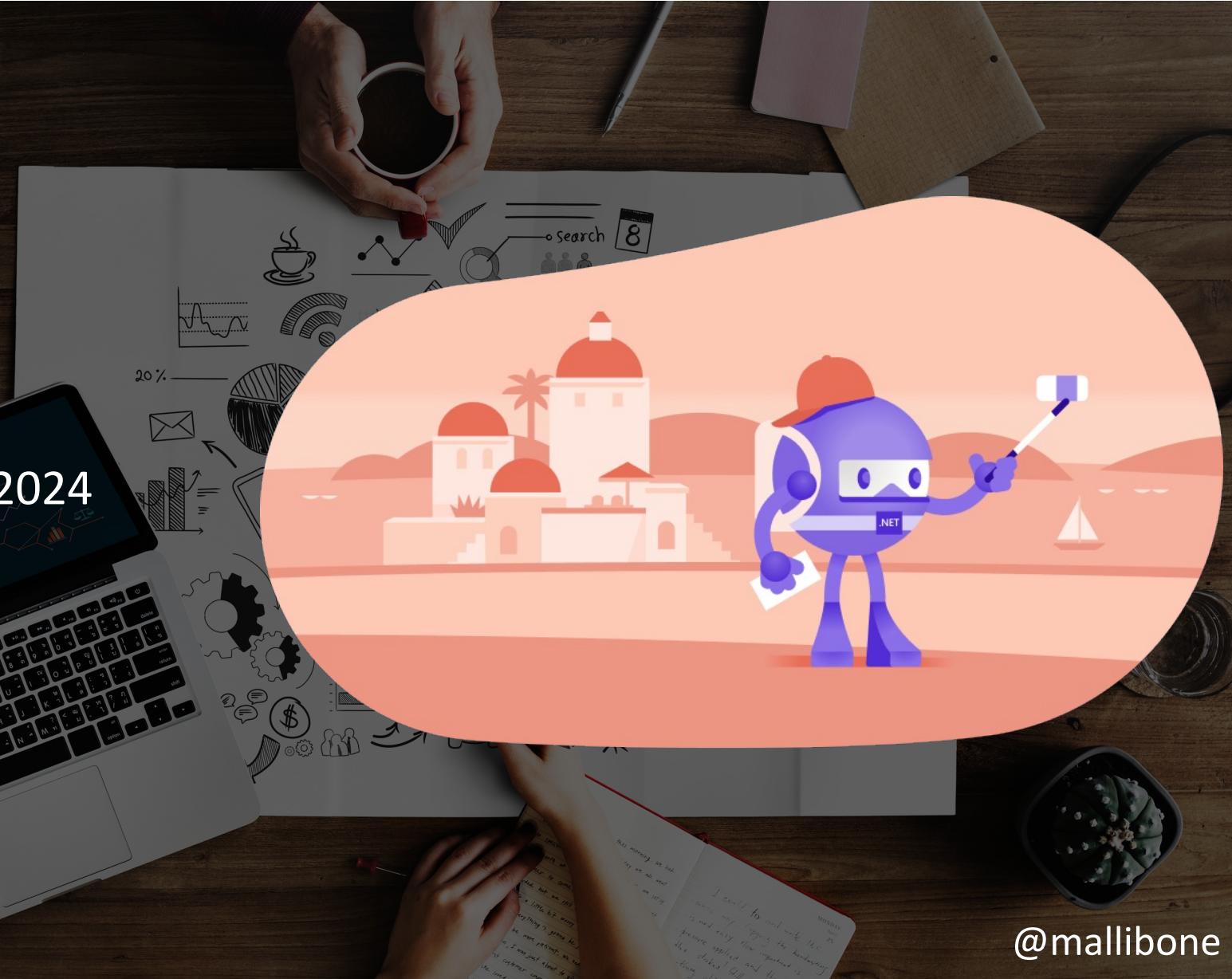
- [Customize Kestrel named pipe endpoints](#)
- [Improved Kestrel connection metrics](#)
- [Opt-out of HTTP metrics on certain endpoints and requests](#)
- [ExceptionHandlerMiddleware option to choose the status code based on the exception](#)
- Full [release notes](#)

## .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



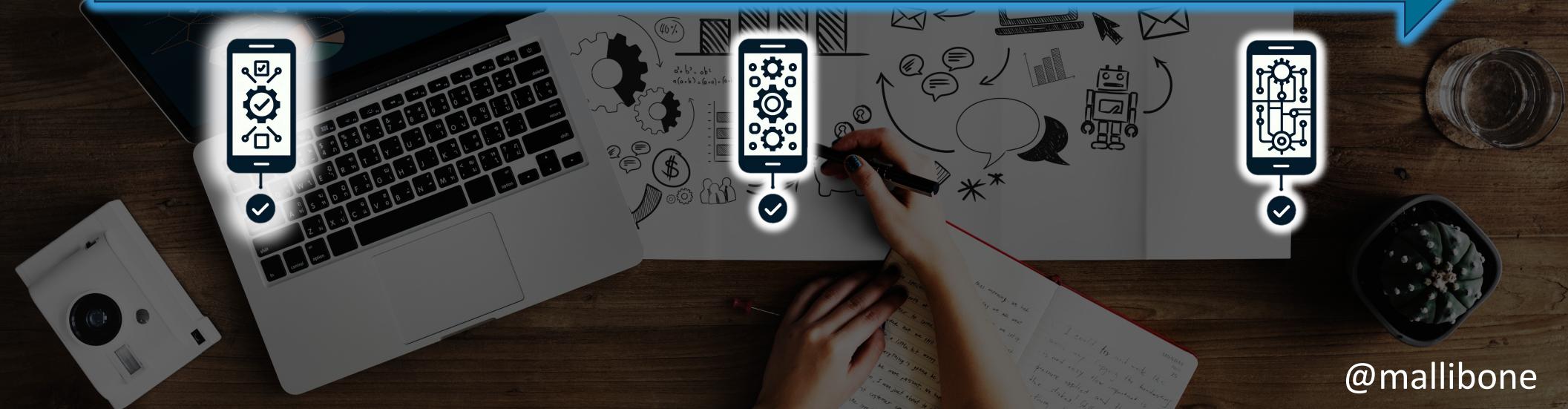
@mallibone

# OFFLINE

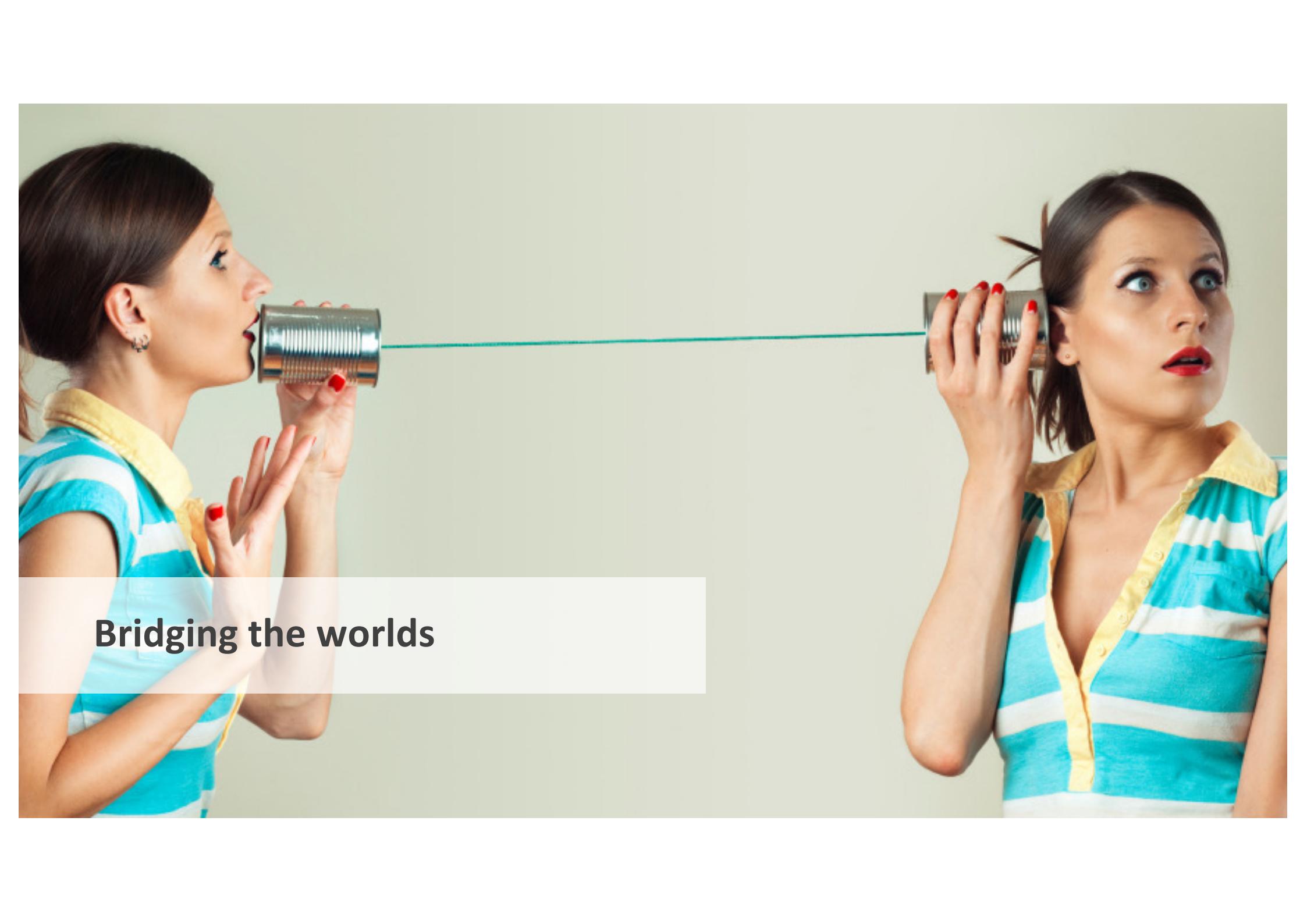
# Hybrid continuum



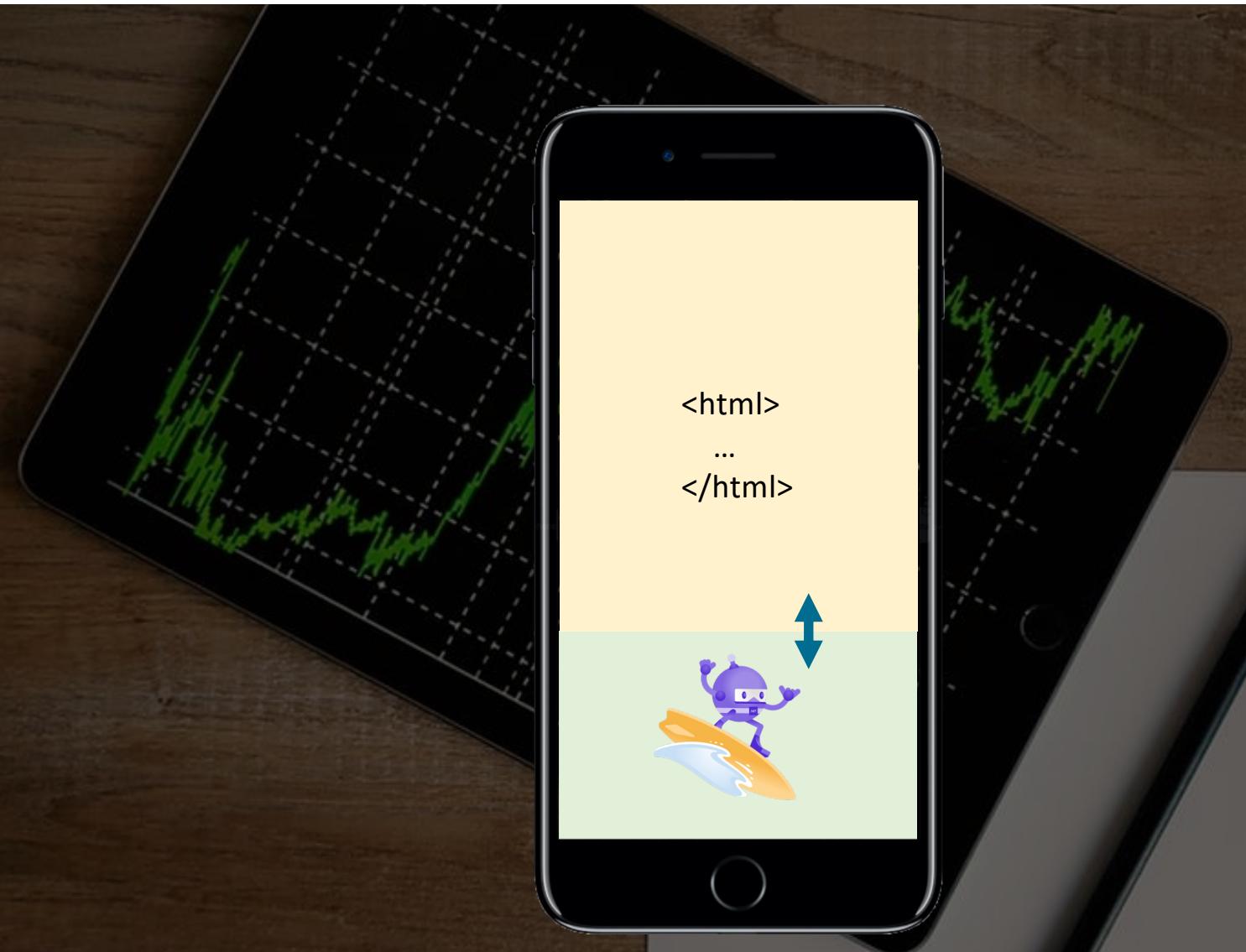
Hybrid continuum



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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. The woman on the left has her mouth near the can and is gesturing with her hands. The woman on the right is looking towards the other woman. The background is a plain, light-colored wall.

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

Error List Output

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MauiApp1

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- Properties
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  - Android
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- App.xaml
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Solution Explorer Git Changes

Properties

XML Document

Misc

Encoding Unicode (UTF-8)

Output

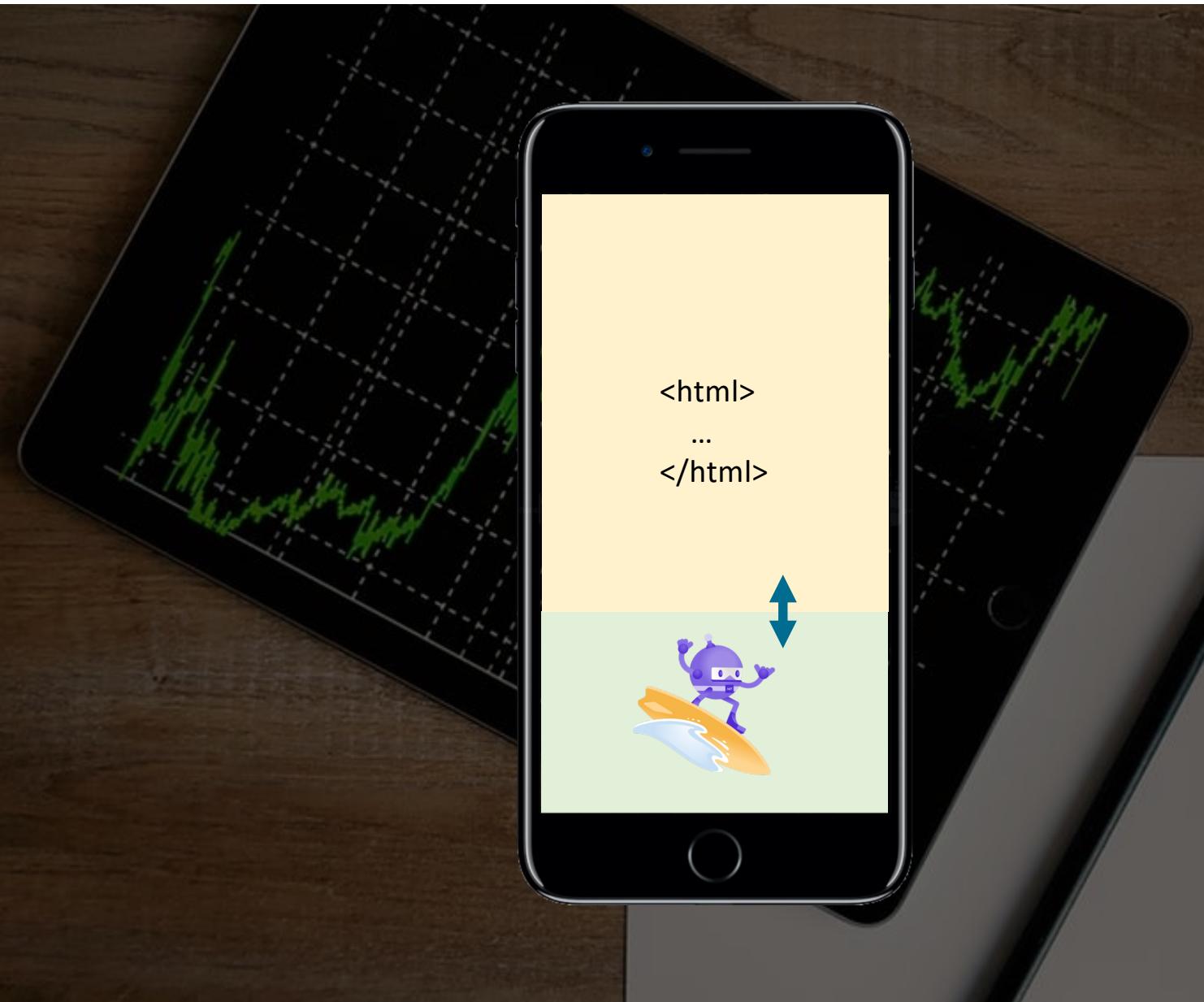
Schemas "C:\Program Files\Microsoft Visual Studio\2022\Community\SDK\NuGetFallbackFolder\Microsoft.Maui\6.0.0\ref\net6.0\Microsoft.Maui.dll"

Stylesheet

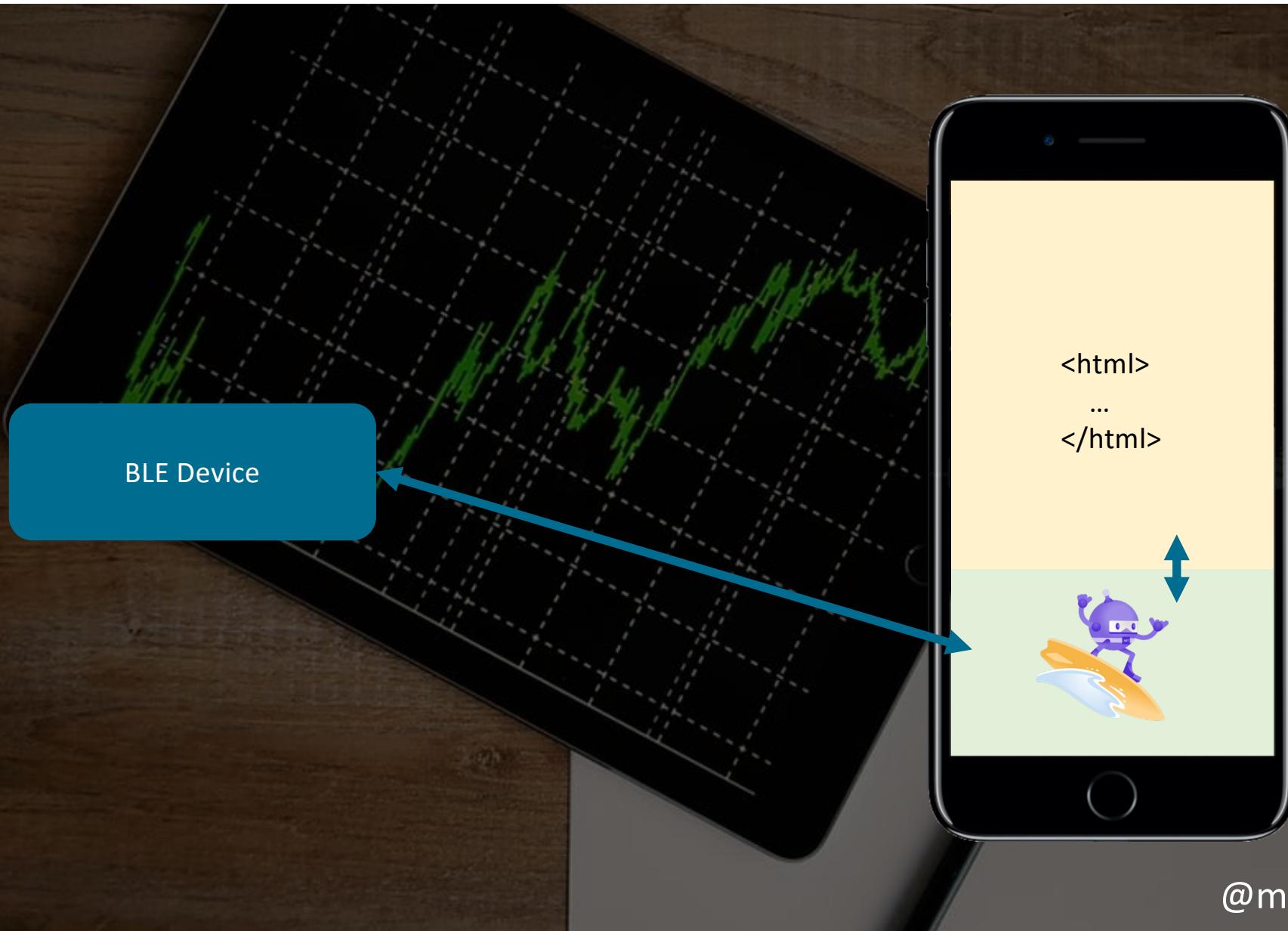
Encoding

Character encoding of the document.

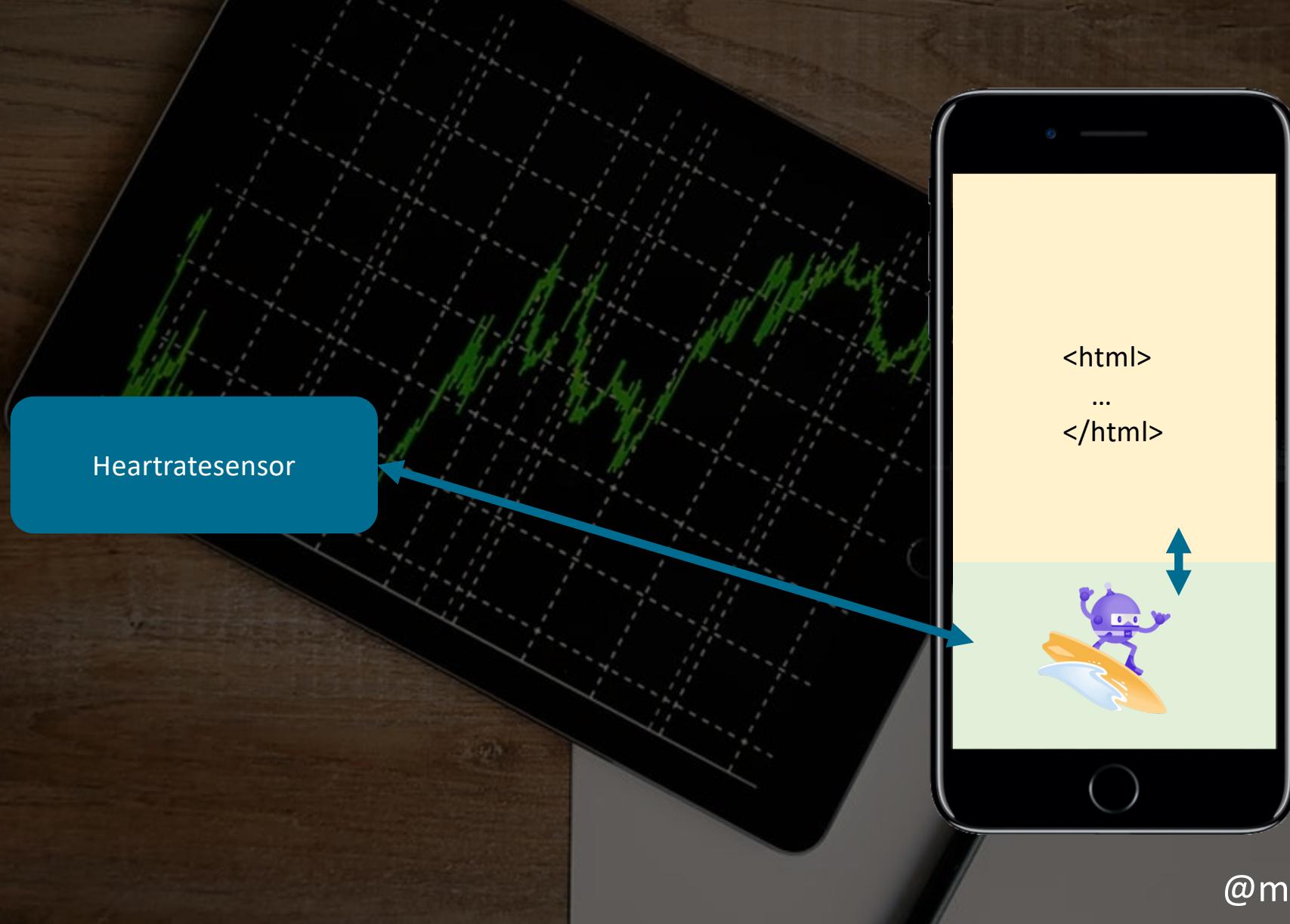
Add to Source Control Select Repository



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Heartratesensor

<html>  
...  
</html>



@mallibone

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

Live Share

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    <ApplicationDisplayVersion>1.0</ApplicationDisplayVersion>
    <ApplicationVersion>1</ApplicationVersion>

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

Solution Explorer

Solution 'MauiApp1' (1 of 1 project)

- MauiApp1
  - Dependencies
  - Properties
  - Platforms
    - Android
    - iOS
    - MacCatalyst
    - Tizen
    - Windows
  - Resources
  - App.xaml
  - AppShell.xaml
  - 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\6.0.0\ref\net6.0\Microsoft.Maui.dll"

Stylesheet

Encoding

Character encoding of the document.

Add to Source Control Select Repository

# 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 ☀

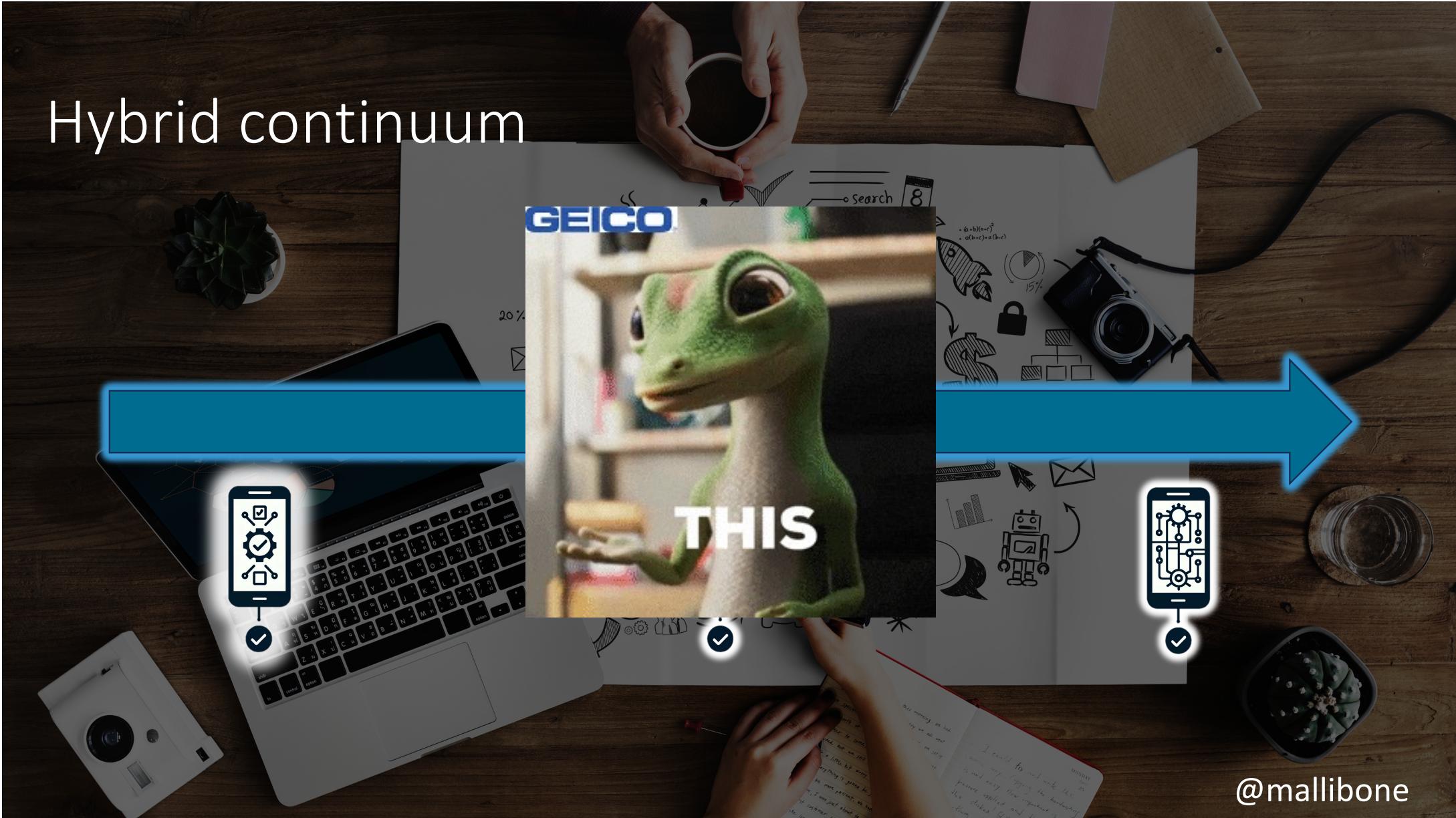
#22303 opened on May 9 by Eilon ➔ .NET 9 Planning



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

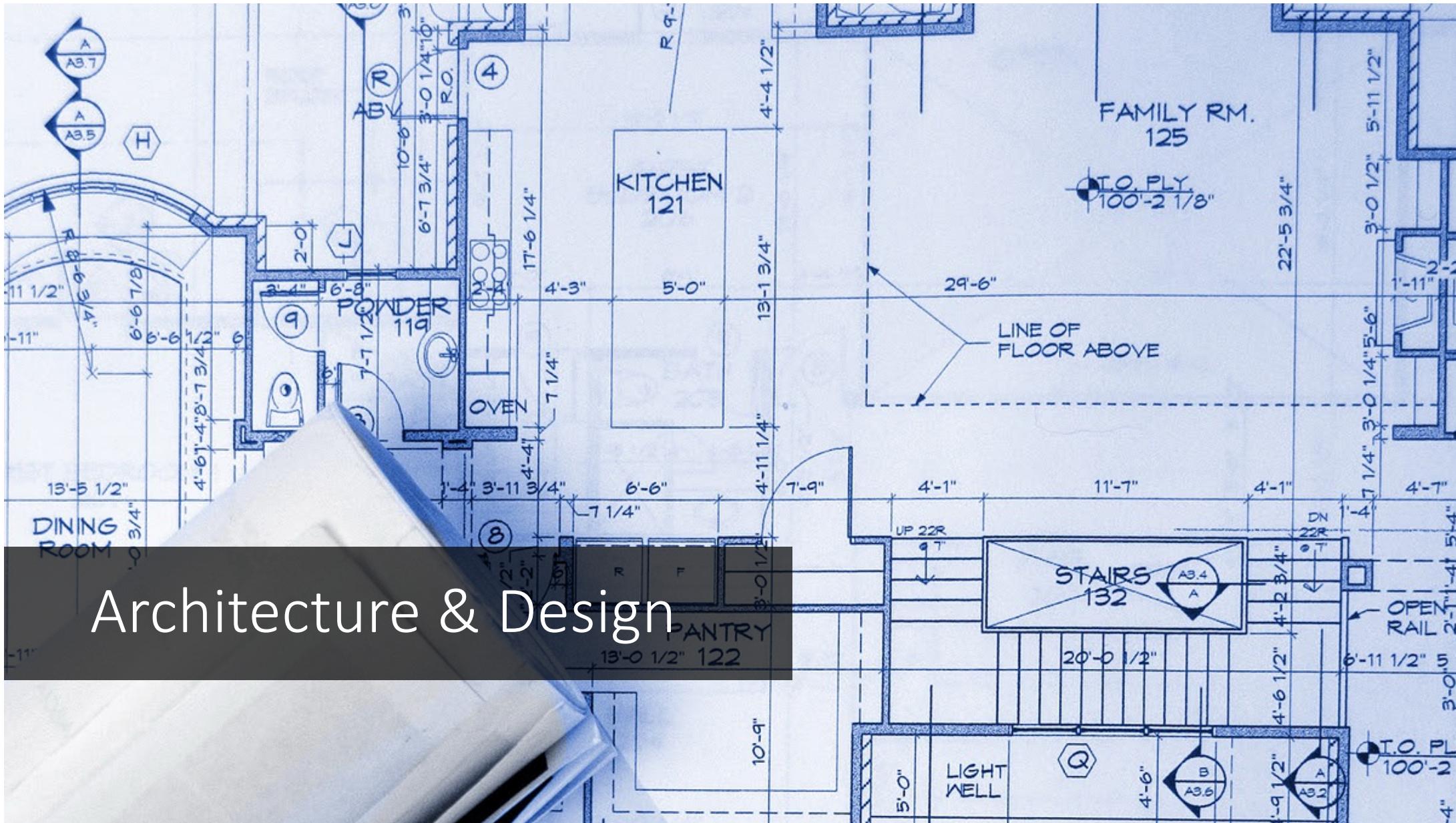


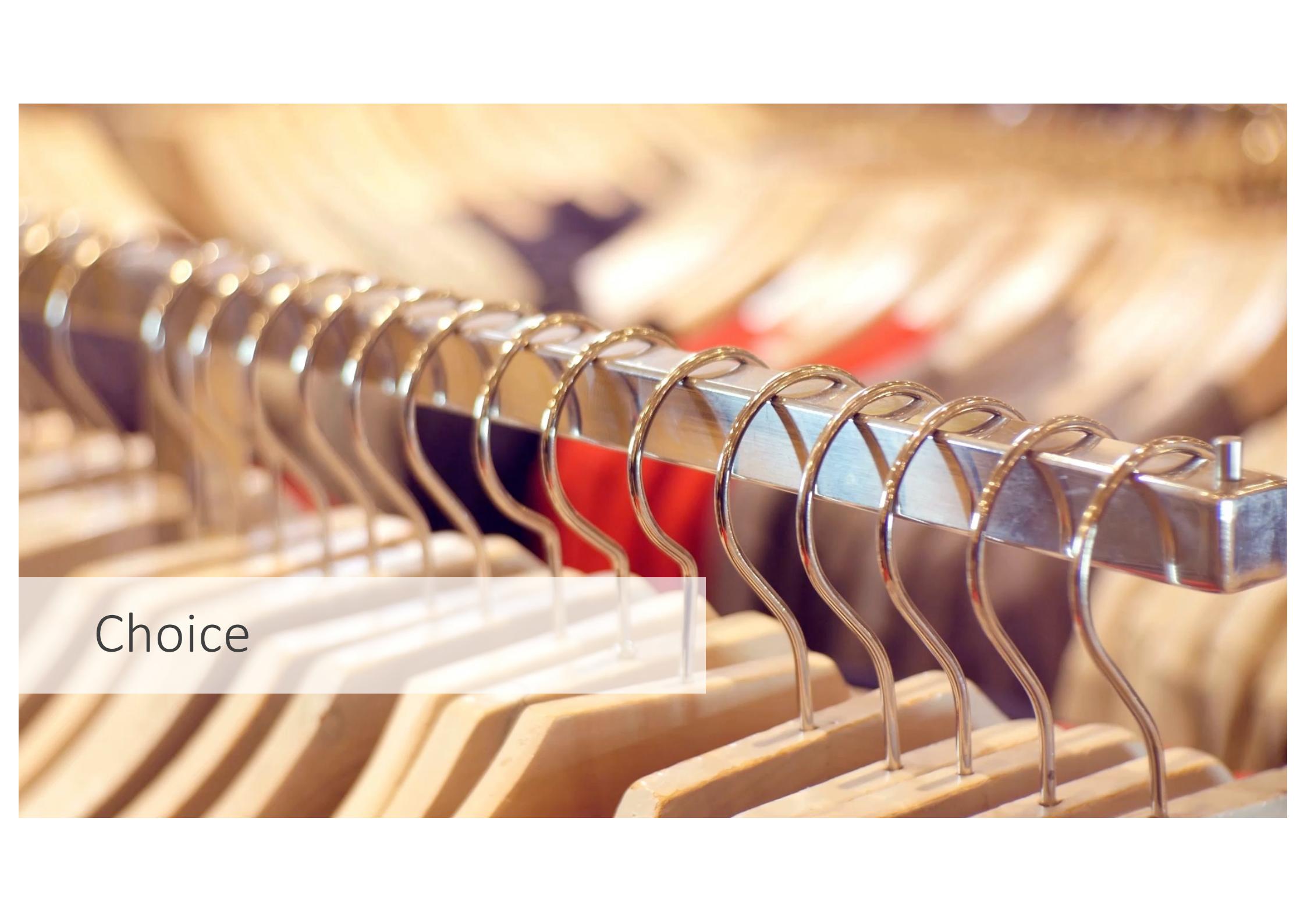
Multiplatform vs  
Multiparadigm

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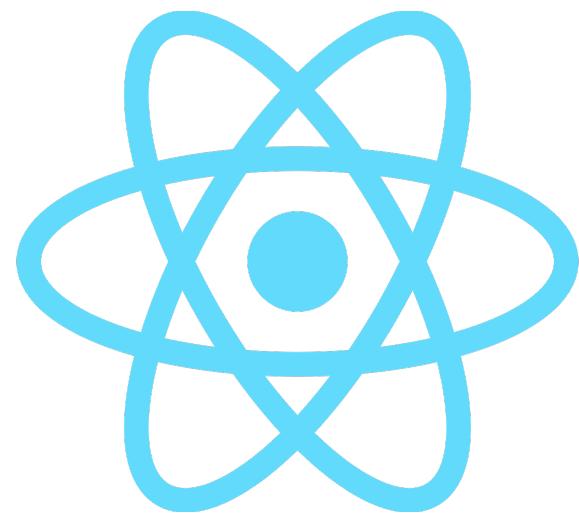
@mallibone

# Architecture & Design

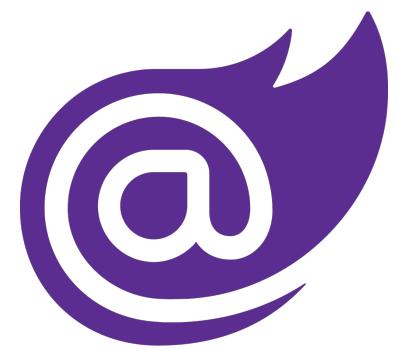
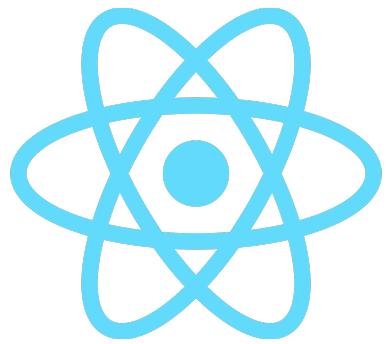




Choice



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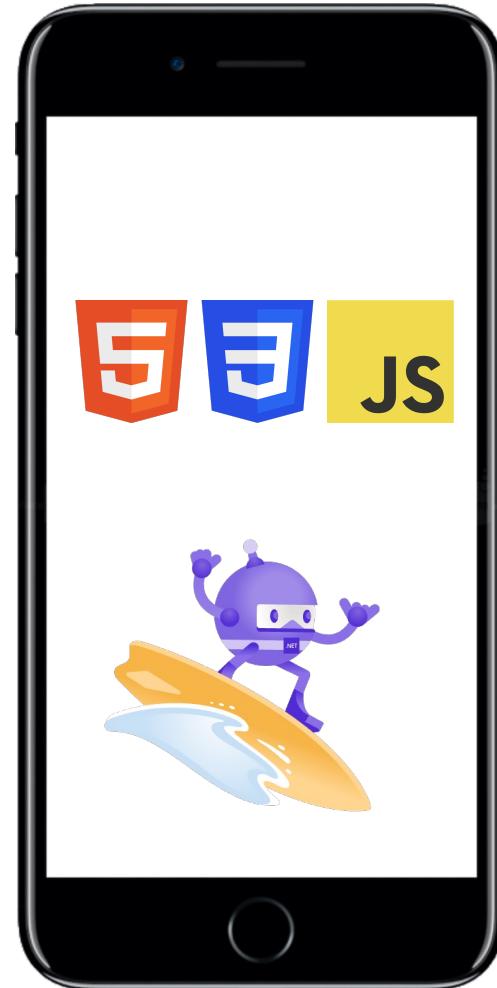
# Takeaways



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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



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*Thank you for your time!*



Mark Allibone



@mallibone



Rey Technology



<https://mallibone.com>



<https://nullpointers.io>



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



Scan me

