

THE DEVELOPER'S CONFERENCE

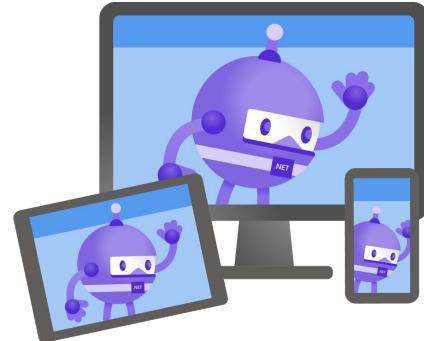
**Interfaces multi plataforma com .Net
Maui**

O que é o Maui ?



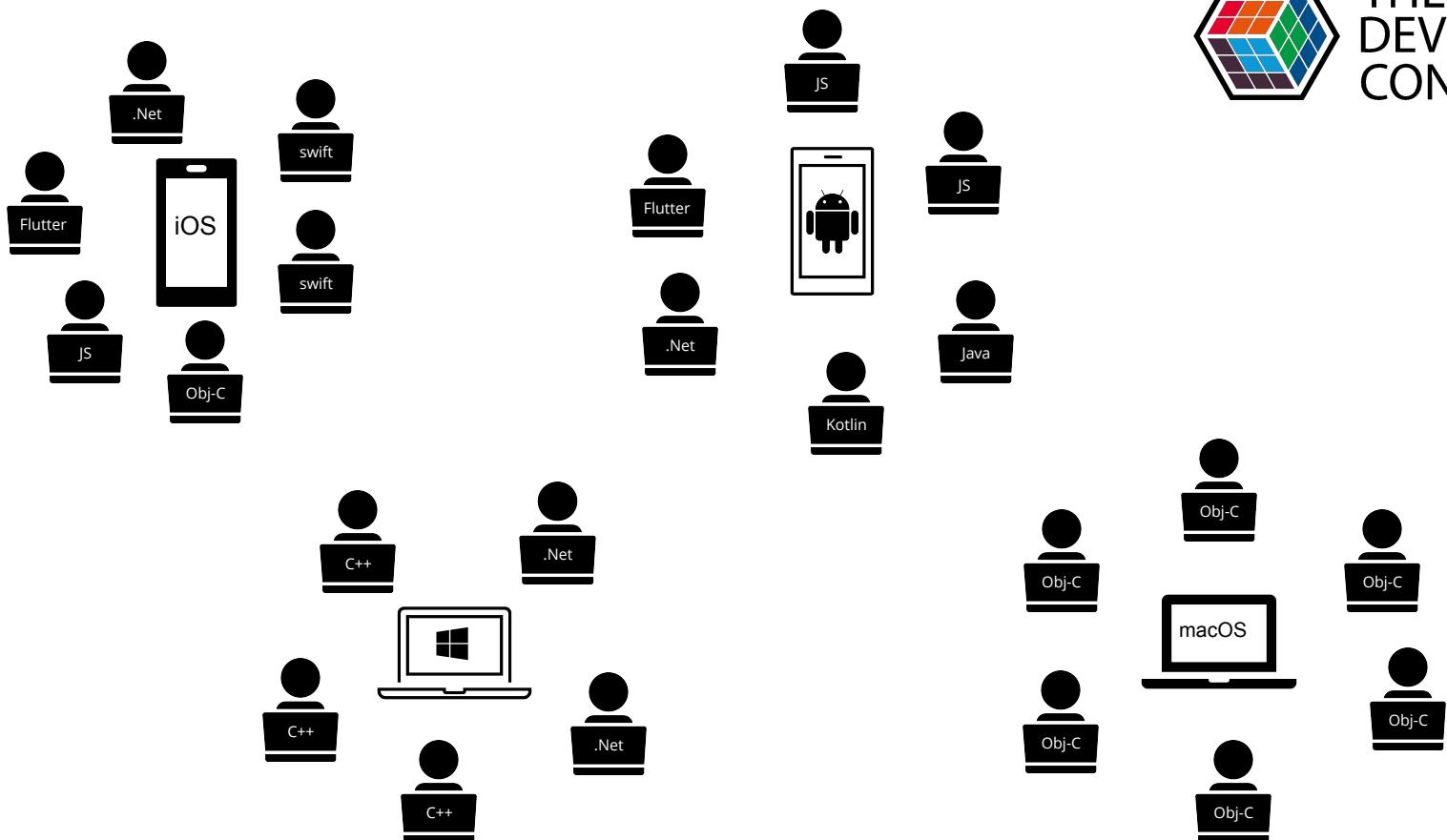
Multi-platform App UI

O Maui vem com o objetivo de unificar as tecnologias de interfaces mobile e desktop dentro do universo .Net.



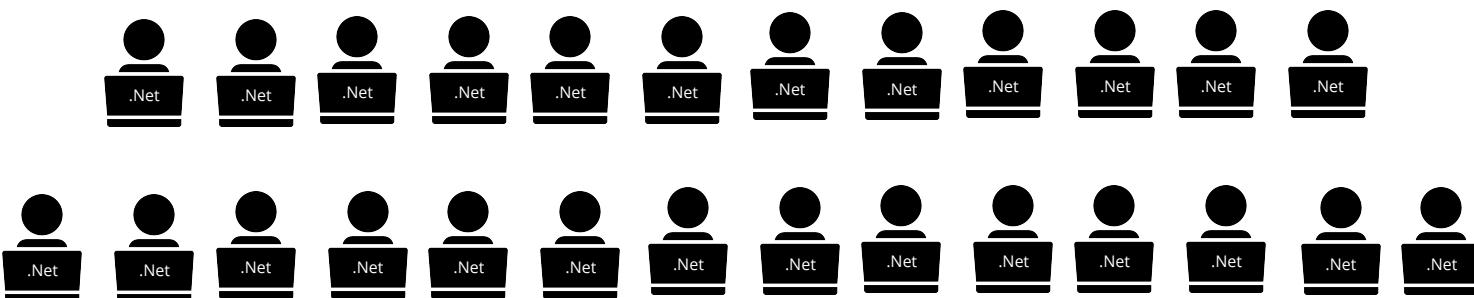
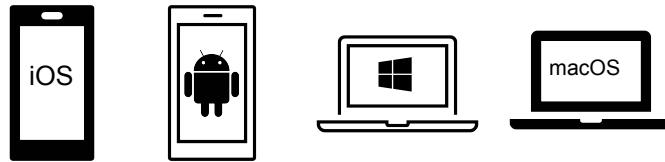


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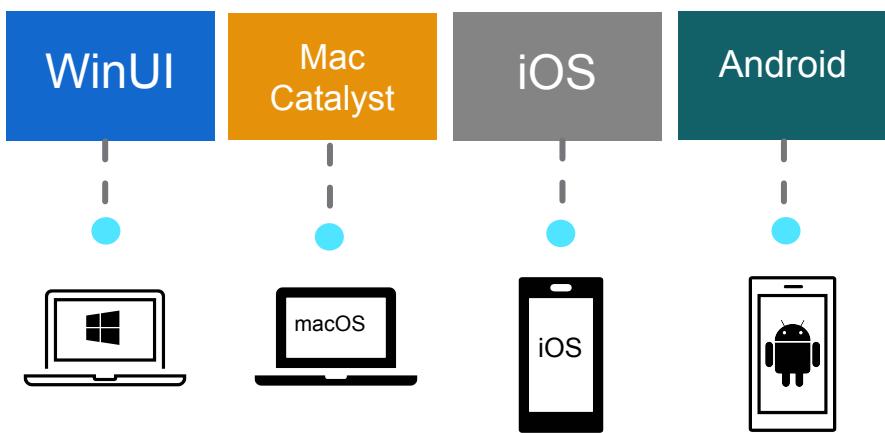


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.NET 6

.NET Multi-platform App UI



O xamarin forms não faz isto ?

O Maui está sendo uma evolução do Xamarin.Forms.

Abrangendo Android, iOS, Windows, MacOs



.NET Multi-platform App UI

.NET for Android

.NET for iOS / Mac Catalyst

WinUI

.NET BCL

App Code

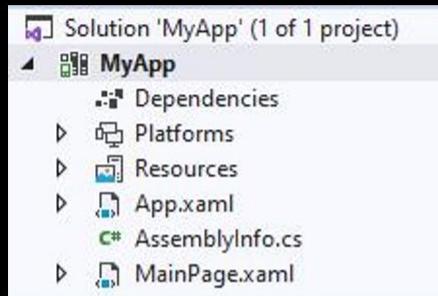
Android

iOS

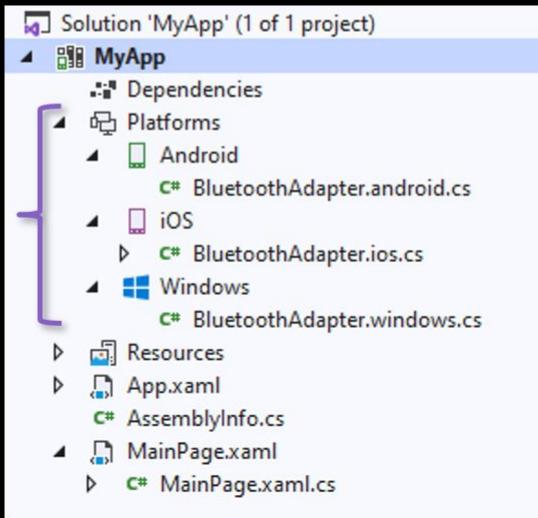
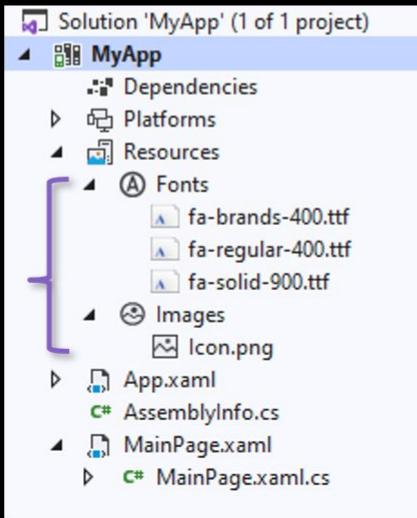
macOS

Windows

MAUI: Cross-platform development, simplified



```
<Project Sdk="Microsoft.NET.Sdk">  
  
    <PropertyGroup>  
        <TargetFrameworks>net5.0-ios;net5.0;net5.0-android</TargetFrameworks>  
    </PropertyGroup>  
  
    <ItemGroup>  
        <PackageReference Include="System.Maui" />  
        <PackageReference Include="System.Device" />  
    </ItemGroup>  
  
</Project>
```

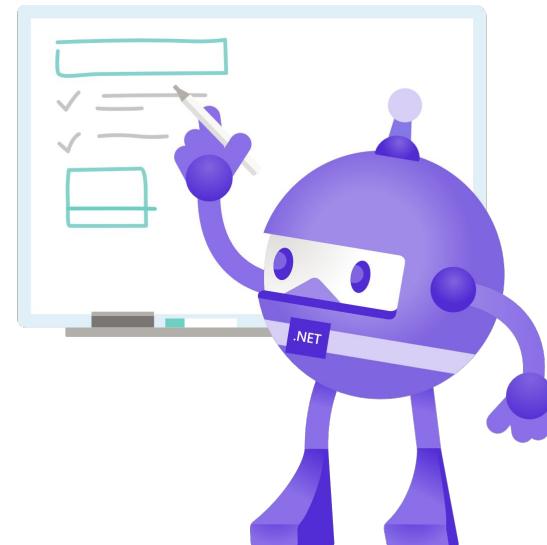


Maui-check



A configuração do ambiente foi muito mais simplificada, podemos validar os recursos através do maui check.

- `dotnet tool install -g Redth.Net.Maui.Check`
- `maui-check`



.NET MAUI

¤ .NET MAUI Check v0.7.3.0 ¤

This tool will attempt to evaluate your .NET MAUI development environment.
If problems are detected, this tool may offer the option to try and fix them for you, or suggest a way to fix them yourself.

Thanks for choosing .NET MAUI!

» Synchronizing configuration... ok
» Scheduling appointments... ok

> OpenJDK 11.0 Checkup...
- 1.8.0-25 (C:\Program Files\Android\jdk\microsoft_dist_openjdk_1.8.0.25)
- 11.0.10 (C:\Program Files\Microsoft\jdk-11.0.10.9-hotspot\bin\..)

> Visual Studio 17.0.0-pre.3.0 Checkup...
- 17.0.0-pre.3.1 - D:\Program Files\Microsoft Visual Studio\2022\Preview
- 16.9.5

> Android SDK Checkup...
- emulator (30.1.5)
- build-tools;30.0.2 (30.0.2)
- platforms;android-30 (3)
- system-images;android-30;google_apis;x86 (10)
- platform-tools (30.0.4)
- cmdline-tools;3.0 (3.0)

> Android Emulator Checkup...
- Emulator: pixel_2_-_c found.

> .NET SDK Checkup...
- 5.0.104 - C:\Program Files (x86)\dotnet\sdk\5.0.104

¤ Recommendation: Download .NET SDK (6.0.100-preview.7.21379.14) ¤

? Attempt to fix? [y/n] (y):

MVVM (Model-View-ViewModel)



Pattern predominante para desenvolvimento de interfaces mobile / desktop dentro do mundo .Net juntamente com XAML

XAML

```
<StackLayout>
    <Label Text="Welcome to .NET MAUI!" />
    <Button Text="{Binding Text}"
           Command="{Binding ClickCommand}" />
</StackLayout>
```

ViewModel

```
public Command ClickCommand { get; }

public string Text { get; set; } = "Click me";

int count = 0;

void ExecuteClickCommand ()
{
    count++;
    Text = $"You clicked {count} times.";
}
```

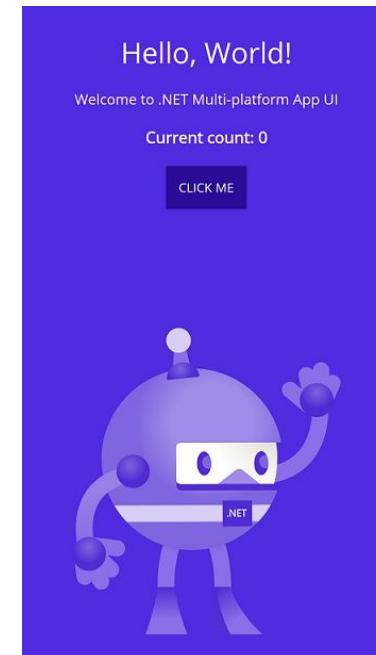
MVU (Model-View-Update)



Também será possível trabalhar com o maui utilizando o MVU, que permite o gerenciamento de dados e estado unilateralmente.

```
readonly State<int> count = 0;

[Body]
View body() => new StackLayout
{
    new Label("Welcome to .NET MAUI!"),
    new Button(
        () => $"You clicked {count} times.",
        () => count.Value++)
}
};
```



The image shows a developer's workspace with two main windows: Xcode on the left and an iPhone simulator on the right.

Xcode Left Window:

- File Navigator:** Shows the project structure with files like MainPage.cs, MainPage.xaml, MainPage.xaml.cs, and FancyCounter.cs.
- Code Editor:** Displays the C# code for `MainPage.cs`. The code creates a `ZStack` view containing a `ShapeView`, a `Label` with text, and a `Button` labeled "Increment".
- Variables:** Shows local variables and their values.
- Watch:** Shows monitored variables.
- Call Stack:** Shows the current thread stack.
- Problems:** Shows build errors and warnings.
- Output:** Shows the terminal output, including build logs and errors related to assembly loading.
- Debug Console:** Shows the debug console output.
- Terminal:** Shows the terminal command used to run the application.

iPhone Simulator Right Window:

- The simulator displays the iOS application with the text "I will code 12 lines this month." and a blue button labeled "Increment".
- A small video overlay in the bottom right corner shows a woman smiling.

Bottom Status Bar:

- Shows the device name "iPhone 11 (13.4)", signal strength, battery level (67%), and connectivity icons.

Começo a utilizar Maui hoje ?





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Demo



Fagner Muniz



github.com/FagnerFun



linkedin.com/in/famuniz



Fernando Vendramin



github.com/FernandoVendramin



linkedin.com/in/fernando-vendramin-b3a33052



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Obrigado,
até mais