

# Build Cross-Platform Apps with .NET MAUI

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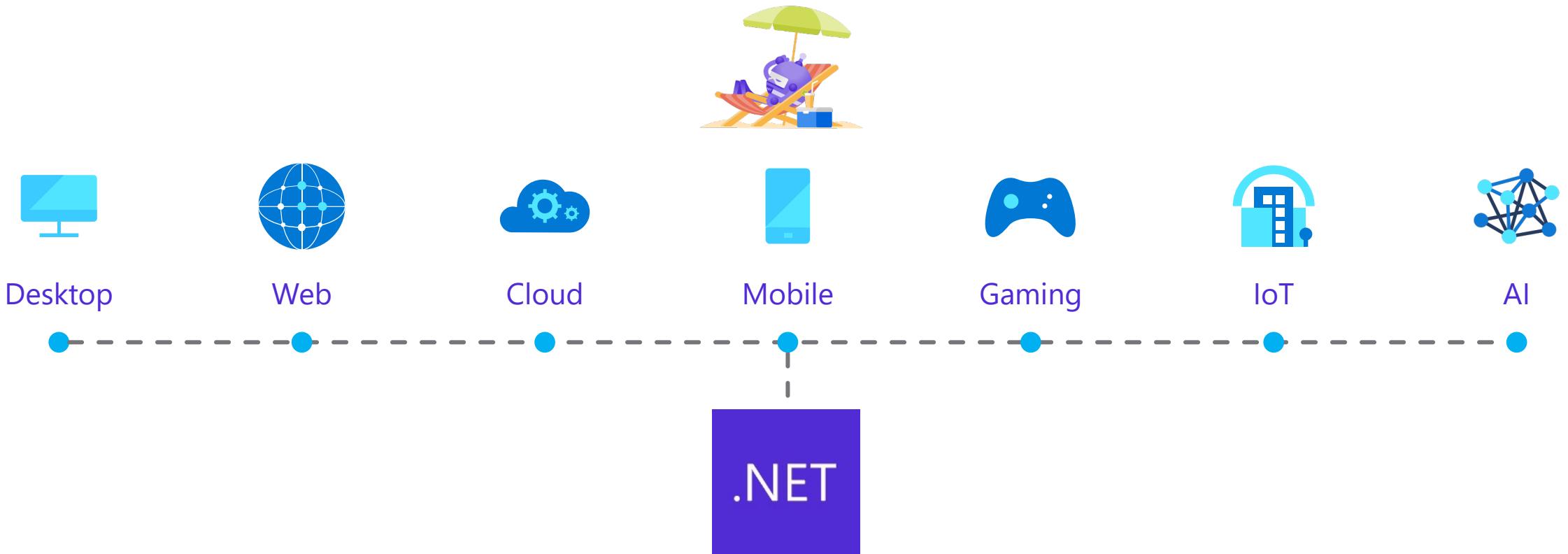




# What is .NET MAUI?

# .NET

Your platform for building anything



<https://dotnet.microsoft.com>

.NET MAUI

= .NET

Multi-platform

Application

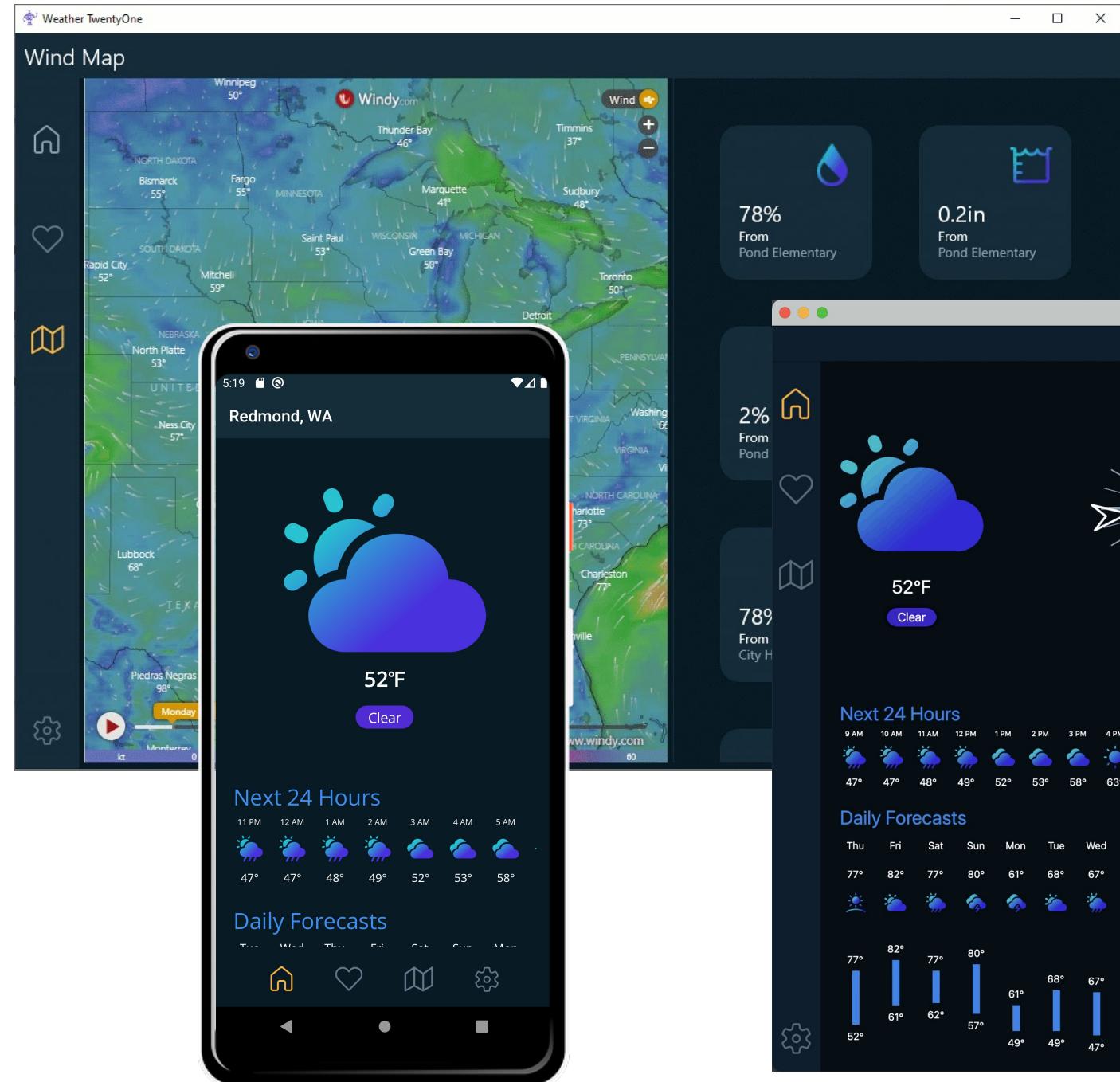
User

Interface

.NET MAUI is a cross-platform framework for  
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C# and XAML.

.NET MAUI is a cross-platform framework for creating native mobile and desktop apps with C# and XAML. It is the evolution of Xamarin.Forms, extended from mobile to desktop scenarios, with UI controls rebuilt from the ground up for performance and extensibility.

.NET MAUI is the most productive way to  
develop native apps that perform great on  
any device that runs Android, iOS, macOS,  
or Windows from a single codebase.





# How does .NET MAUI piece together?

## .NET Multi-platform App UI

.NET for Android

.NET for iOS / Mac Catalyst

WinUI

## .NET Base Class Library (BCL)

### App Code



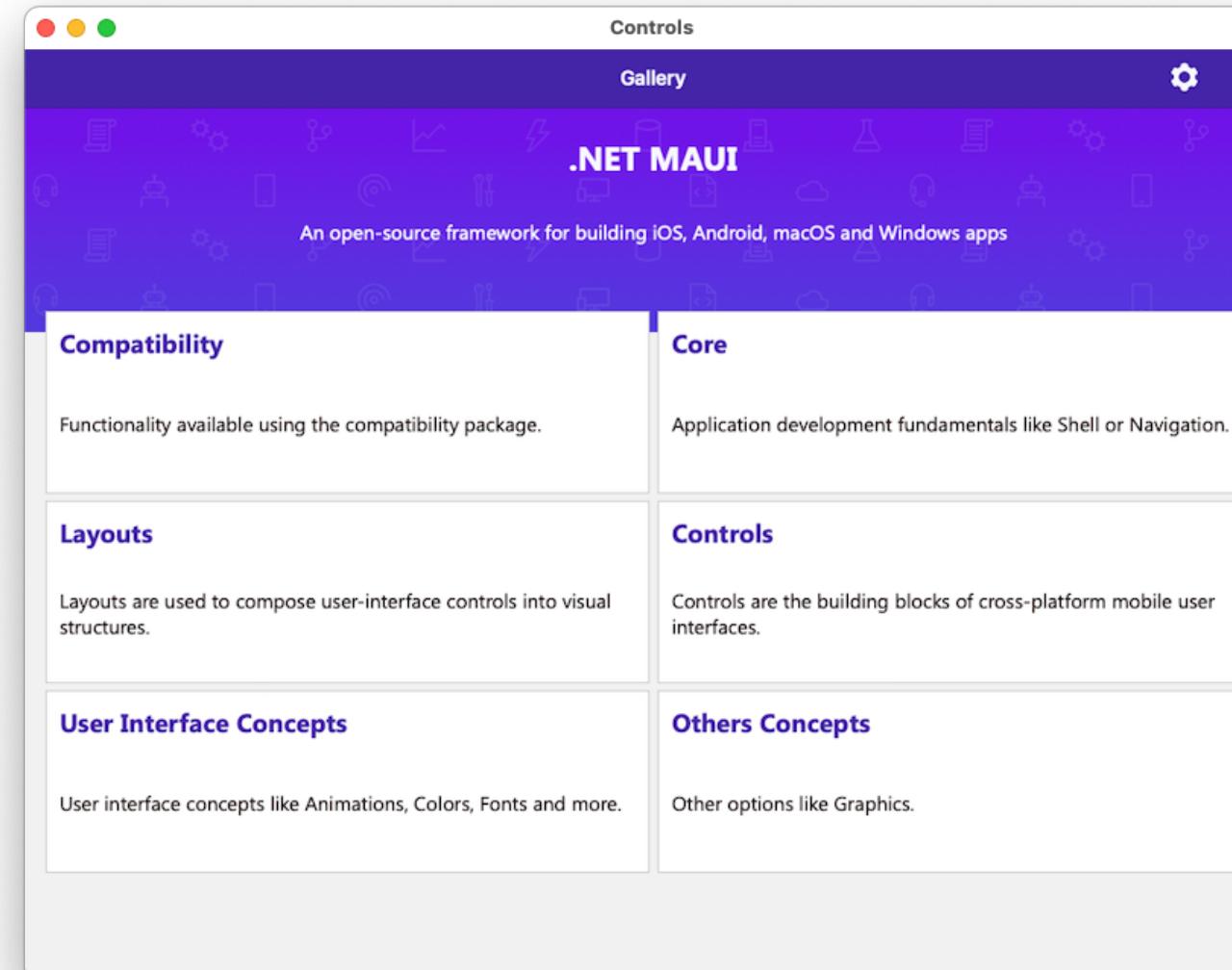
App Code

.NET Multi-platform App UI



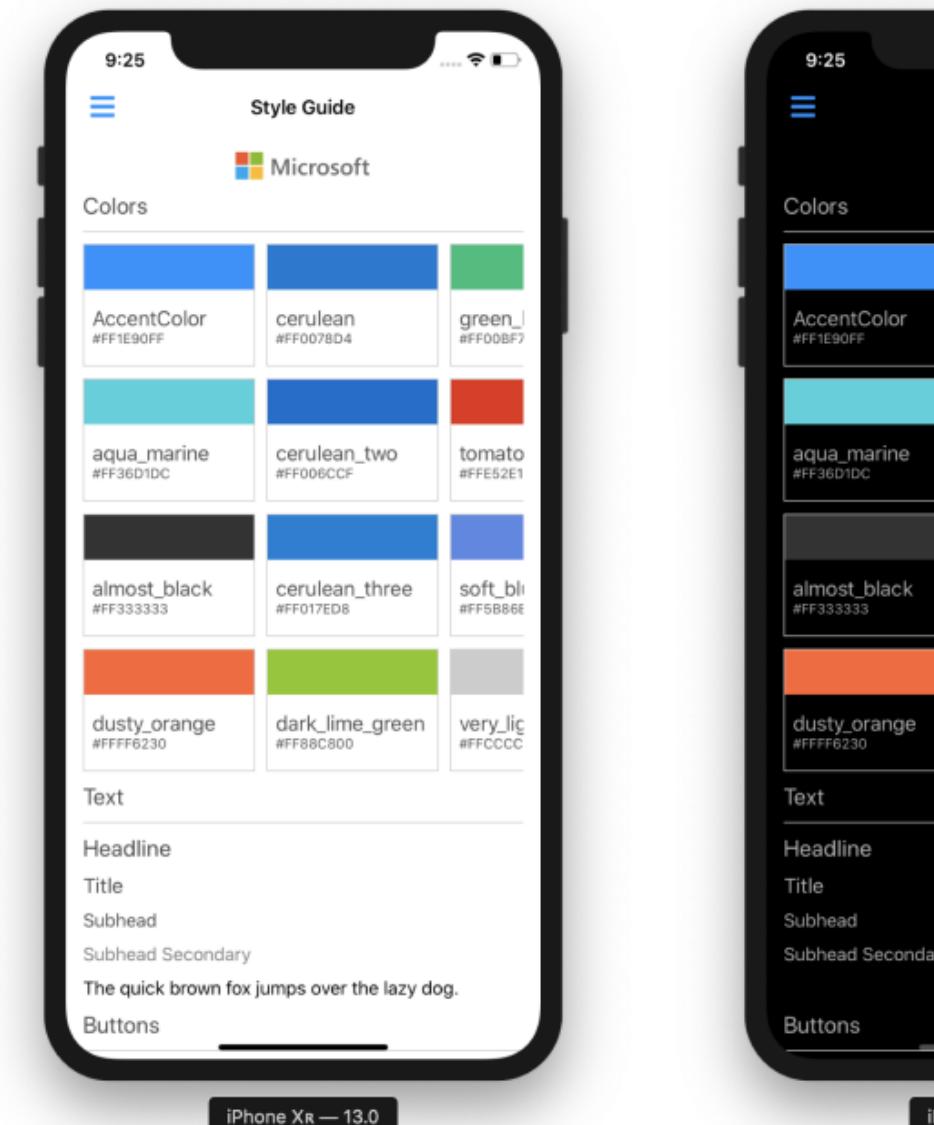
# Rich Library of Controls

- 40+ Controls
- Navigation
  - Flyout Menu
  - Bottom Tabs
  - Top Tabs
  - Hierarchical
- Adaptive layouts
- Right-to-Left
- Semantic Accessibility



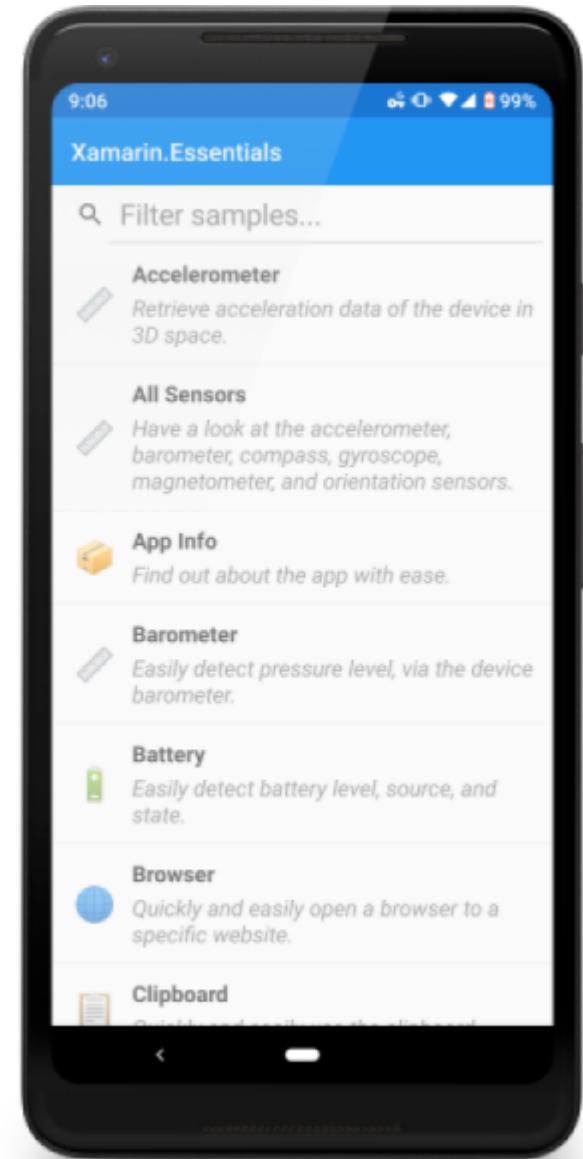
# Abundant Styling Options

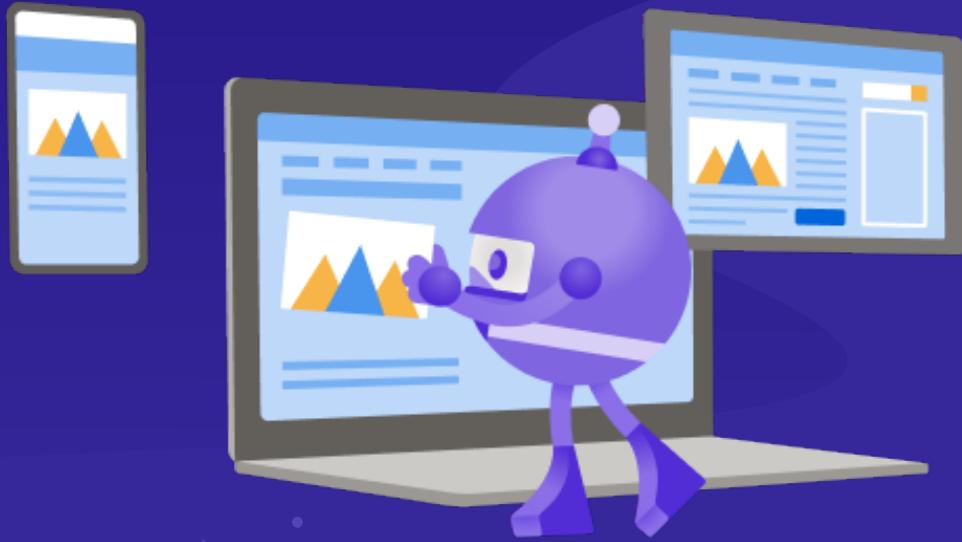
- Themes for dark and light
- Static and dynamic styles
- XAML and CSS
- Visual State Manager
- Custom fonts and font icons
- Images from many formats including SVG



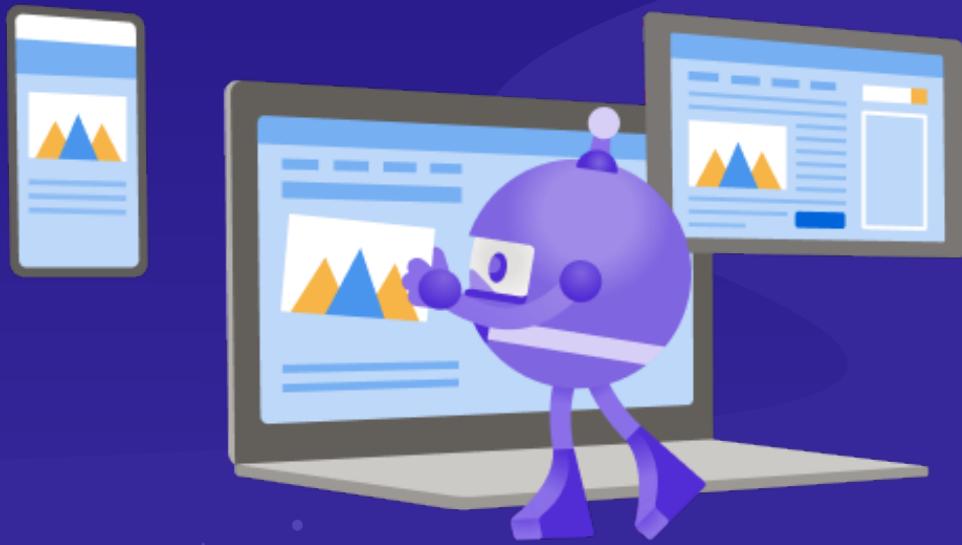
# Essentials

- Use Maui.Essentials to access device services across all .NET MAUI targets.
- Next version of Xamarin.Essentials
- Accelerometer
- App Actions
- App Information
- Barometer
- Batter
- Clipboard
- Compass
- Connectivity
- and on and on



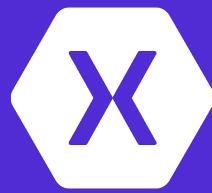


# Why .NET MAUI?



# Demo time!

# Built on mature, proven tech



## Xamarin

Loved by developers,  
trusted by enterprise



MCKESSON



3M



SIEMENS



BANG & OLUFSEN

XACTWARE

PEARSON

CARRABBA'S  
ITALIAN GRILL



goodfood



insightly



Honeywell



JustGiving™

taxfyle

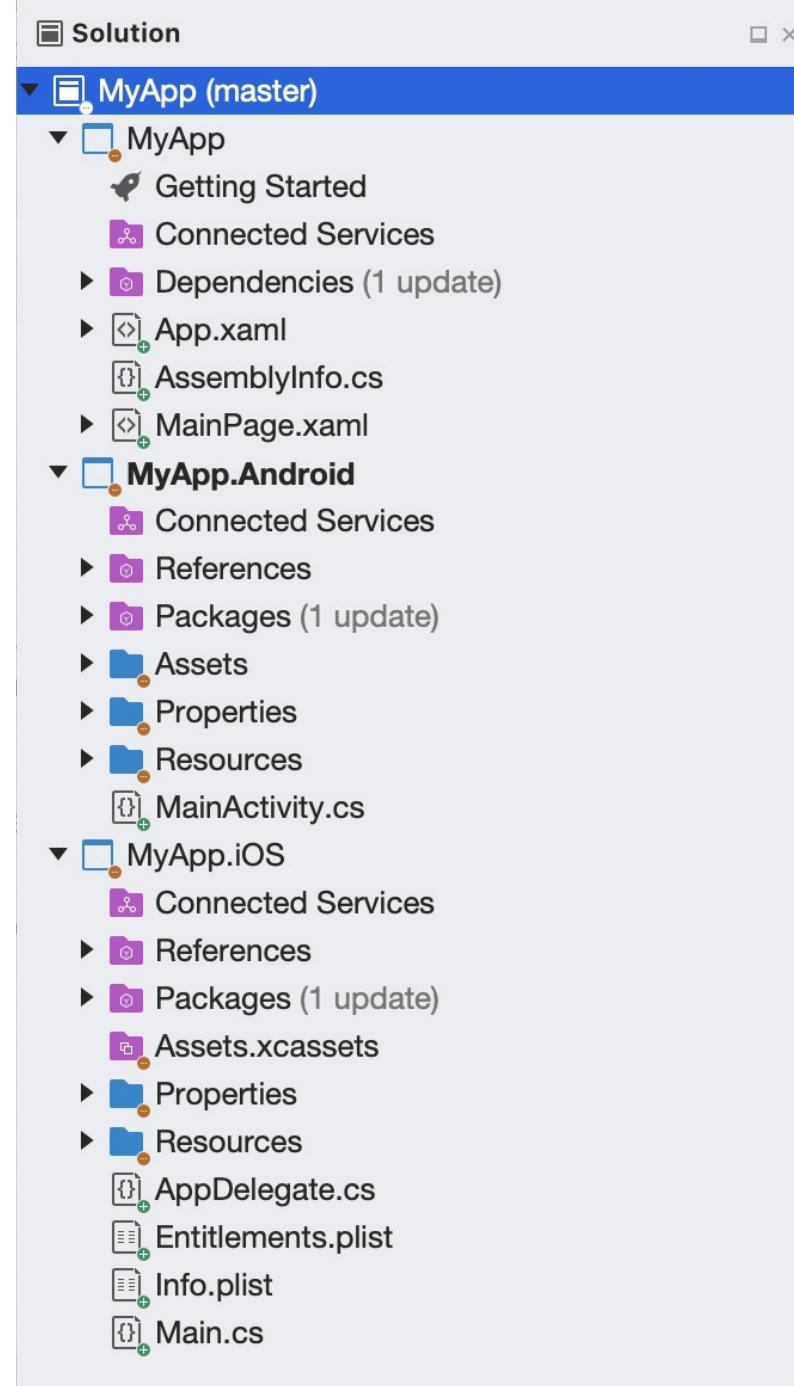
# Project System Improvements

Optimized for Cross-Platform Workflows

# Single Project

Reducing multiple projects to a single project alleviates several points of friction when developing apps that target multiple platforms.

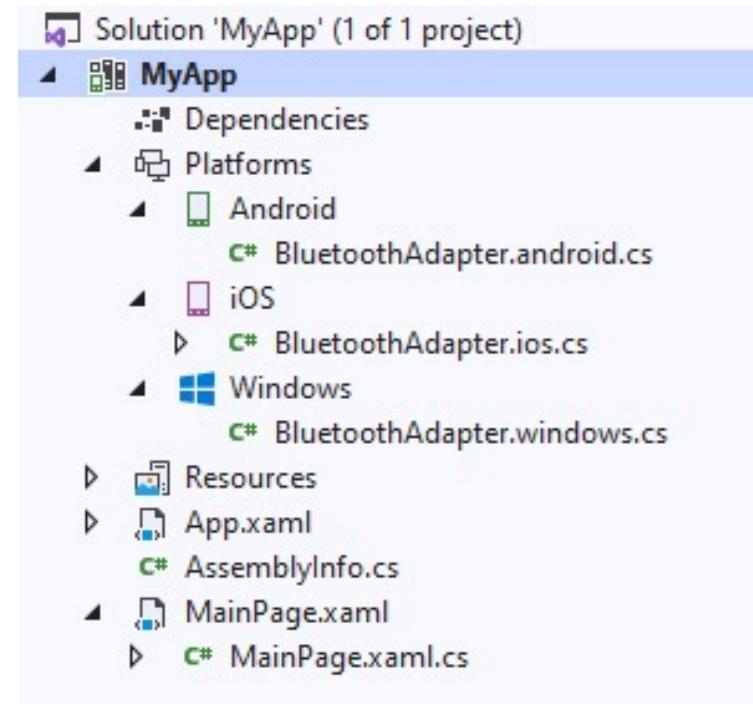
- Images
- Fonts
- Platform code
- Splash screen



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- Images
- Fonts
- Platform code
- Splash screen



# Faster Development

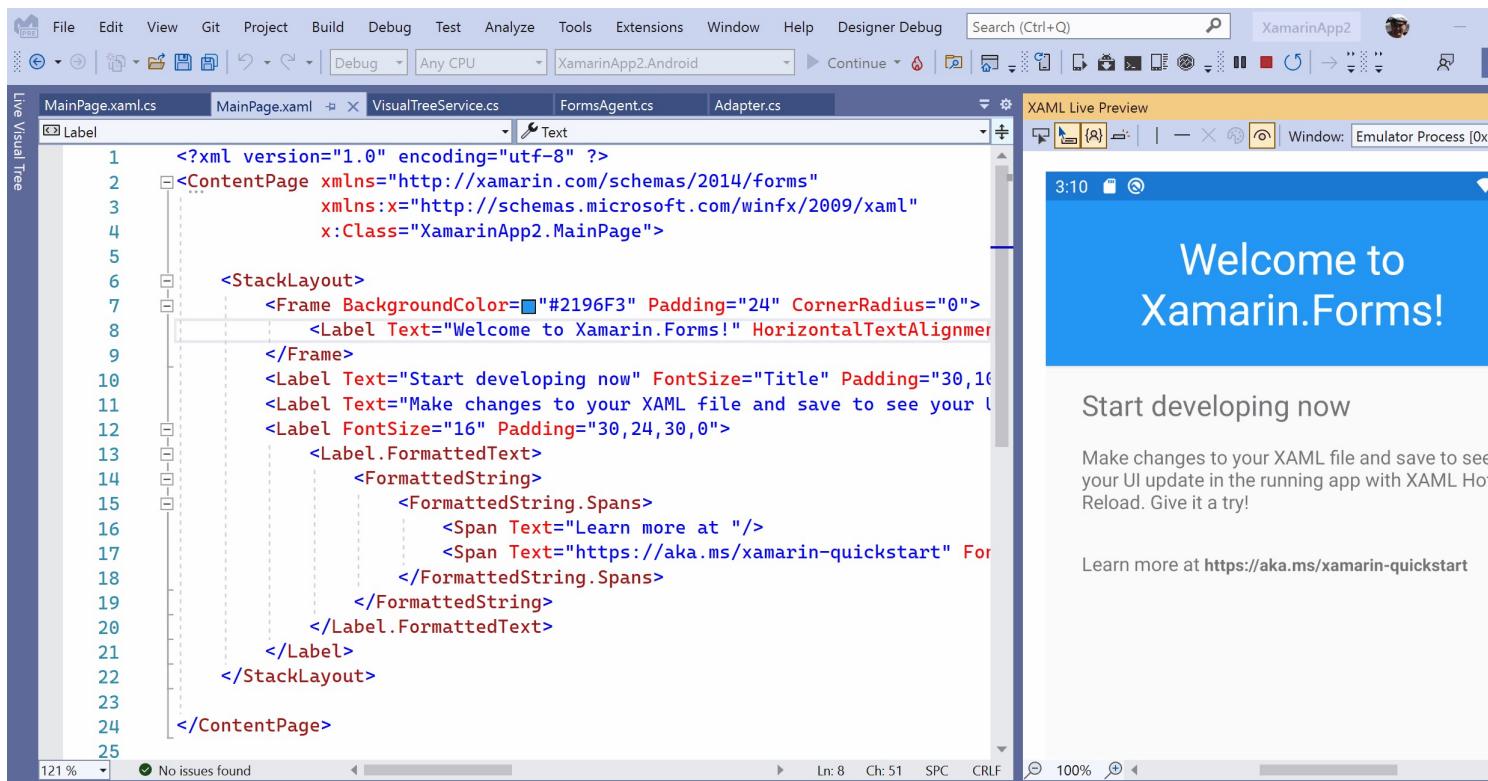
Optimized Inner-loop

# Code it Live

Whether XAML or C#, you can code while debugging your application and see the changes instantly. No more stop-edit-rebuild for simple tweaks.

When you do something more complex, Visual Studio will prompt you to rebuild.

- C#
- CSS
- Razor
- XAML

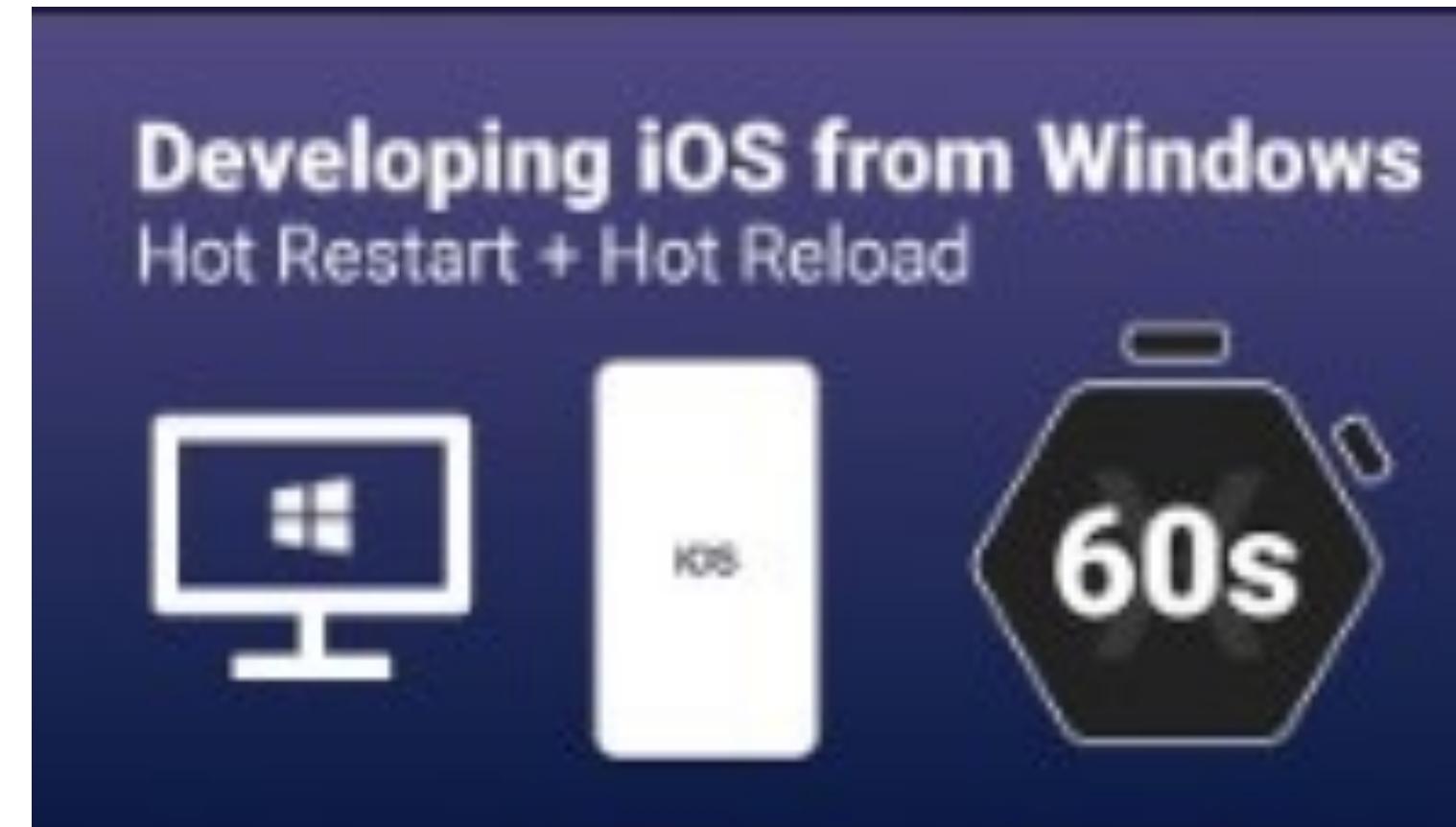


## Windows and iOS

Connect any iOS device directly to Windows and start coding in Visual Studio 2022. That's it!

Changes are pushed from Visual Studio directly to the app running on device, no Mac build host required.

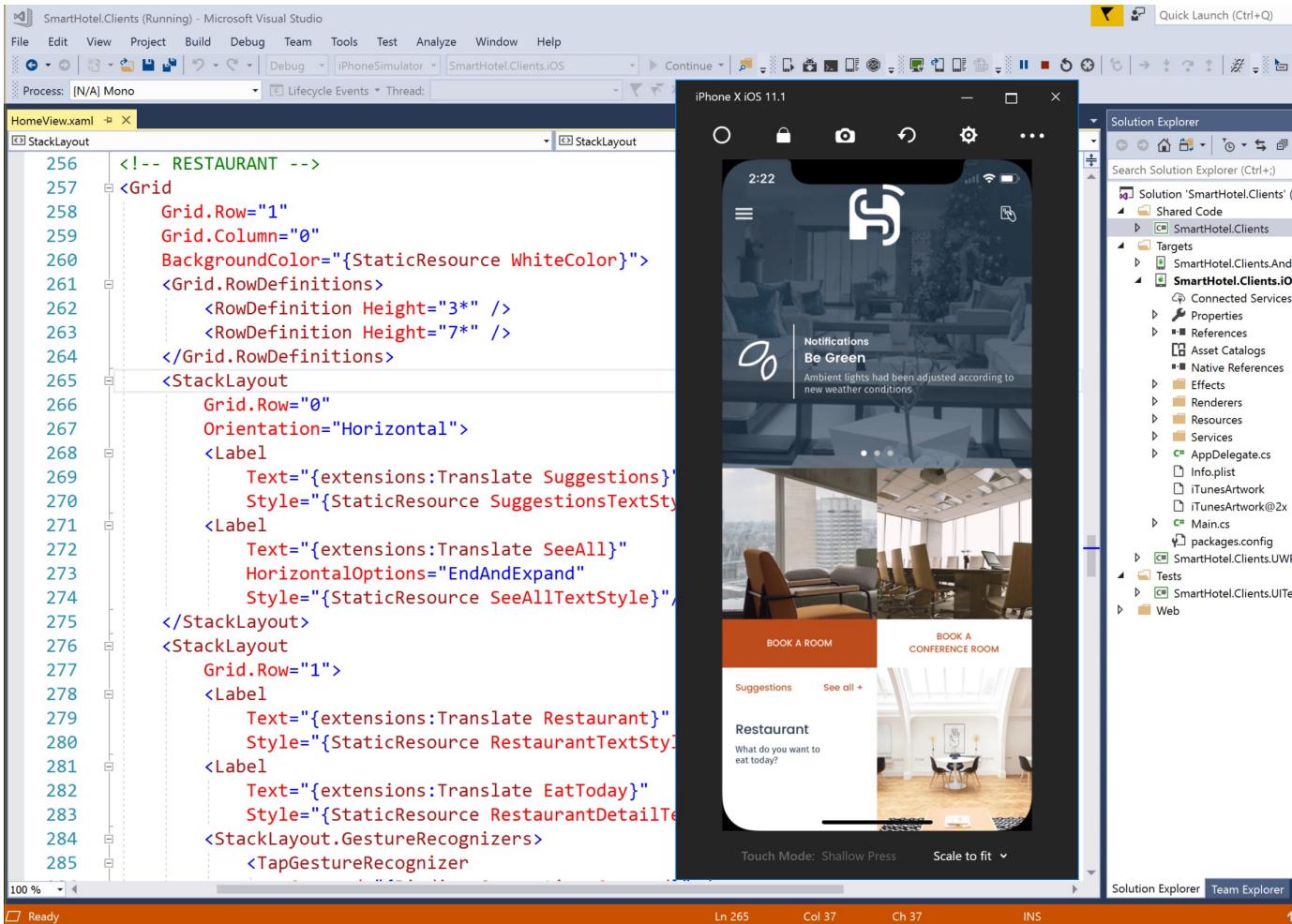
When you're ready to publish and distribute, connect a Mac or use a cloud service to finish the job.

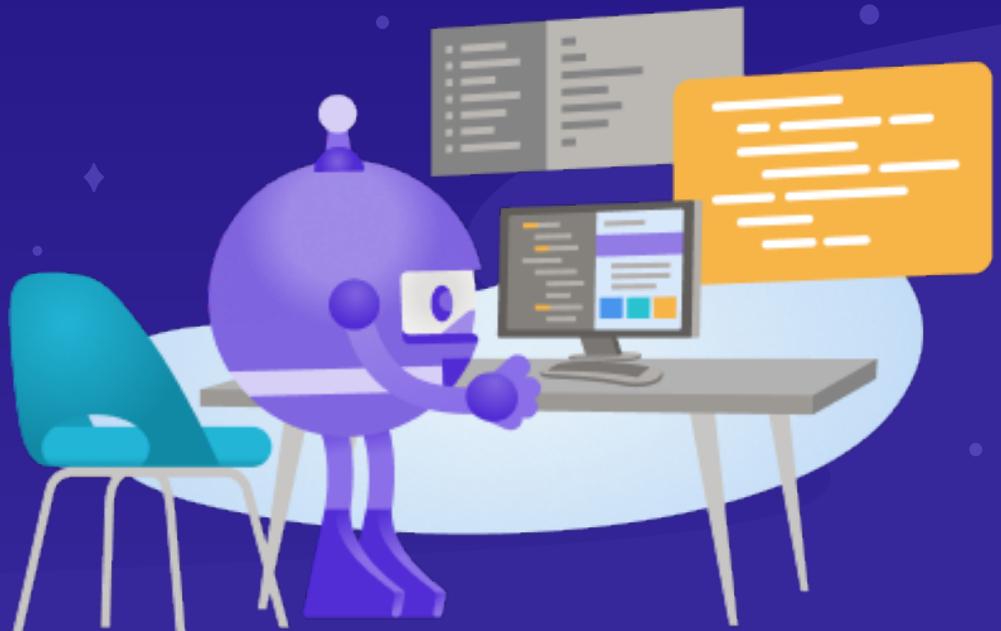


# Remote iOS Simulator

For more Apple features, connect your Visual Studio 2022 on Windows to a Mac on your local network. With this you get:

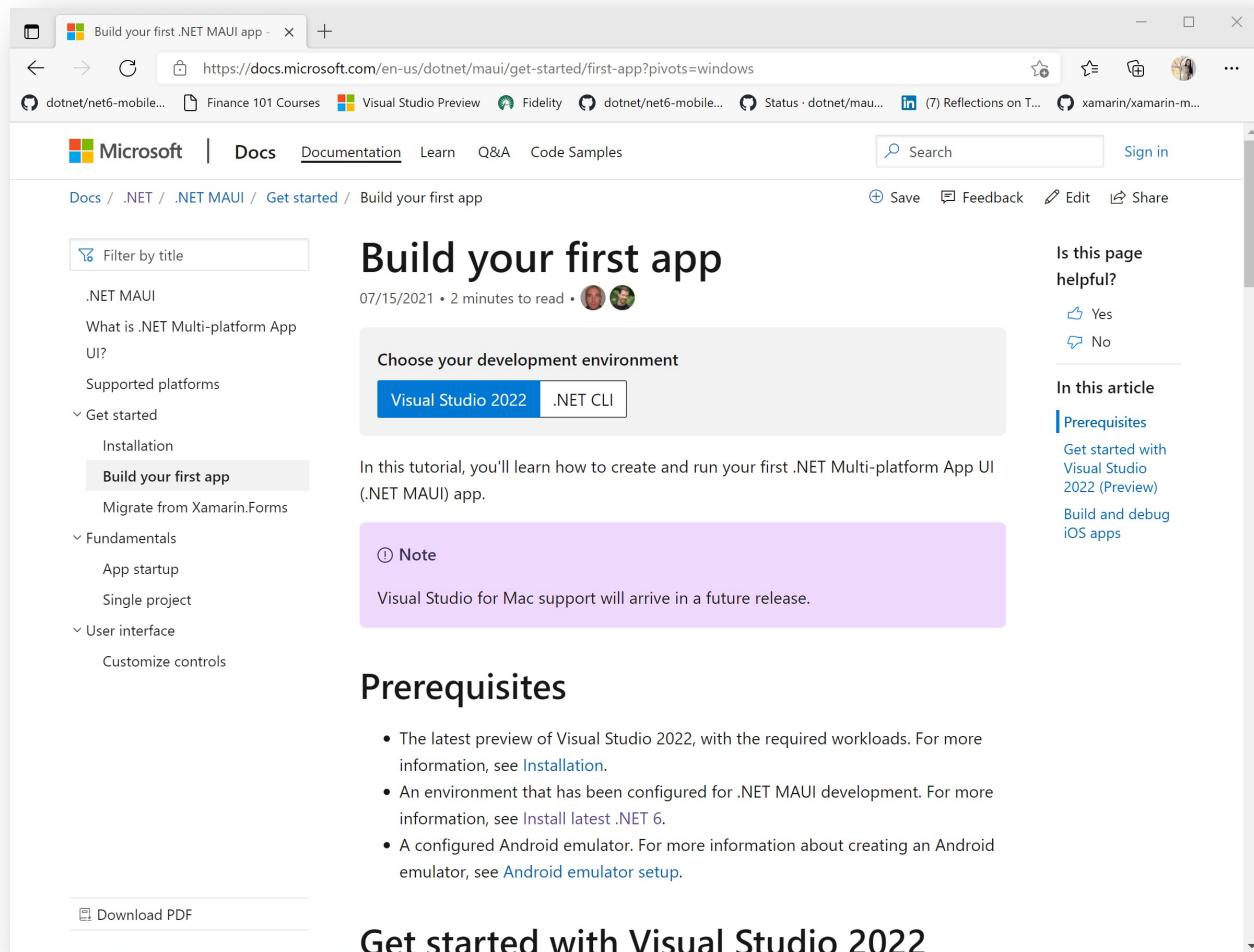
- Native Xcode builds over SSH
- Remote simulator
- Touchscreen support





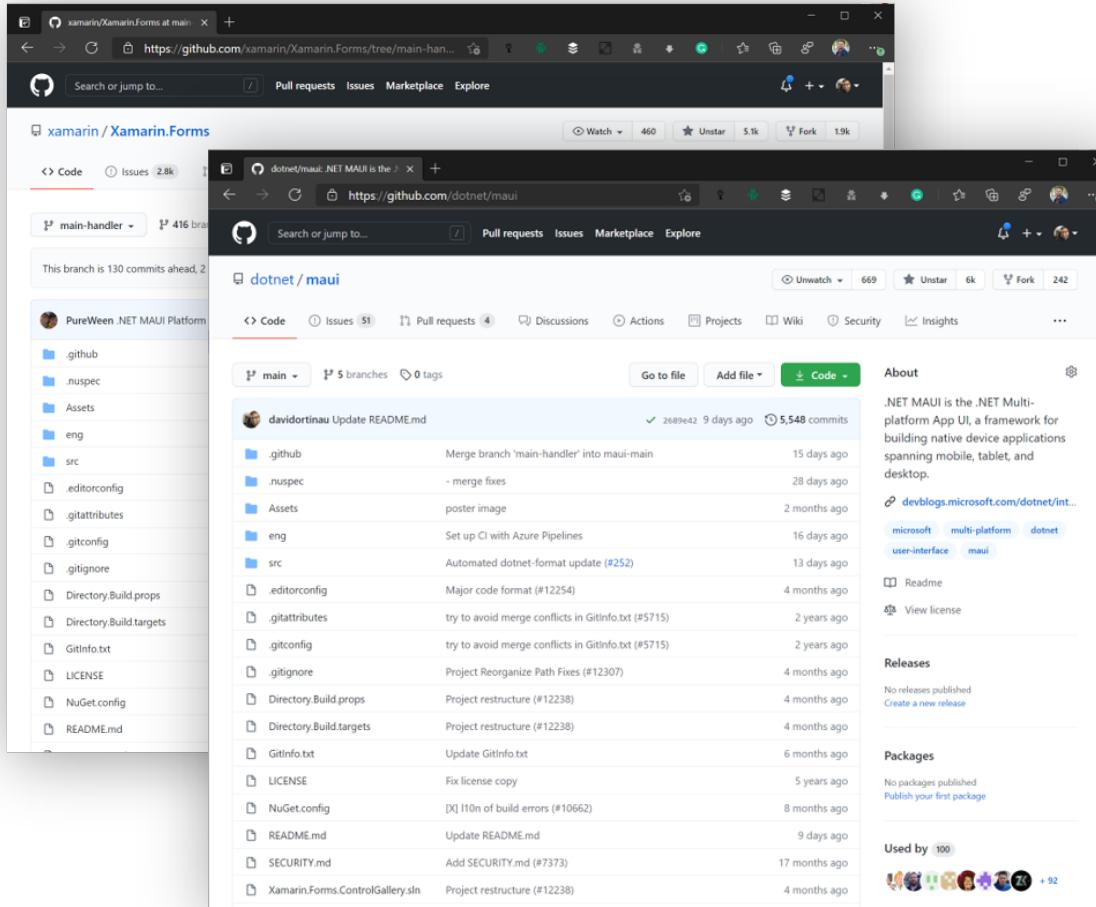
Stay tuned for .NET MAUI

# Check out .NET MAUI!



- Build your first app
  - <https://docs.microsoft.com/dotnet/maui/get-started/first-app?pivots=windows>
- Learn more about .NET MAUI
  - <https://docs.microsoft.com/dotnet/maui>

# Join our .NET MAUI community



- We are open source!

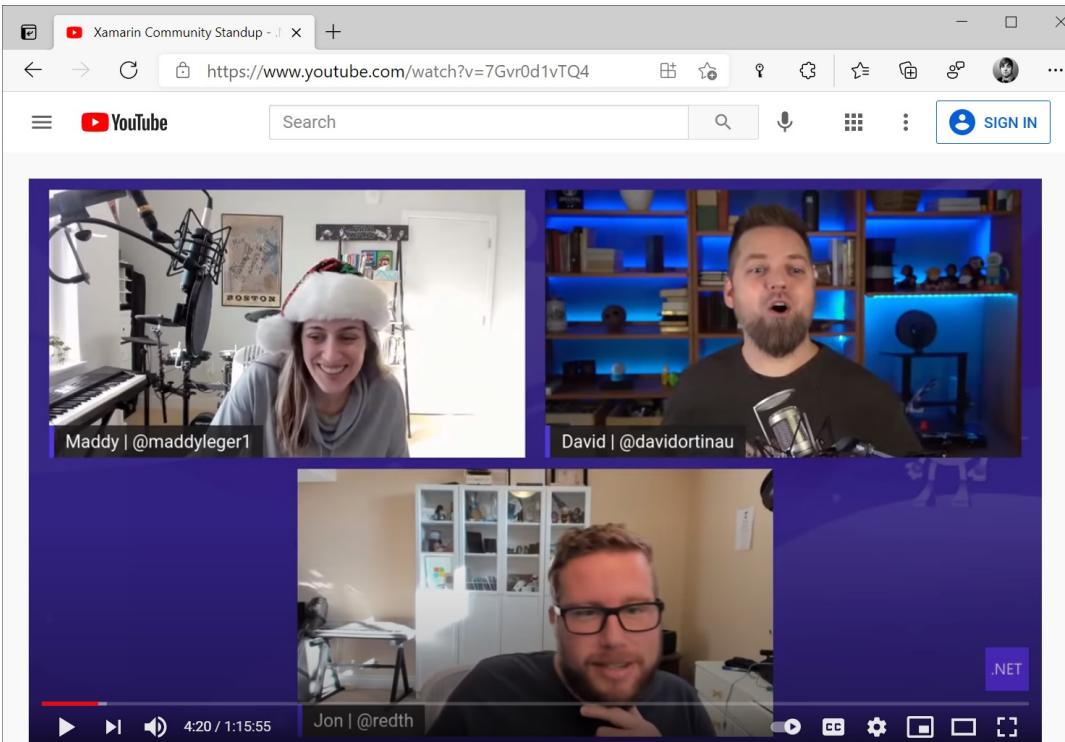
- GitHub

[https://github.com/dotnet/  
maui](https://github.com/dotnet/maui)

- Discord

<http://aka.ms/discord-maui>

# .NET Community Standup



<https://live.dot.net>

1<sup>st</sup> Thursday of the Month @  
11am PT / 1pm ET

- Community News
- Contributions
- .NET MAUI Status Report
- Shenanigans!

Top chat replay ▾

A Andre Alves Brazil  
Stefon Glover TGIF! 😊  
n37M4zy Gliwice, Poland!  
Gianluca Gentile Italy  
Paulo Henrique Busato Brazil  
Eric Hamrick Hello from Bangkok.  
S... U...

# Thanks for joining!

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