

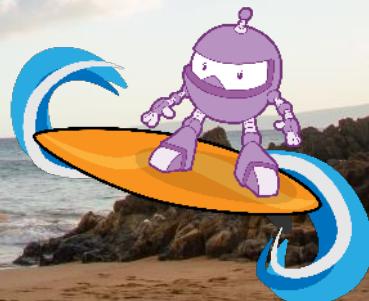
Let's go to MAUI!

The next generation of native cross platform development

lingen

cim

20
21



Tobias Hoppenthaler

Principal IT Consultant @ msg group

Focus on .net cross platform



@hot33331 on social media

<https://github.com/hot33331/cimlingen2021>





What is MAUI?

Demo

Why would you use it?

What's new?

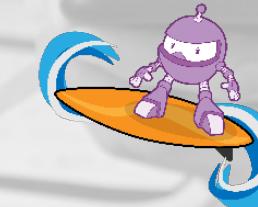
Summary

.NET Multi-platform App UI (.NET MAUI) is a cross-platform framework for creating native mobile and desktop apps with C# and XAML.
– Microsoft MAUI documentation





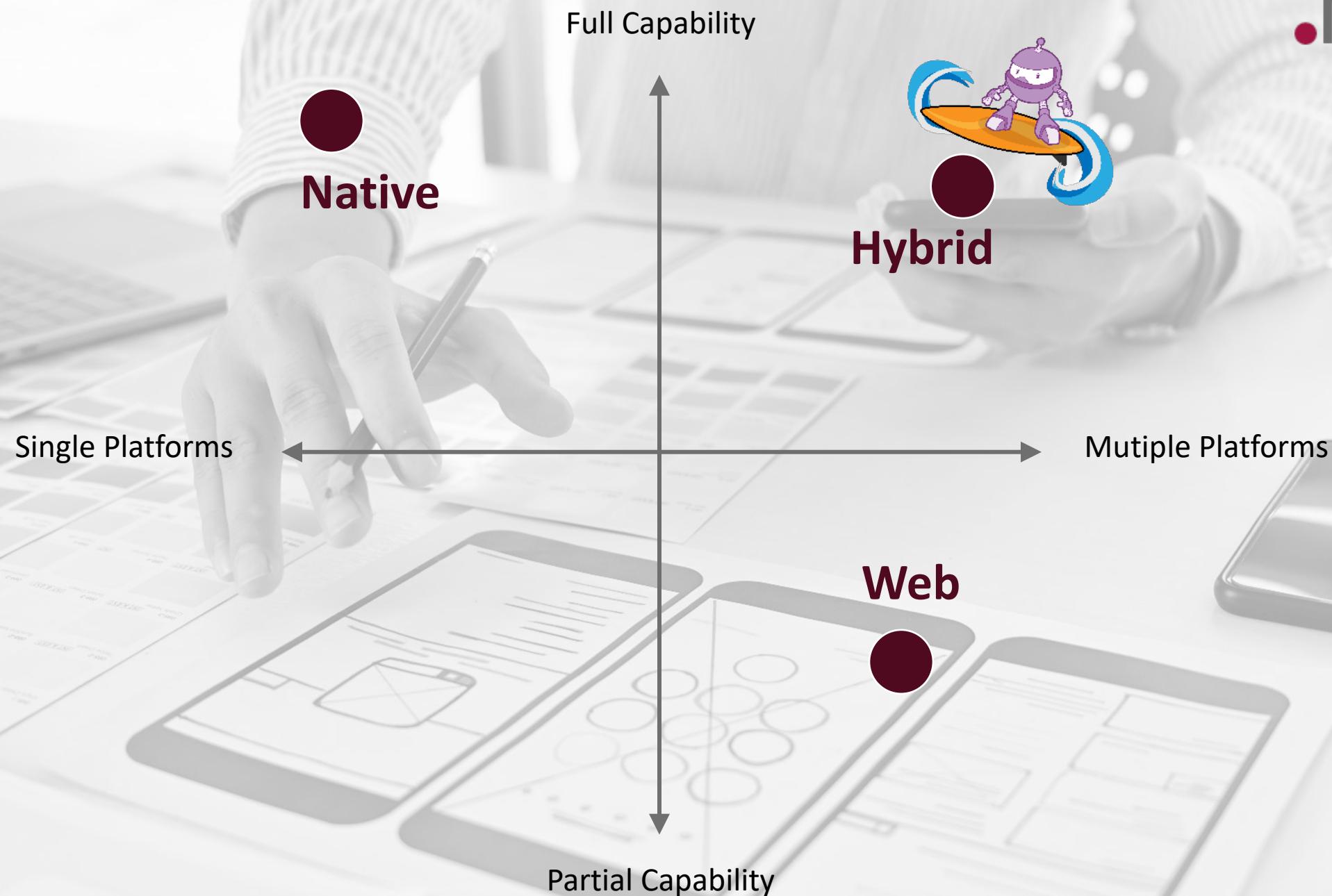
Xamarin native



.net for iOS / Android / ...

Xamarin Forms

.net MAUI



How does it work?



IPA



App1.exe
Forms.dll
My.dll
Json.net.dll



APK

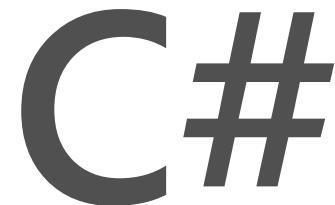


App1.exe
Forms.dll
My.dll
Json.net.dll

How does it work?

iOS—100% API coverage

MapKit	UIKit	iBeacon	CoreGraphics	CoreMotion
System.Net	System	System.IO	System.Linq	System.Xml
System.Data	System.Windows	System.Numerics	System.Core	System.ServiceModel

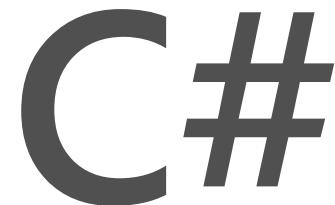


C#

How does it work?

Android—100% API coverage

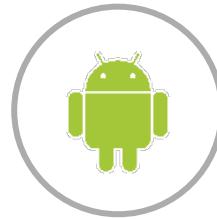
Text-to-speech	ActionBar	Printing Framework	Renderscript	NFC
System.Net	System	System.IO	System.Linq	System.Xml
System.Data	System.Windows	System.Numerics	System.Core	System.ServiceModel



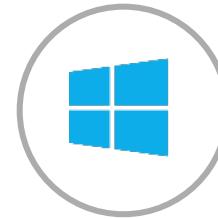
C#



iOS UI

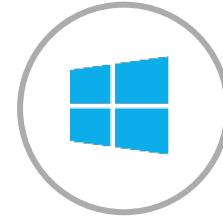


Android UI



Windows UI

Shared C# Logic



iOS UI

Android UI

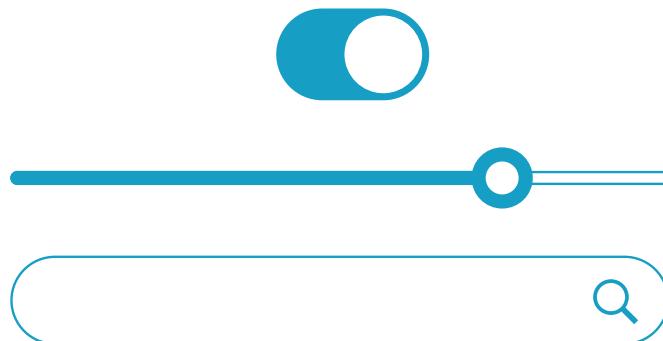
Windows UI

Xamarin Forms / MAUI

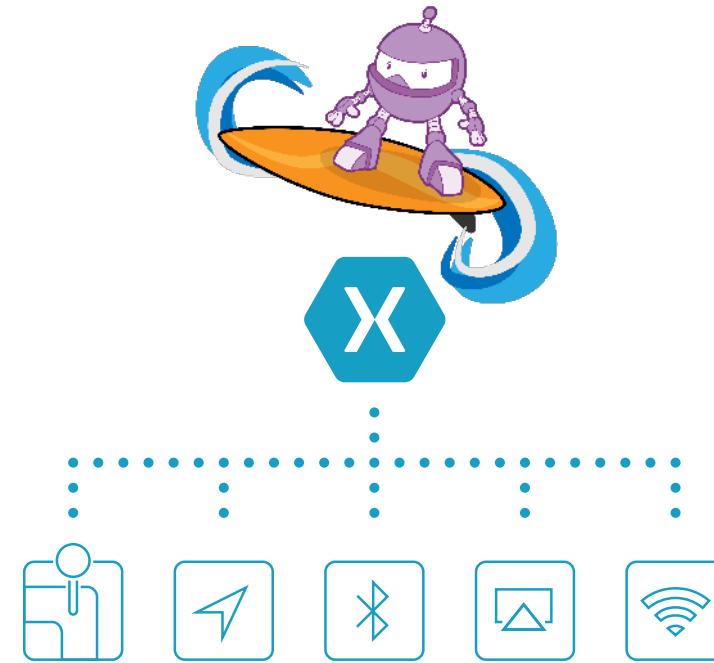
Shared C# Logic

Shared C# Logic

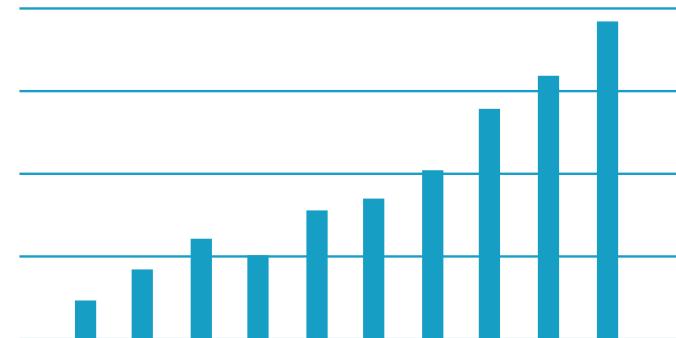
How does it work?



Native User Interfaces

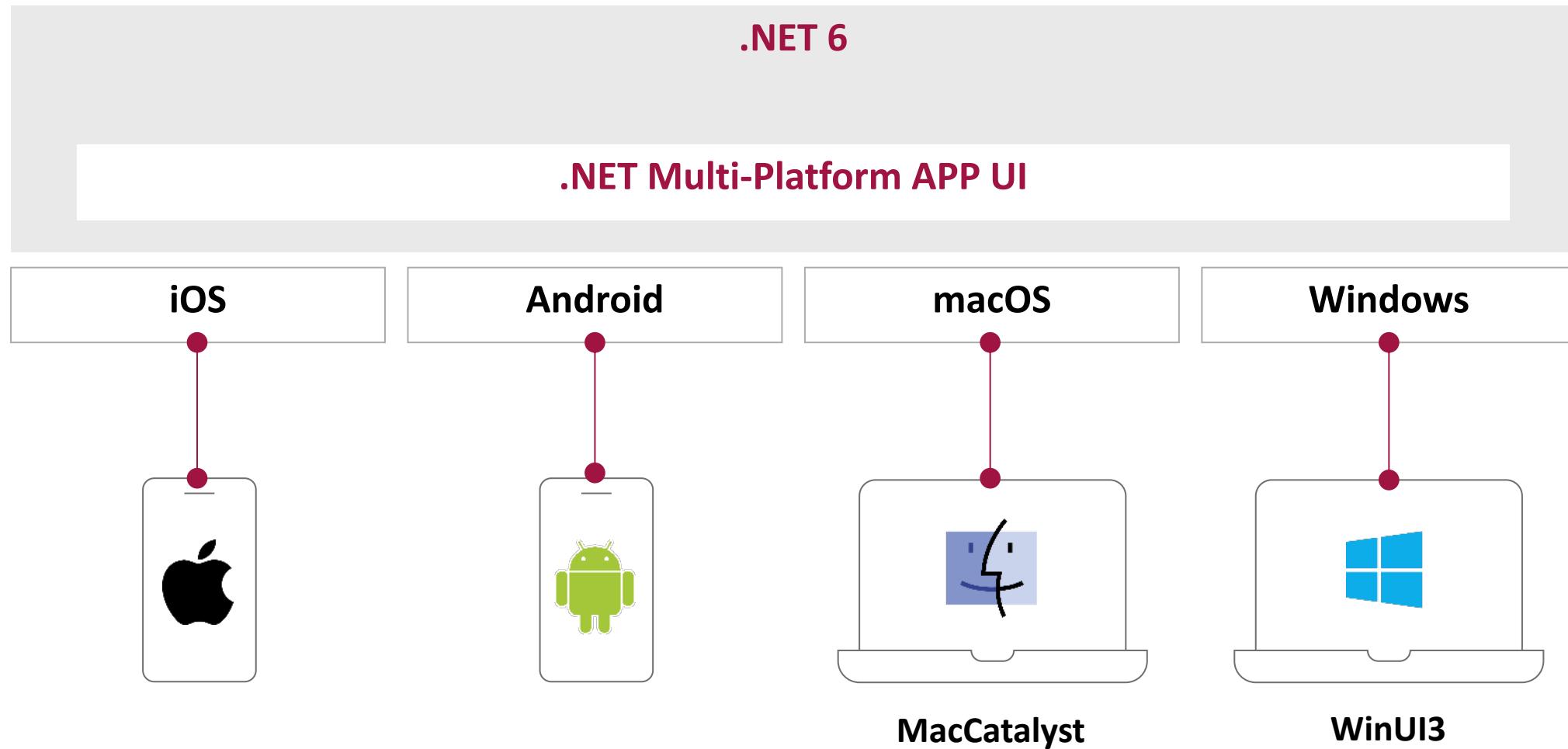


Native API Access



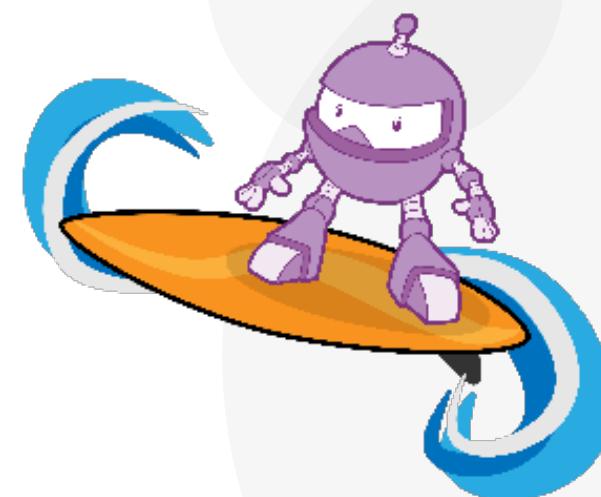
Native Performance

How does it work?



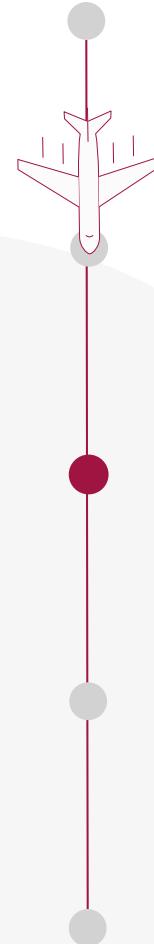


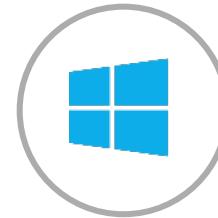
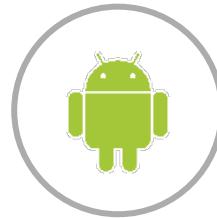
DEMO





Why?





iOS

Objective-C/Swift
Xcode

Android

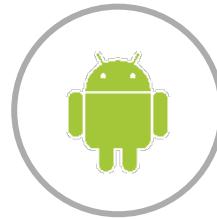
Java/Kotlin
Android Studio

Windows

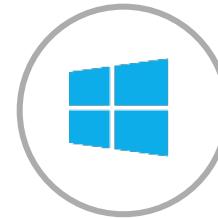
C#
Visual Studio



iOS UI

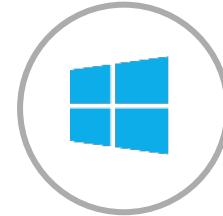


Android UI



Windows UI

Shared C# Logic



iOS UI

Android UI

Windows UI

Xamarin Forms / MAUI

Shared C# Logic

Shared C# Logic

What has changed?

What has changed?

Tighter integration in .net

New namespace: Microsoft.Maui

Handlers replace Renderers

MAUI + Blazor

Performance

App startup

What has changed?

Faster inner-loop development

Single project

Resizerizer NT built-in

Desktop support

Transition

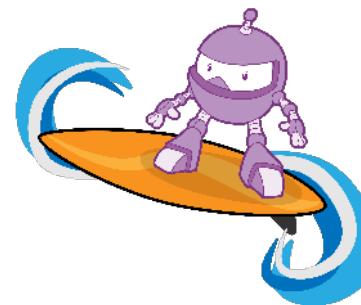
.msg

 Xamarin

 MAUI

Transition

- .NET Upgrade Assistant
- Backwards Compatibility Layer
 - 3rd party libs???



Update (September 14th): MAUI is now targeting Q2/2022 and will not be released with .NET V6
Xamarin 5 Support will be prolonged.

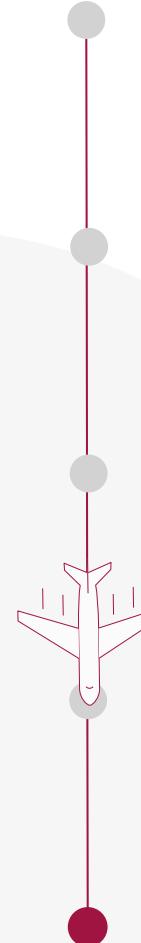


Welcome to MAUI

Mac: CLI+VSC / VS22 private preview

Win: VS22 public preview version 4

Complex Desktop: use Avalonia



A large, angled flight information display board filled with numerous yellow "DELAY" messages. The board is set against a dark background and has a grid pattern.

DELAY!!!

MAUI becomes GA ~~11/2021~~ Q2/22

Tooling is delayed

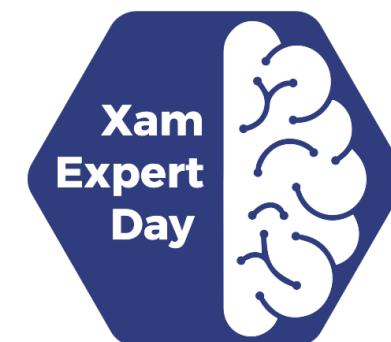
Xamarin reaches EOS ~~11/2022~~

How to get started?

.msg



www.xamexpertday.com



Let's connect!



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