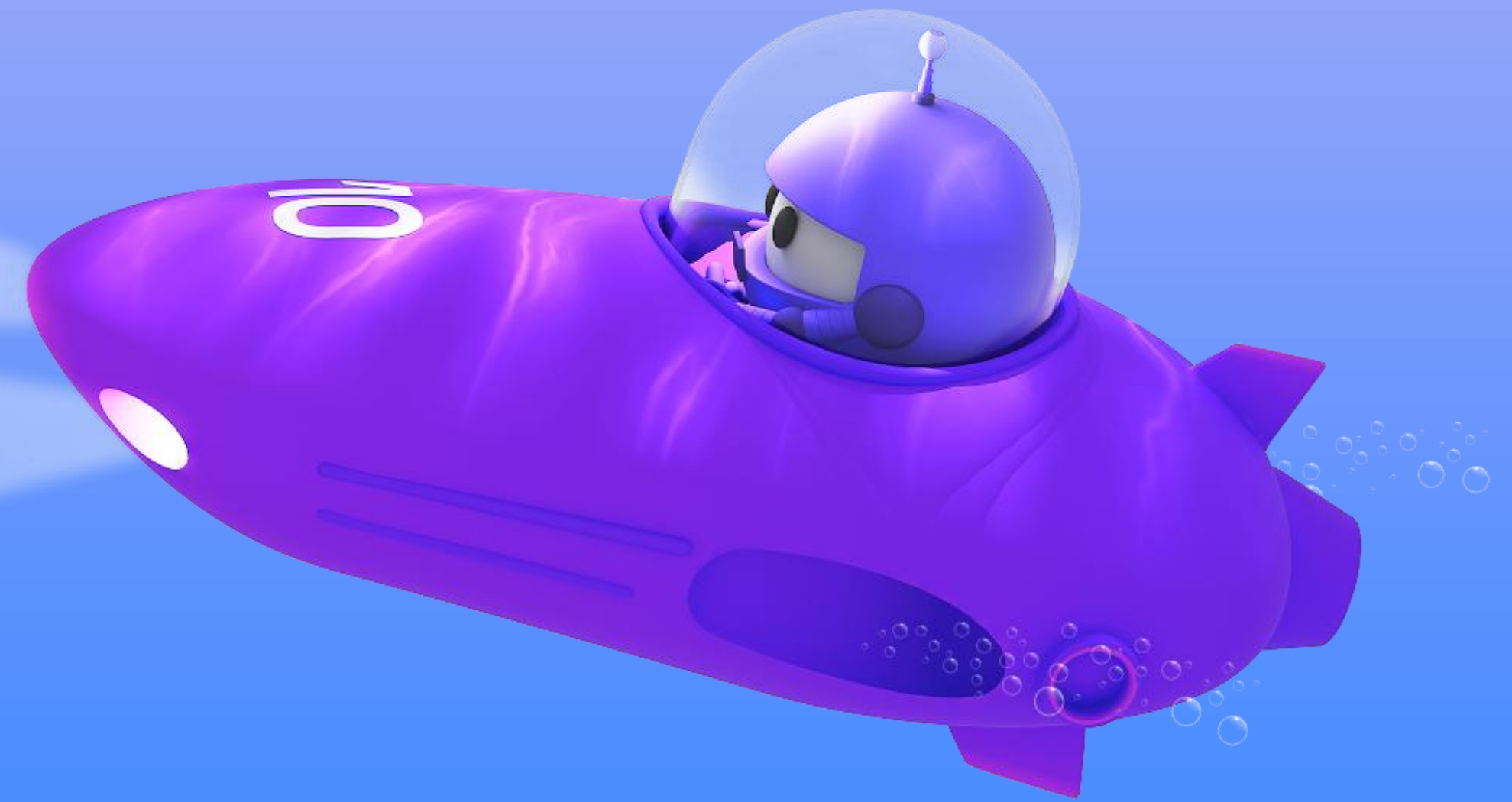# Community Toolkit Roundup

.NET

Who are we?

Michael A. Hawker

Windows Community Toolkit

Senior Software Engineer

Sergio Pedri

.NET Community Toolkit

Senior Software Engineer

Gerald Versluis

.NET MAUI Community Toolkit
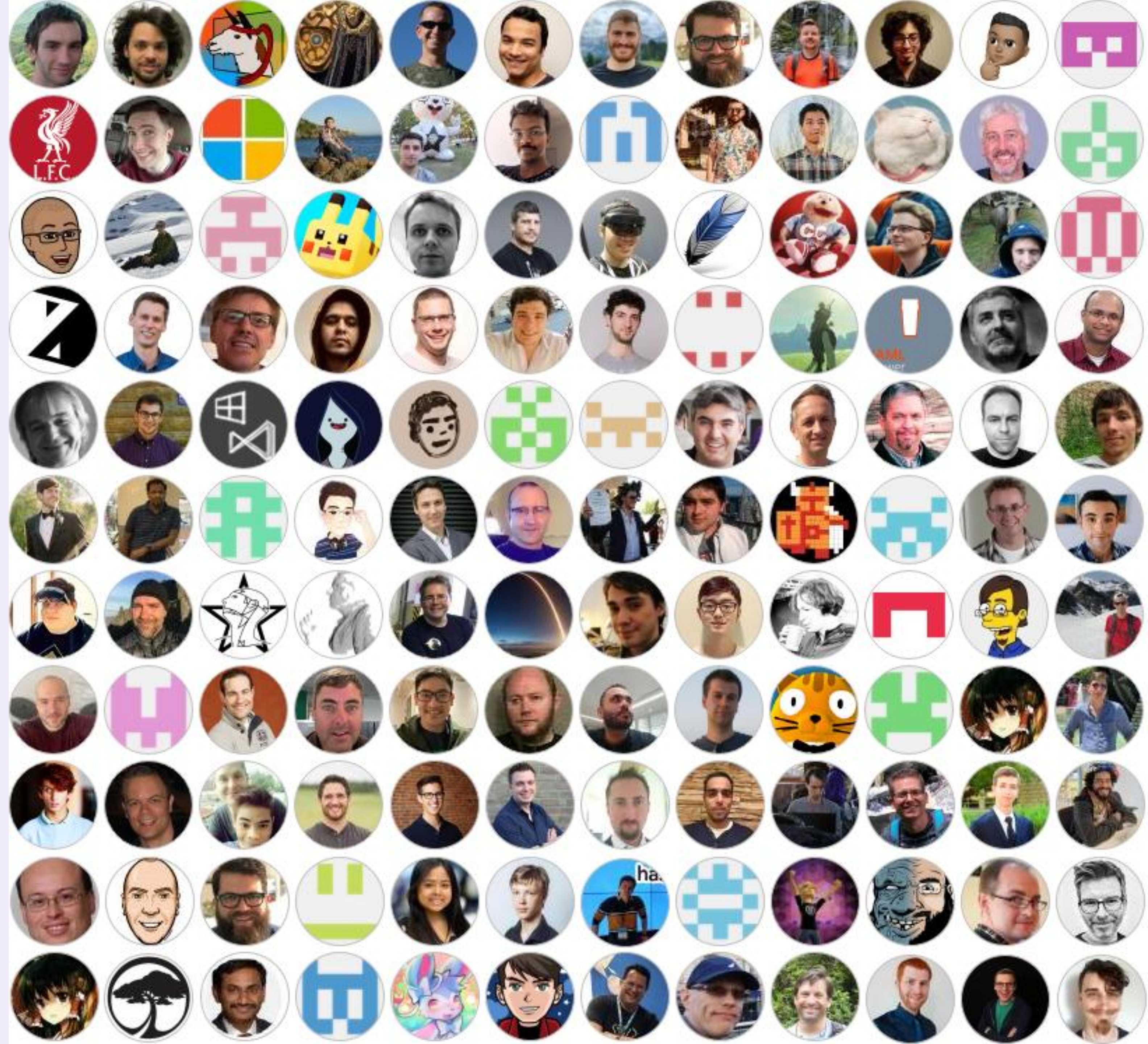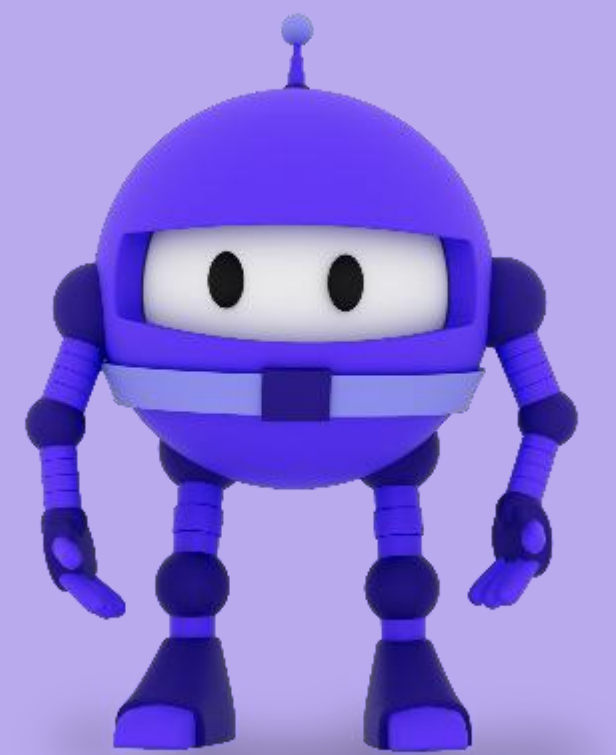
Senior Software Engineer

And You!

Table of contents

01 About the Toolkits

Community Toolkits

A collection of libraries that are:

- For .NET based technologies

- Open Source on GitHub

- MIT Licensed

- Part of the .NET Foundation

https://aka.ms/toolkit

ORG

.NET foundation

Community Toolkits
in Numbers

6+
Toolkit projects

170+
Packages on NuGet

76M+
Downloads on NuGet

16K+
Stars on GitHub

350+
Contributors

150+
Releases in 9 Years

Type / to search

Overview | Repositories 35 | Projects 8 | Packages | Teams 18 | People 131 | Security | Insights | Settings

Community Toolkit

The Community Toolkit organization holds a collection of control & helper libraries and samples for various .NET technologies. Part of the .NET Foundation.

👥 **1.5k** followers   🔗 https://learn.microsoft.com/dotnet/co...   🌐 Part of .NET Foundation

Follow

Pinned

Customize pins

📖 dotnet   Public

.NET Community Toolkit is a collection of helpers and APIs that work for all .NET developers and are agnostic of any specific UI platform. The toolkit is maintained and published by Microsoft, and ...

🟢 C#   ⭐ 3.5k   🍴 360

📖 Windows   Public

Collection of controls, helpers and extension for WinUI 2, WinUI 3, and Uno Platform developers. Simplifies and demonstrates common developer tasks building experiences for Windows with .NET.

🟢 C#   ⭐ 850   🍴 118

📖 Maui   Public

The .NET MAUI Community Toolkit is a community-created library that contains .NET MAUI Extensions, Advanced UI/UX Controls, and Behaviors to help make your life as a .NET MAUI developer easier

🟢 C#   ⭐ 2.6k   🍴 463

📖 MVVM-Samples   Public

Sample repo for MVVM package

⭐ 1.3k   🍴 252

📖 Aspire   Public

A community project with additional components and extensions for .NET Aspire

🟢 C#   ⭐ 503   🍴 133

📖 Datasync   Public

A collection of libraries that implement a client-server system used for synchronizing data from a cloud-based database.

🟢 C#   ⭐ 154   🍴 35

📖 Repositories

🔍 Find a repository...

Type ▾   Language ▾   Sort ▾   **📖 New**

👁 View as: Public ▾

You are viewing the README and pinned repositories as a public user.

You can create a README file visible to anyone.
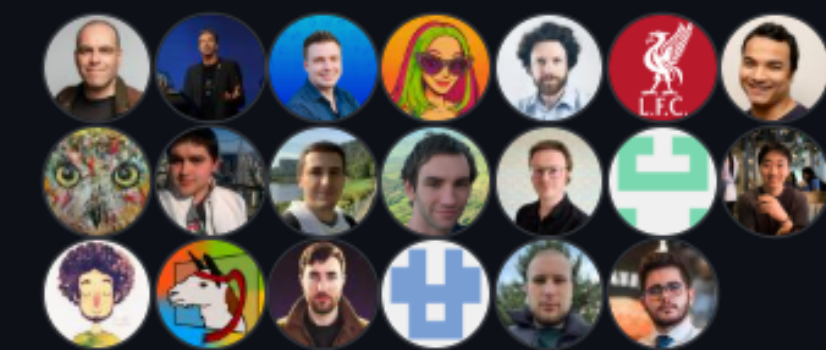
Get started with tasks that most successful organizations complete.

Discussions

Set up discussions to engage with your community!
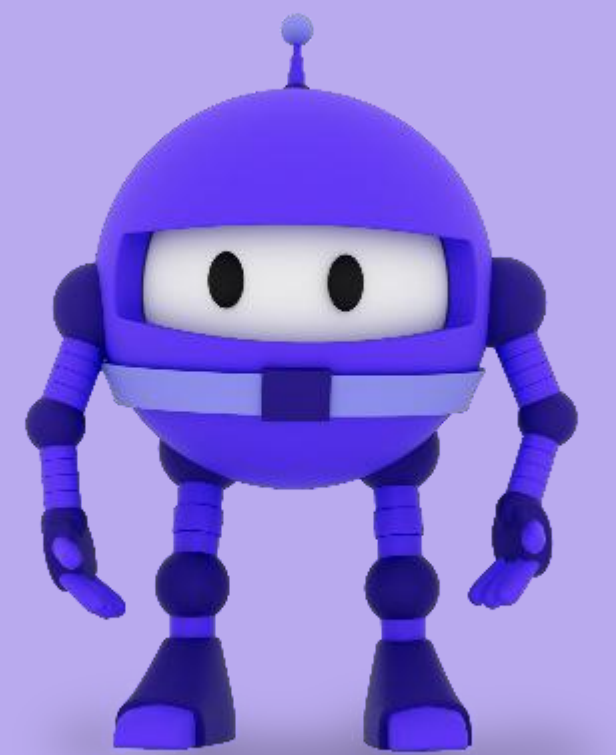
Turn on discussions

People

View all

Invite someone

02–05 The Toolkits

.NET
Community Toolkit

Collection of helpers and APIs that work for all .NET developers and are agnostic of any specific UI platform.

Partial properties support for `[ObservableProperty]`

New `ReadOnlySequence<byte>.AsStream()` extension

Lots of new analyzers to write more robust MVVM code

Plenty of other improvements and small new features!

AOT support for UWP and WinUI 3 XAML applications

HighPerformance and Diagnostics packages too 📦

aka.ms/mvvmtoolkitapp

Aspire
Community Toolkit

Additional components and extensions for .NET Aspire
(Aspire provides tools, templates, and packages for building
observable, production-ready distributed apps.)

Latest: v9.9
Next: v13.0

Aaron Powell

Principal Cloud Advocate

Grown from ~12 integration to over 50

Adopted and evolved the Dapr integration from Aspire

Over 50 contributors, with the majority being non-Microsoft

Covering a wide range of additional languages like Rust, Go, Java, Deno, and Bun

Extending built-in database integrations with more browser-based DB tools like DbGate

Actively working to support Aspire 13, with some features moving into Aspire directly

.NET MAUI
Community Toolkit

Latest: v12.3.0

Community-created library that contains .NET MAUI
Extensions, Advanced UI/UX Controls, and Behaviors.

Completely new Popup implementation

CameraView video recording

Offline Speech Recognition

Loads of bugfixes

MediaElement on Media3 for Android

Continued efforts on stability and quality

Windows
Community Toolkit

Latest: v8.2

Collection of controls, helpers and extension for
WinUI 2, WinUI 3, and Uno Platform developers.

Native AOT and UWP Support for .NET 9+

DispatcherQueueTimer.Debounce

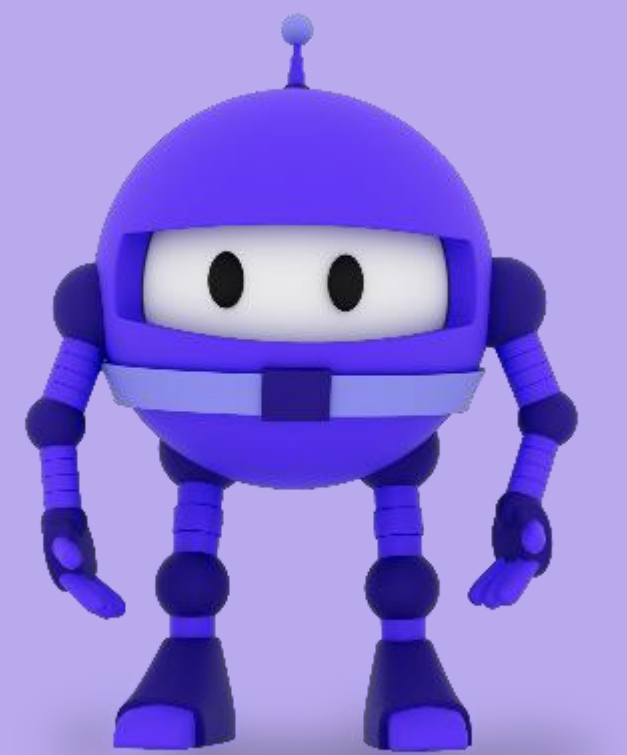SwitchPresenter Improvements & SwitchConverter
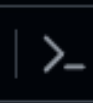
And much, much, more is here for WinUI devs!

In-app AcrylicBrush for WinUI3

WCT Labs: *DependencyPropertyGenerator* & *OpacityMaskView*

aka.ms/windowstoolkitapp

06 Contributing

Community Toolkit

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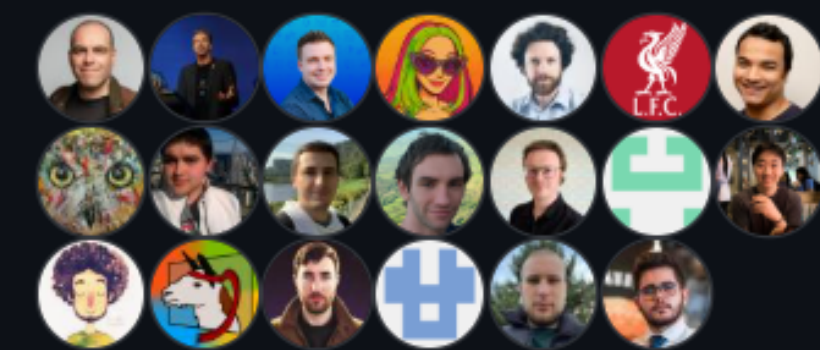
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Get started with tasks that most successful organizations complete.

Discussions

Set up discussions to engage with your community!

Turn on discussions

People

View all

Invite someone

[Proposal] CameraView minimal port #259
#1758

Detailed Design

CameraView.shared.cs

```csharp
public class CameraView : View
{
    public static readonly BindableProperty IsCameraViewBusyProperty;
    public static readonly BindableProperty IsAvailableProperty;
    public static readonly BindableProperty FlashModeProperty;

    // Use WeakEventManager
    public event EventHandler<bool>? OnAvailable;
    public event EventHandler<MediaCapturedEventArgs>? MediaCaptured;
    public event EventHandler<string>? MediaCaptureFailed;

    public bool IsCameraViewBusy { get; }
    public bool IsAvailable { get; }
    public CameraOptions CameraOptions { get; set; }
    public void Shutter();
}
```

Usage Syntax

XAML Usage

```xml
<ContentPage xmlns="http://xamarin.com/schemas/2014/forms"
             xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
             xmlns:xct="http://xamarin.com/schemas/2020/toolkit"
             x:Class="MyLittleApp.MainPage">

    <StackLayout>
        <xct:CameraView
                x:Name="cameraView"
                FlashMode="On"
                MediaCaptured="CameraView_MediaCaptured"
                HorizontalOptions="FillAndExpand"
                VerticalOptions="FillAndExpand" />
    </StackLayout>
</ContentPage>
```

C# Usage

```csharp
class MyPage : ContentPage
{
    public MyPage()
    {
        Content = new CameraView
```

New row not created for last child in WrapPanel when StretchChild=Last #743

michael-hawker opened last week   Member

As I was writing up the spec for the WinUI transfer and looking at primitive examples and was a bit baffled at what was happening with StretchChild and my intuitive expectations...

Take this code:

```xml
<controls:WrapPanel Width="132" StretchChild="Last">
    <Rectangle Fill="Red" Width="45" Height="44"/>
    <Rectangle Fill="Blue" Width="44" Height="44"/>
    <Rectangle Fill="Green" Width="44" Height="44"/>
    <Rectangle Fill="Orange" Height="44"/>
</controls:WrapPanel>
```

This properly stretches the last item across the bottom:

However, if we make enough room for the green box on the first row (by making the red 44 width [only change])...

```xml
<controls:WrapPanel Width="132" StretchChild="Last">
    <Rectangle Fill="Red" Width="44" Height="44"/>
    <Rectangle Fill="Blue" Width="44" Height="44"/>
    <Rectangle Fill="Green" Width="44" Height="44"/>
    <Rectangle Fill="Orange" Height="44"/>
</controls:WrapPanel>
```

Actual: Then the Orange rect disappears entirely!

Expected: I would expect it to span the entire bottom row, like so:

Find by title

Learn / .NET /

Community Toolkits for .NET Documentation

The home for Community Toolkits for .NET which are partnering the community with engineers, Microsoft MVPs, and the teams working on those technologies. The Community Toolkits offer a collection of reusable implementations that aim to simplify common development tasks for a variety of .NET frameworks.

.NET Community Toolkit

OVERVIEW

What is the .NET Community Toolkit?

REFERENCE

Introduction to the MVVM Toolkit

Introduction to the Diagnostics Package

Introduction to the High Performance Package

GET STARTED

Installation

.NET Aspire Community Toolkit

OVERVIEW

.NET Aspire Community Toolkit overview

GET STARTED

Ollama (AI)

Azure Static Web Apps

Python hosting extensions

SQLite Entity Framework Core

SAMPLE

.NET Aspire Community Toolkit GitHub repo ⧉

Windows Community Toolkit

OVERVIEW

What is the Windows Community Toolkit?

QUICKSTART

Windows Community Toolkit Gallery ⧉

REFERENCE

Graph Helpers and Controls

GET STARTED

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Using with Uno Platform ⧉

.NET Multi-platform App UI (.NET MAUI) Community Toolkit

OVERVIEW

What is the .NET MAUI Community Toolkit?

GET STARTED

Installation

.NET MAUI Native Library Interop

OVERVIEW

What is the Native Library Interop?

GET STARTED

Getting started with Native Library Interop

🗎 Download PDF

Getting in Touch

GitHub!

.NET MAUI Community Standups

Windows App Community Discord
https://windowsappcommunity.com/

X/Twitter: **@XAMLLlama @SergioPedri @jfversluis**

Bluesky: **@xamlllama.bsky.social @jfversluis.dev**

.NET MAUI Community Toolkit Discord
https://aka.ms/mct/discord

Resources

aka.ms/toolkit

aka.ms/toolkit/docs

github.com/CommunityToolkit/Aspire

github.com/CommunityToolkit/dotnet

github.com/CommunityToolkit/Maui

github.com/CommunityToolkit/Windows

Thank you