

.NET MAUI All-in-One Templates Pack

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Introduction

This VS extension is loaded with Projects, Item Templates, and Code Snippets for working with .NET MAUI in Visual Studio 2022 (on both x64 and ARM64 installations).

Project Templates

- .NET MAUI App – All All-in-One App Project Template. For more details, check out these [articles](#)
- .NET MAUI Class Library
- Shared Class Library (targeting both Xamarin.Forms and .NET MAUI)

Item Templates

Made available in the section titled **MAUI** in the **Add New Item** dialog.

Generic Template in XAML and C# and has been named as:

- Generic Item
- Generic Item (C#)

ContentPage in XAML, C#, and Razor and has been named as:

- Content Page
- Content Page (C#)
- Content Page (Razor)
- Content Page with BlazorWebView
- Content Page with BlazorWebView (C#)
- Content Page with ViewModel
- Content Page (C#) with ViewModel

ContentView in XAML, C#, and Razor and has been named as:

- Content View
- Content View (C#)
- Content View (Razor)

Shell, in XAML, C#, and Razor, is a page for defining app visual hierarchy along with navigation.

ResourceDictionary, a page for managing resources made available with C# code-behind file and XAML only (as the code-behind is used rarely).

Templates for creating a Custom View definition:

- Custom View and Handler (Regular) (.NET MAUI)
- Custom View and Handler (Cond.) (.NET MAUI)
- Custom View and Renderer (Regular) (.NET MAUI)
- Custom View and Renderer (Cond.) (.NET MAUI)
- **Regular type template** generates the Handler / Renderer source files in the Platforms folder whereas **Cond. type template** houses all of them in a single folder.
- *For conditional type format, ensure Conditional Compilation is configured in the project file for the build to succeed. An additional option is provided during project creation (in both VS IDE and CLI) (or manually thereafter). Check out this [readme](#) for further details.*

Partial Class, a C# class (partial), useful for defining *ViewModel* type with the *MVVM Toolkit*, is made available in the section titled **Code**.

Code Snippets

For XAML

On the XAML page, type the short name and hit the Tab key twice to insert the snippet.

Snippets mentioned in boldface also work as a **SurroundWith** snippet too (from the **Xaml** section).

In the Output Format column, text highlighted in different colors infers the following:

- **Yellow** colors are placeholders where the user can modify the values
- **Green** colors are derived values and can't be modified. For example, containing the class name
- **Turquoise** colors are reflected values, where the placeholder value is filled in

Snippet	Short Name	Output Format
Grid	grid1	<Grid ColumnDefinitions="" RowDefinitions=""> </Grid>
Flex Layout	flex	<FlexLayout> </FlexLayout>
Stack Layout	stack	<StackLayout> </StackLayout>
Horizontal Stack Layout	hstack	<HorizontalStackLayout> </HorizontalStackLayout>
Vertical Stack Layout	vstack	<VerticalStackLayout> </VerticalStackLayout>
Style	style	<Style TargetType="Page"> <Style>
Color	color	<Color x:Key="Success">Green</Color>
Resources	res	<ContentPage.Resources> <ResourceDictionary> </ResourceDictionary> </ContentPage.Resources>
Gestures	gesture	<Label.GestureRecognizers> </Label.GestureRecognizers>
Tap Gesture Recognizer	tap	<TapGestureRecognizer />
Drag Gesture Recognizer	drag	<DragGestureRecognizer />
Drop Gesture Recognizer	drop	<DropGestureRecognizer />
Pan Gesture Recognizer	pan	<PanGestureRecognizer />
Pinch Gesture Recognizer	pinch	<PinchGestureRecognizer />
Pointer Gesture Recognizer	Pointer	<PointerGestureRecognizer />

Snippet	Short Name	Output Format
Swipe Gesture Recognizer	swipe	<SwipeGestureRecognizer />
Blazor Web View	bwv	<BlazorWebView HostPage="wwwroot/index.html"> <BlazorWebView.RootComponents> <RootComponent ComponentType="{x:Type }" Selector="#app" /> </BlazorWebView.RootComponents> </BlazorWebView>
.NET MAUI Blazor Namespace	mb	xmlns:b="clr-namespace:Microsoft.AspNetCore.Components.WebView.Maui ;assembly=Microsoft.AspNetCore.Components.WebView.Maui"
WPF Blazor Namespace	wb	xmlns:b="clr-namespace:Microsoft.AspNetCore.Components.WebView.Wpf ;assembly=Microsoft.AspNetCore.Components.WebView.Wpf"

For C#

In the C# code file, type the short name and hit the Tab key twice to insert the snippet.

Snippets mentioned in boldface also work as a **SurroundWith** snippet (from the **CSharp** section).

In the Output Format column, text highlighted in different colors infers the following:

- **Yellow** colors are placeholders where the user can modify the values
- **Green** colors are derived values, and can't be modified. For example, containing the class name
- **Turquoise** colors are reflected values, where the placeholder value is filled in

Snippet	Short Name	Output Format
Async Event Handler	aeH	<pre>private async void MyMethod(object sender, EventArgs e) { }</pre>
Attached Property	propap	<p>Here assuming MyClass is the containing type.</p> <pre>public static readonly BindableProperty NameProperty = BindableProperty.CreateAttached(nameof(NameProperty), typeof(string), typeof(MyClass), default(string)); public static string GetName(BindableObject bindable) => (string)bindable.GetValue(NameProperty); public static void SetName(BindableObject bindable, string value) => bindable.SetValue(NameProperty, value);</pre>
Bindable Property	propbp	<p>Here assuming MyClass is the containing type.</p> <pre>public static readonly BindableProperty NameProperty = BindableProperty.Create(nameof(Name), typeof(string), typeof(MyClass), default(string)); public string Name { get => (string)GetValue(NameProperty); set => SetValue(NameProperty, value); }</pre>
Comet Property (MVU)	<p><u>propc</u></p> <p>(This has been shortened to propc from propcomet)</p>	<pre>public string Name { get => GetProperty<string>(); set => SetProperty(value); }</pre>

Snippet	Short Name	Output Format
Cross Platform	<u>cp</u> (This has been updated to cp from xplat)	#if ANDROID #elif IOS #elif MACCATALYST #elif TIZEN #elif WINDOWS #endif
Event Handler	eh	private void MyMethod (object sender, EventArgs e) { }
Method	method	private void MyMethod () { }
Async Method	amethod	private async Task MyMethod () { }
Record (C# 9.0 or higher)	record	record MyRecord { }
Record Struct (C# 10.0 or higher)	<u>rstruct</u> (This has been updated to rstruct from recstruct)	record struct MyRecStruct { }
Observable Property (CommunityToolkit.Mvvm)	propop	[ObservableProperty] private string name ;

Snippet	Short Name	Output Format
Relay Command (CommunityToolkit.Mvvm)	rcmd	<pre>[RelayCommand] private void DoSomething() { }</pre>
Async Relay Command (CommunityToolkit.Mvvm)	arcmd	<pre>[RelayCommand] private async Task DoSomethingAsync() { }</pre>
ViewModel Property	propvm	<pre>private string name; public string Name { get => name; set => SetProperty(ref name, value); }</pre>
C# Markup Extension Method	cmem	<pre>public static TBindable MyMethod<TBindable>(this TBindable bindable) where TBindable : BindableObject { return bindable; }</pre>

Support

Currently, this VS extension can be installed on top of VS2022 17.6.0 or higher with .NET MAUI workload as its prerequisite (covering from .NET MAUI 6/7/8 GA and its Service Releases and .NET 9 Previews) on both x64 and ARM64 installations. To support further changes in newer .NET MAUI releases, an update to this VS extension will be made available accordingly.

If you come across any issues or have suggestions to improve these templates, kindly log them as issues [here](#).