

.NET MAUI Project Templates, Item Templates and Code Snippets

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Introduction

This VS extension is loaded with Project, Item Templates and Code Snippets for working with .NET MAUI in Visual Studio 2022.

Project Templates

- .NET MAUI App – All All-in-One App Project Template. For more details check out this [blog post](#)
- .NET MAUI App (C#)
- .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.

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

- Content Page (.NET MAUI)
- Content Page (C#) (.NET MAUI)

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

- Content View (.NET MAUI)
- Content View (C#) (.NET MAUI)

Shell, a page for defining app visual hierarchy along with navigation.

ResourceDictionary, a page for managing resources, in both the formats of with code-behind file and XAML only (as its the C# code-behind is used rarely).

New Item Templates for creating a Custom View definition:

- .NET MAUI 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.)
- 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.*

Code Snippets

For XAML

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

Snippets mentioned in bold-face also works as a **SurroundWith** snippet too (from **Xaml** section).

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

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

Snippet	Short Name	Output Format
Grid	grid	<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>

Snippet	Short Name	Output Format
Style	style	<pre><Style TargetType="Page"> <Style></pre>
Color	color	<pre><Color x:Key="Success">Green</Color></pre>
Resources	res	<pre><ContentPage.Resources> <ResourceDictionary> </ResourceDictionary> </ContentPage.Resources></pre>
Gestures	gesture	<pre><Label.GestureRecognizers> </Label.GestureRecognizers></pre>
Tap Gesture Recognizer	tap	<pre><TapGestureRecognizer /></pre>
Drag Gesture Recognizer	drag	<pre><DragGestureRecognizer /></pre>
Drop Gesture Recognizer	drop	<pre><DropGestureRecognizer /></pre>
Pan Gesture Recognizer	pan	<pre><PanGestureRecognizer /></pre>
Pinch Gesture Recognizer	pinch	<pre><PinchGestureRecognizer /></pre>
Swipe Gesture Recognizer	swipe	<pre><SwipeGestureRecognizer /></pre>
Blazor Web View	bwv	<pre><b:BlazorWebView HostPage="wwwroot/index.html"> <b:BlazorWebView.RootComponents> <b:RootComponent ComponentType="{x:Type }" Selector="#app" /> </b:BlazorWebView.RootComponents> </b:BlazorWebView></pre>
.NET MAUI Blazor Namespace	mb	<pre>xmlns:b="clr- namespace:Microsoft.AspNetCore.Components.WebView.Maui ;assembly=Microsoft.AspNetCore.Components.WebView.Maui"</pre>

Snippet	Short Name	Output Format
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 bold-face also works as a **SurroundWith** snippet too (from **CSharp** section).

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

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

Snippet	Short Name	Output Format
Async Event Handler	aeH	private async void MyMethod (object sender, EventArgs e) { }
Attached Property	propap	<i>Here assuming MyClass is the containing type.</i> public static readonly BindableProperty Name Property = BindableProperty.CreateAttached(nameof(NameProperty), typeof(string), typeof(MyClass), default(string)); public static string Get Name (BindableObject bindable) => (string)bindable.GetValue(NameProperty); public static void Set Name (BindableObject bindable, string value) => bindable.SetValue(NameProperty , value);

Snippet	Short Name	Output Format
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)	<u>propc</u> (This has been shortened to propc from propcomet)	<pre> public string Name { get => GetProperty<string>(); set => SetProperty(value); } </pre>
Cross Platform	<u>cp</u> (This has been updated to cp from xplat)	<pre> #if ANDROID #elif IOS #elif MACCATALYST #elif TIZEN #elif WINDOWS #endif </pre>
Event Handler	eh	<pre> private void MyMethod(object sender, EventArgs e) { } </pre>
Method	method	<pre> private void MyMethod() { } </pre>

Snippet	Short Name	Output Format
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 { }
ViewModel Property	propvm	private string name; public string Name { get => name; set => SetProperty(ref name, value); }
C# Markup Extension Method	cmem	public static TBindable MyMethod<TBindable>(this TBindable bindable) where TBindable : BindableObject { return bindable; }

Support

Currently, this extension can be installed on top of VS2022 17.3 Preview 1.1 or higher with .NET MAUI workload as its prerequisite (covers GA and SR1 releases) and 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](#).