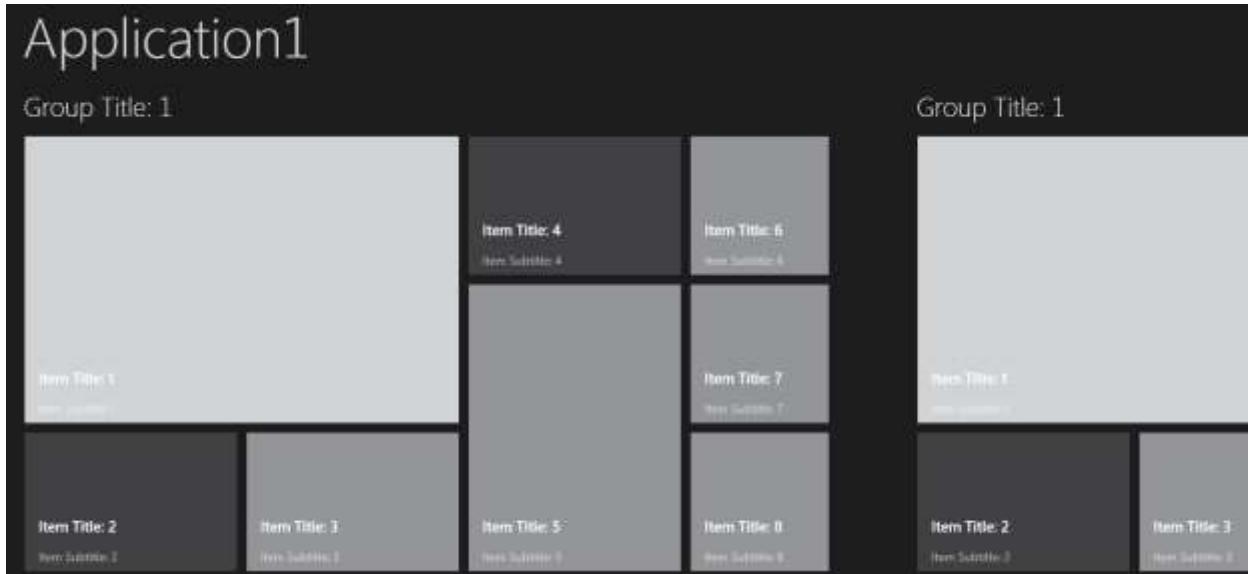


Chapter 1: Introduction to WinUI

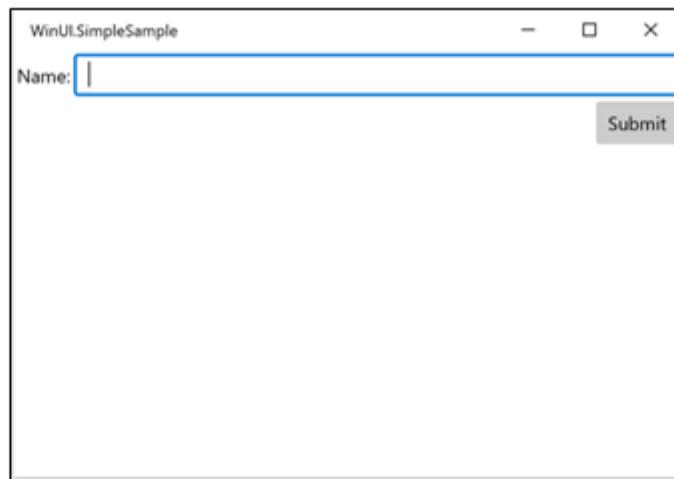


	Windows 8 XAML App	Windows 10 UWP App
Window Type	Full screen only	Resizable window
Device Type	Runs on PC only	Multiple Windows 10 device types
Number of Instances	1	1 (default) or Multiple
Console App Supported	No	Yes
File System Access	Sandboxed - local storage only	Sandboxed by default App can request additional access to user folders and removable devices

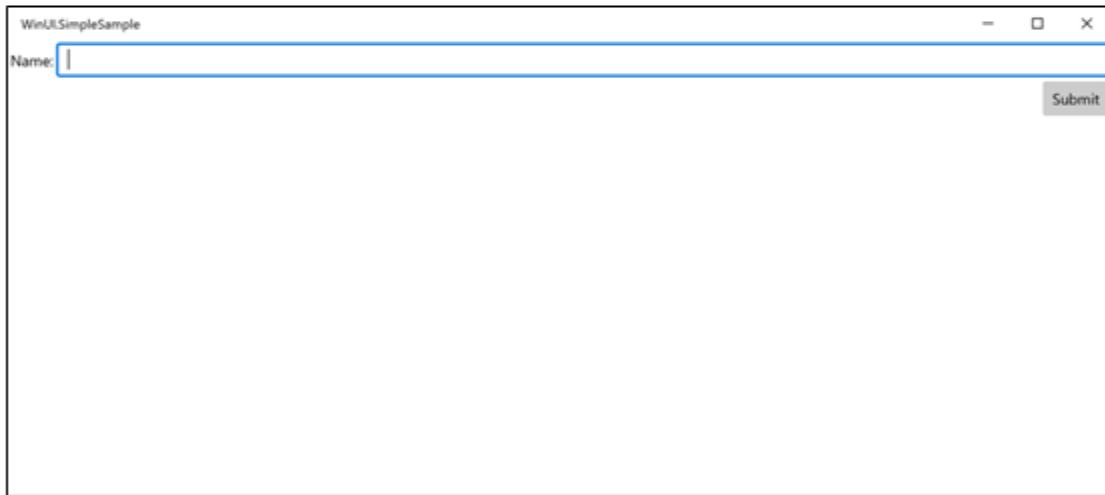
WinUI.SimpleSample

Name:

Submit



A narrower window



A wider window

WinUI.SimpleSample

Name: Bob Jones

Submit

WinUI.SimpleSample2

Name: Bob Jones

Actual Width: 897

Submit

WinUI.SimpleSample

Name: 500

Submit Cancel

WinUI.SimpleSample2

Name: Bob Jones

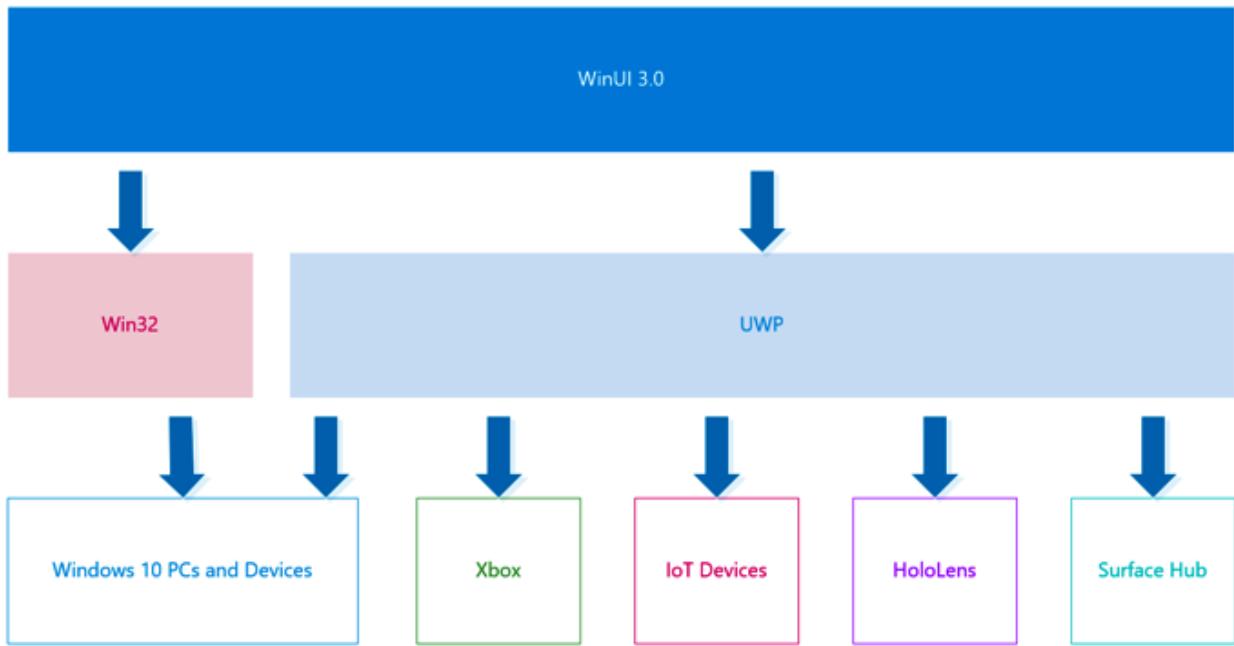
Actual Width: 927

MS

Submit ▾ Cancel

Submit + Print

Submit + Email



Chapter 2: Configuring the Development Environment and Creating the Project

The screenshot shows the 'Workloads' tab selected in the Visual Studio configuration interface. Under the 'Desktop & Mobile' section, four workloads are listed:

- .NET desktop development**: Build WPF, Windows Forms, and console applications using C#, Visual Basic, and F# with .NET Core and .NET... (checkbox checked)
- Universal Windows Platform development**: Create applications for the Universal Windows Platform with C#, VB, or optionally C++. (checkbox checked)
- Mobile development with C++**: Build cross-platform applications for iOS, Android or Windows using C++. (checkbox unchecked)
- Desktop development with C++**: Build modern C++ apps for Windows using tools of your choice, including MSVC, Clang, CMake, or MSBuild. (checkbox unchecked)
- Mobile development with .NET**: Build cross-platform applications for iOS, Android or Windows using Xamarin. (checkbox unchecked)

The screenshot shows the 'Manage Extensions' window in Visual Studio. The search bar is set to 'WinUI'. The results list includes:

- WinUI Essentials**: The easiest way to set up Visual Studio for the ultimate WinUI development experience.
- WinUI 3 Project Templates [Preview]**: The Microsoft Windows UI Library (WinUI) Visual Studio extension adds project and item templates to support building WinUI 3 applications.
- WinUI 2 Template**: A UWP project template that allows developers to get started with WinUI 2 quickly.
- WinUI Controls - Syncfusion [Preview]**: WinUI UI Controls for building high performance feature rich Windows Applications faster.
- Uno Platform Solution Templates**: Solution templates for Uno Platform enabled projects.
- Rapid XAML Editor Extras**: Tools to accelerate XAML app development by providing additional features to the Visual Studio editor.
- ModernWpf**

On the right side, there is a detailed view for the first result, 'WinUI Essentials':

- Created By:** Matt Lacey
- Version:** 1.0
- Downloads:** 892
- Pricing Category:** Free
- Rating:** 0 (0 Votes)
- Release Notes**
- More Information**
- Report Extension to Microsoft**
- Included Extensions:**
 - WinUI 3 Project Templates
 - XAML Styler
 - Rapid XAML Toolkit
- Scheduled For Install:** None
- Scheduled For Update:** None
- Scheduled For Uninstall:** None

At the bottom, a message states: 'Some extensions were automatically updated. Updates will be applied the next time you start Visual Studio.' with a 'Close' button.

Visual Studio 2019

Open recent

As you use Visual Studio, any projects, folders, or files that you open will show up here for quick access.

You can pin anything that you open frequently so that it's always at the top of the list.

Get started

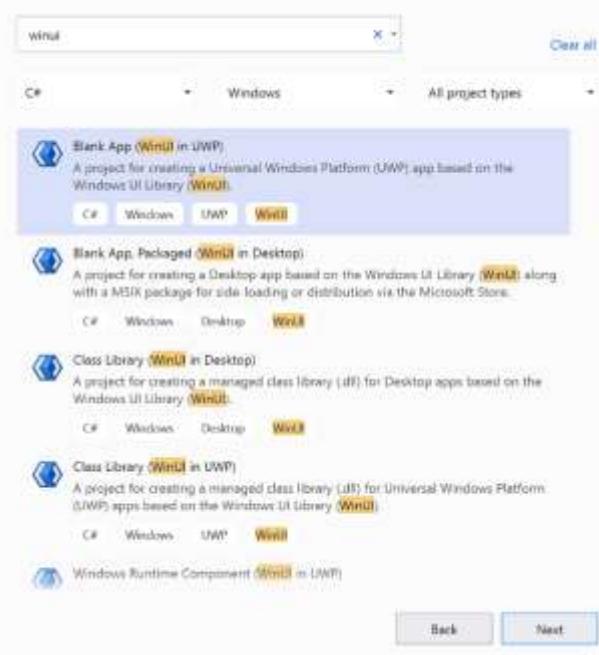
-  **Clone or check out code**
Get code from an online repository like GitHub or Azure DevOps
-  **Open a project or solution**
Open a local Visual Studio project or .sln file
-  **Open a local folder**
Navigate and edit code within any folder
-  **Create a new project**
Choose a project template with code scaffolding to get started

[Continue without code →](#)

Create a new project

Recent project templates

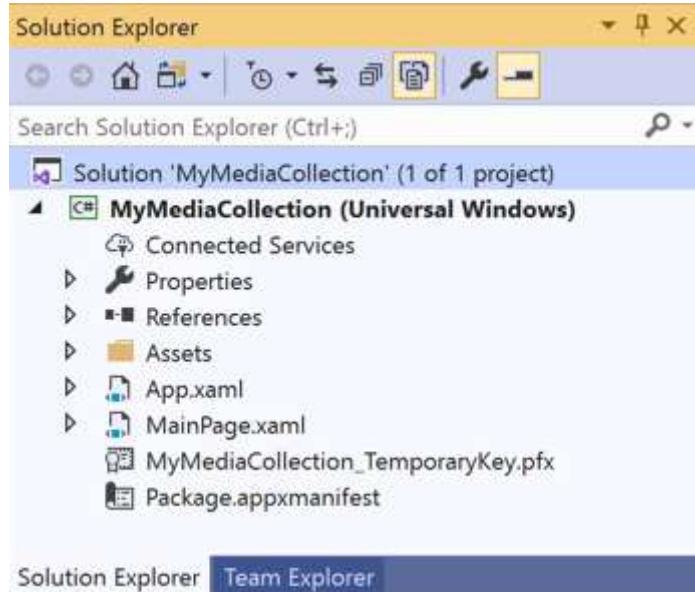
-  Blank App (Universal Windows)
-  Class Library (WinUI in UWP)
-  Blank App (WinUI in UWP)
-  Blank App, Packaged (WinUI in Desktop)
-  Windows Forms App (.NET Framework)
-  WPF App (.NET Framework)
-  Class Library (Universal Windows)
-  Class Library (WinUI in Desktop)
-  Blank App, Packaged (WinUI in Desktop)
-  Unit Test App (Universal Windows)



The screenshot shows the 'Create a new project' dialog. At the top, there is a search bar containing the text 'winui'. Below the search bar are three dropdown menus: 'C#' (selected), 'Windows' (selected), and 'All project types' (selected). A list of project templates is displayed, each with a small icon, the template name, and a brief description. The first template, 'Blank App (WinUI in UWP)', is highlighted with a blue background and has its details expanded:

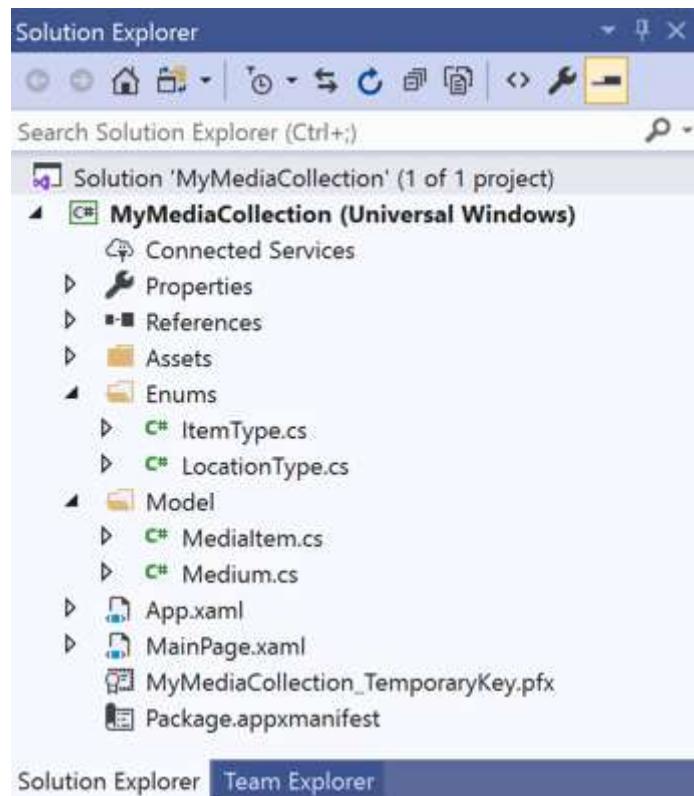
- Blank App (WinUI in UWP)**
A project for creating a Universal Windows Platform (UWP) app based on the Windows UI Library (WinUI).
- Blank App, Packaged (WinUI in Desktop)**
A project for creating a Desktop app based on the Windows UI Library (WinUI) along with a MSIX package for side loading or distribution via the Microsoft Store.
- Class Library (WinUI in Desktop)**
A project for creating a managed class library (.dll) for Desktop apps based on the Windows UI Library (WinUI).
- Class Library (WinUI in UWP)**
A project for creating a managed class library (.dll) for Universal Windows Platform (UWP) apps based on the Windows UI Library (WinUI).
- Windows Runtime Component (WinUI in UWP)**

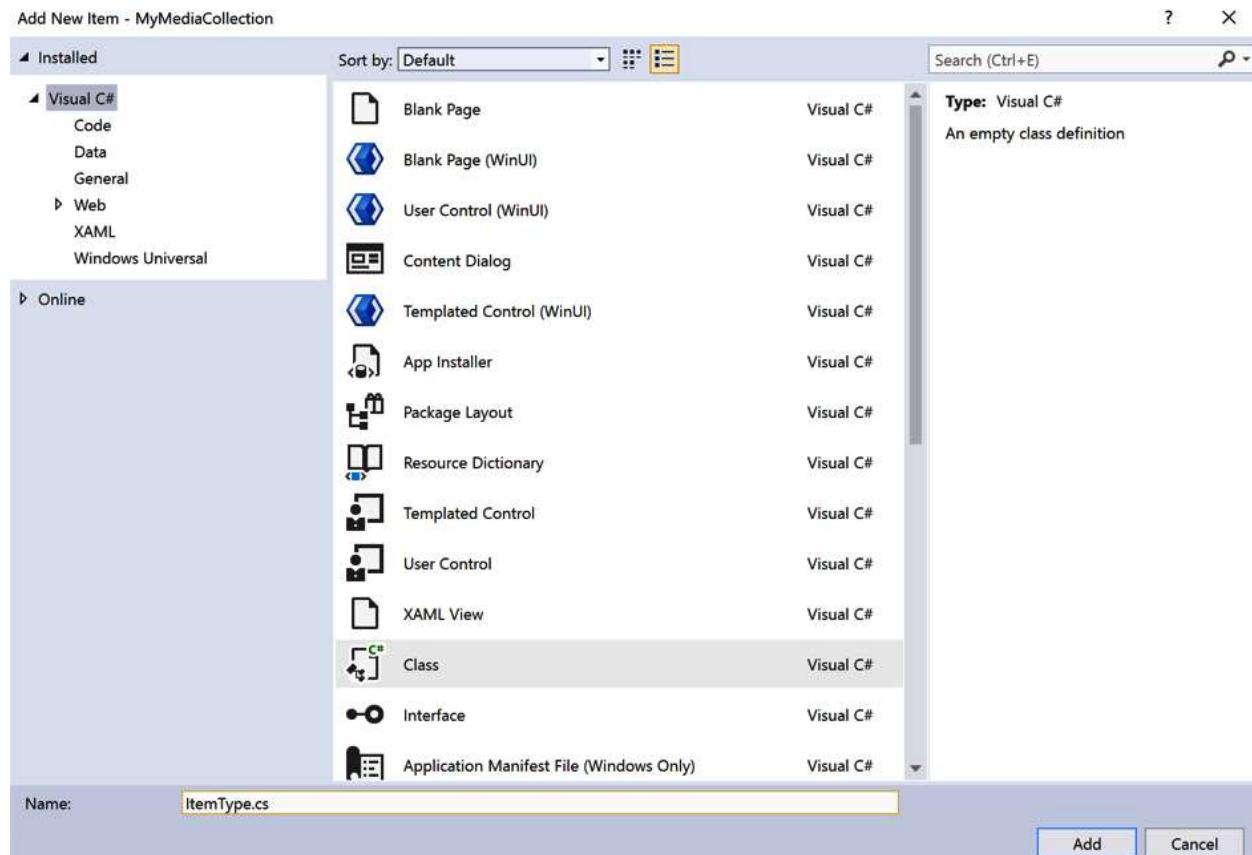
At the bottom right of the dialog are two buttons: 'Back' and 'Next'.



Solution Explorer | Team Explorer







```
0 references
public MainPage()
{
    this.InitializeComponent();

    ItemList.Loaded +=
        PopulateData();
}

ItemList_Loaded; (Press TAB to insert)
```

Media

MyMediaCollection.Model.MediaItem

MyMediaCollection.Model.MediaItem

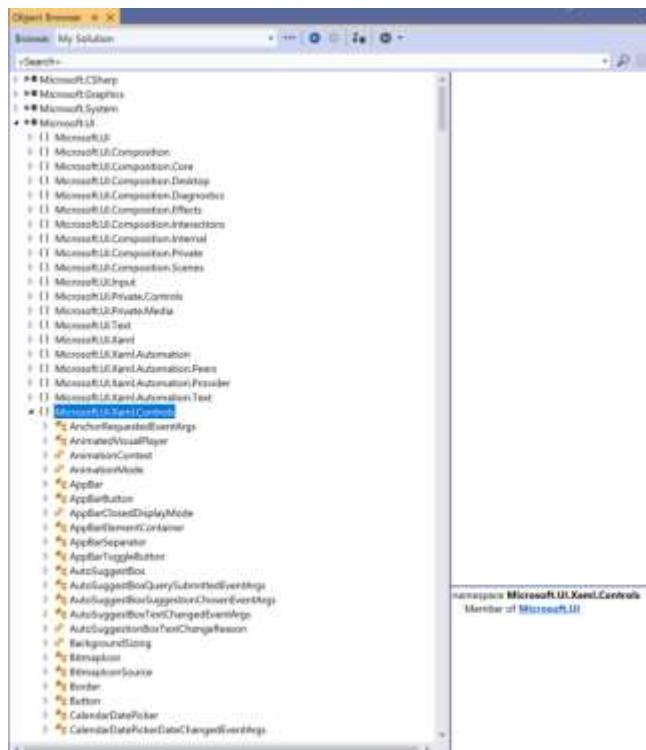
MyMediaCollection.Model.MediaItem

Media

CD Classical Favorites

Book Classic Fairy Tales

Blu Ray The Mummy



```
public string Text { get; set; }
    Member of Microsoft.UI.Xaml.Controls.TextBlock
```

Summary:

Gets or sets the text contents of a TextBlock.

Returns:

A string that specifies the text contents of this TextBlock. The default is an empty string.

Medium	Title
CD	Classical Favorites
Book	Classic Fairy Tales
Blu Ray	The Mummy

Media Collection**Media Type:** All**Medium** **Title**

CD	Classical Favorites
Book	Classic Fairy Tales
Blu Ray	The Mummy

— □ ×

Media Type:

All

- Book
- Music
- Video

Media Collection**Media Type:**

Book

▼

Medium **Title**

Book	Classic Fairy Tales
------	---------------------

Media Collection**Media Type:**

All

**Medium****Title**

CD Classical Favorites

Book Classic Fairy Tales

Blu Ray The Mummy

Add Item**Media Collection****Media Type:**

All

**Medium****Title**

CD Classical Favorites

Book Classic Fairy Tales

Blu Ray The Mummy

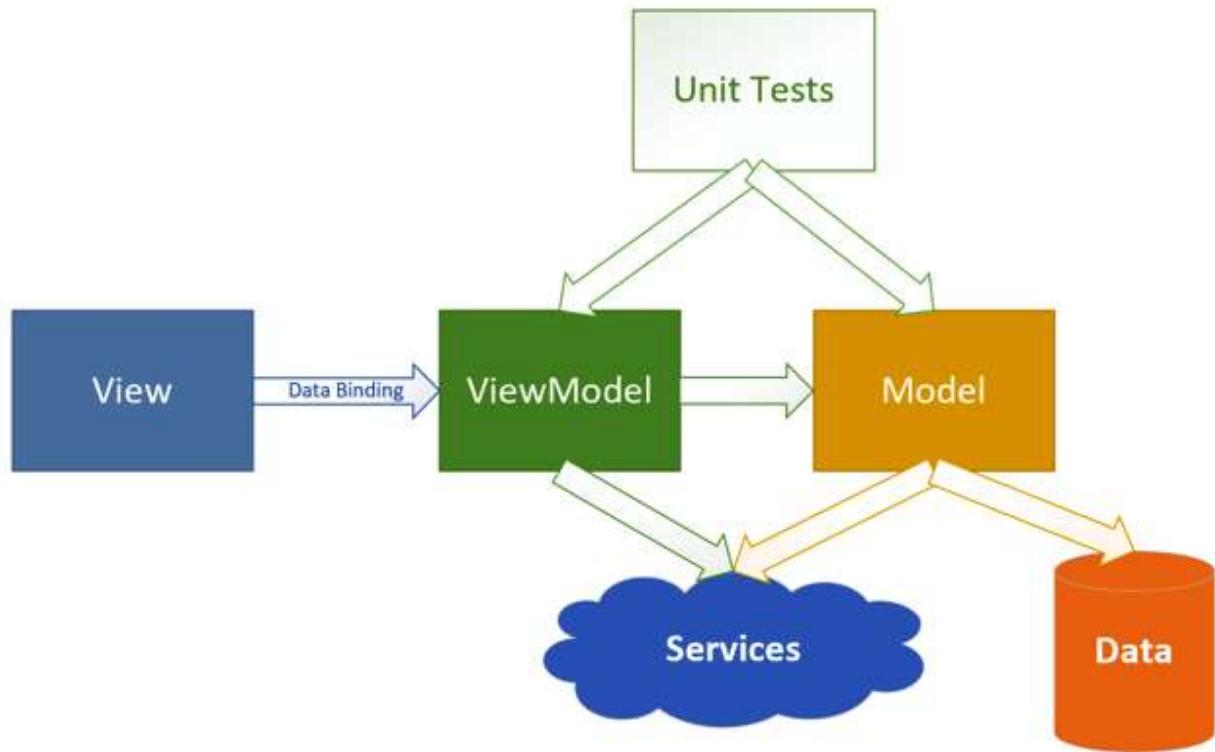
My Media Collection

My Media Collection

Adding items to the collection is not yet available.

Close**Add Item**

Chapter 3: MVVM for Maintainability and Testability



Media Collection**Media Type:** All**Medium** **Title**

CD Classical Favorites

Blu Ray The Mummy

CD CD 1

CD CD 2

CD CD 3

CD CD 4

[Add Item](#)[Delete Item](#)

Chapter 4: Advanced MVVM Concepts

The screenshot shows the NuGet Package Manager interface. On the left, a search results page for "microsoft.extensions.dependencyinjection" is displayed, listing several packages related to dependency injection. On the right, the detailed view for the package "Microsoft.Extensions.DependencyInjection" is shown.

Search Results (Left):

Package	Downloads	Version
Microsoft.Extensions.DependencyInjection	185M	v3.1.3
Microsoft.Extensions.DependencyInjection.Abstractions	311M	v3.1.3
Autofac.Extensions.DependencyInjection	14.1M	v6.0.0
AutoMapper.Extensions.Microsoft.DependencyInjection	18.5M	v7.0.0
MediatR.Extensions.Microsoft.DependencyInjection	6.33M	v6.0.0
App.Metrics.Extensions.DependencyInjection	2.55M	v3.2.0
MassTransit.Extensions.DependencyInjection	1.87M	v6.2.5
App.Metrics.Health.Extensions.DependencyInjection	1.27M	v3.2.0
Microsoft.Extensions.Primitives	308M	v3.1.3

Details Page (Right):

Microsoft.Extensions.DependencyInjection

Version: Latest stable 3.1.3 | Install

Description: Default implementation of dependency injection for Microsoft.Extensions.DependencyInjection.

Author(s): Microsoft

License: Apache-2.0

Date published: Tuesday, March 24, 2020 (3/24/2020)

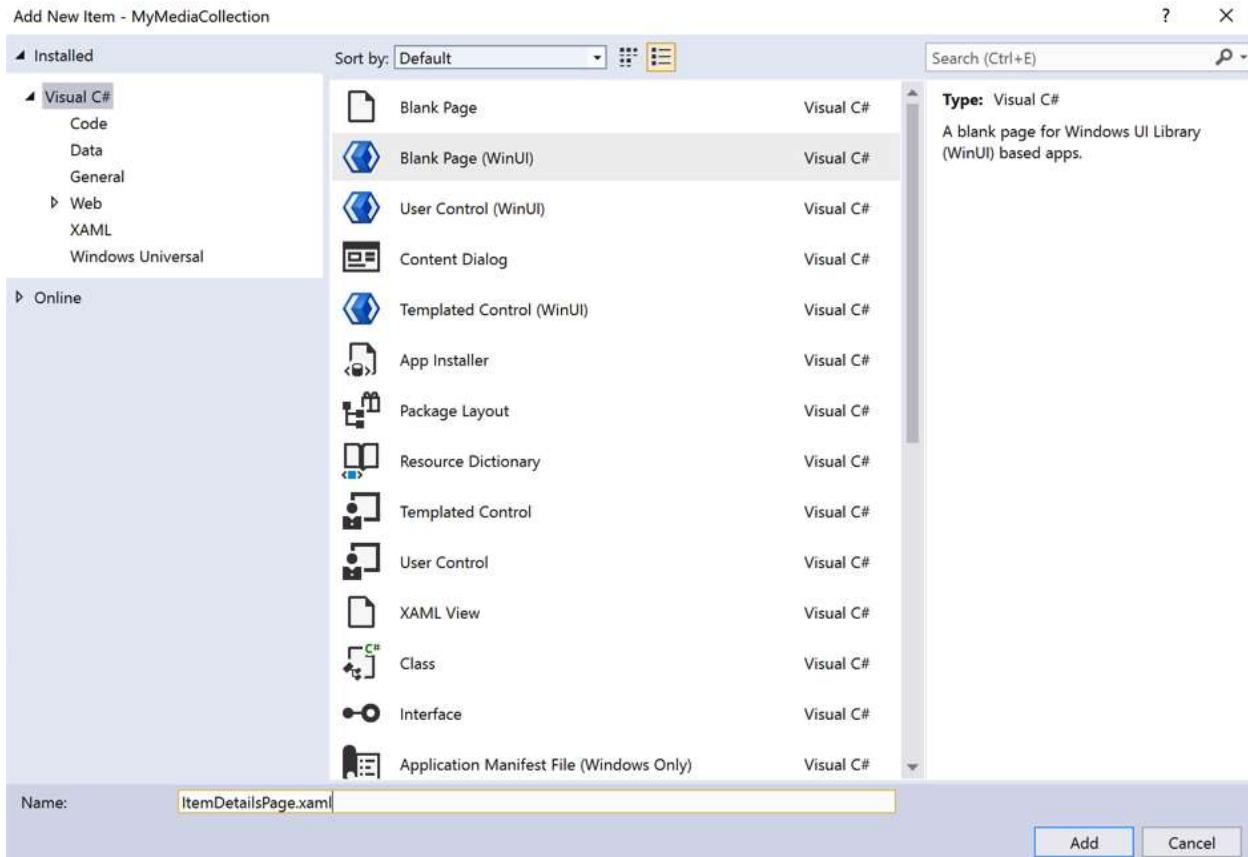
Project URL: <https://wpf.net/>

Report Abuse: <https://www.nuget.org/packages/Microsoft.Extensions.DependencyInjection/3.1.3/ReportAbuse>

Tags: dependencyinjection, di

Dependencies:

- .NETFramework Version=v4.6.1
Microsoft.Extensions.DependencyInjection.Abstractions (>= 3.1.3)
Microsoft.Bcl.AsyncInterfaces (>= 1.1.0)
- .NETCoreApp Version=v3.1
Microsoft.Extensions.DependencyInjection.Abstractions (>= 3.1.3)
- .NETStandard Version=v2.0
Microsoft.Extensions.DependencyInjection.Abstractions (>= 3.1.3)
Microsoft.Bcl.AsyncInterfaces (>= 1.1.0)
- .NETStandard Version=v2.1
Microsoft.Extensions.DependencyInjection.Abstractions (>= 3.1.3)



MyMediaCollection

Item Details

Name:

Media Type:

Medium:

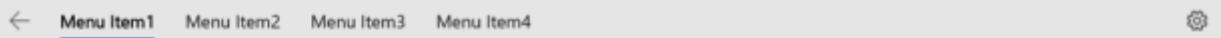
Location:

Save Cancel

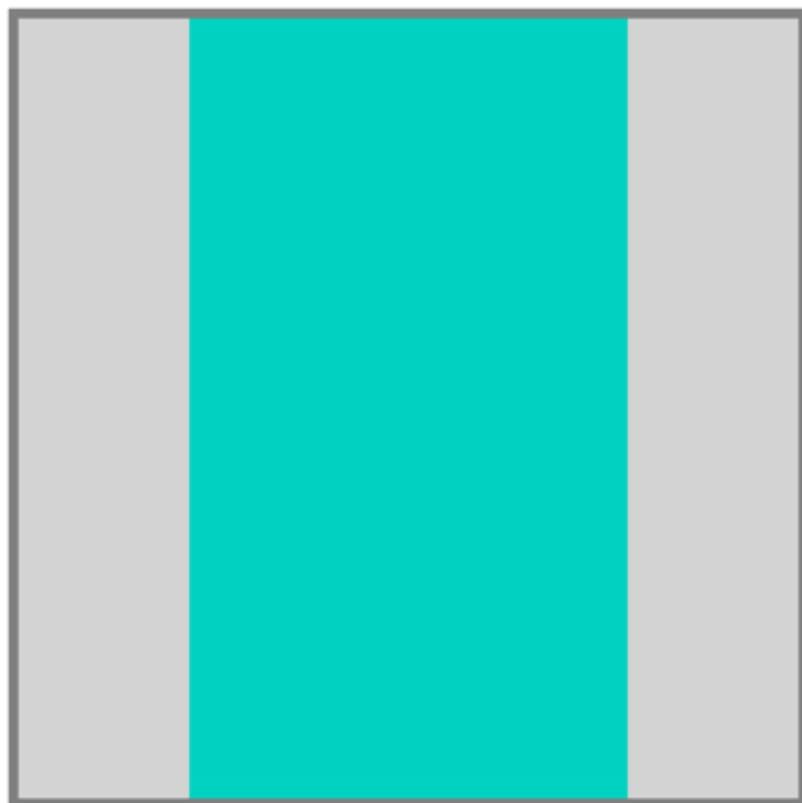
The screenshot shows the 'Item Details' dialog. It contains four input fields: 'Name' (value: 'The Mummy'), 'Media Type' (value: 'Video'), 'Medium' (value: 'Blu Ray'), and 'Location' (value: 'InCollection'). Buttons for 'Save' and 'Cancel' are at the bottom.

Chapter 5: Exploring WinUI Controls

Animated visual player (Lottie) (WinUI)	Parallax view (WinUI)
Auto-suggest box	Password box
Button	Person picture (WinUI)
Calendar date picker	Pivot
Calendar view	Progress bar (WinUI)
Checkbox	Progress ring (WinUI)
Color picker (WinUI)	Radial gradient brush (WinUI)
Combo box	Radio button
Command bar	Rating control (WinUI)
Command bar flyout (WinUI)	Repeat button
Contact card	Rich edit box
Content dialog	Rich text block
Content link	Scroll viewer
Context menu	Search
Date picker	Semantic zoom
Dialogs and flyouts	Shapes
Drop down button (WinUI)	Slider
Flip view	Split button (WinUI)
Flyout	Split view
Forms	Swipe control (WinUI)
Grid view	Tab view (WinUI)
Hyperlink	Teaching tip (WinUI)
Hyperlink button	Text block
Images and image brushes	Text box
Inking controls	Time picker
List view	Toggle switch
Map control	Toggle button
Master/details	Toggle split button
Media playback	Tooltips
Menu bar (WinUI)	Tree view (WinUI)
Menu flyout	Two-pane view (WinUI)
Navigation view (WinUI)	Web view
Number box (WinUI)	Web view (Chromium-based MS Edge) (WinUI)



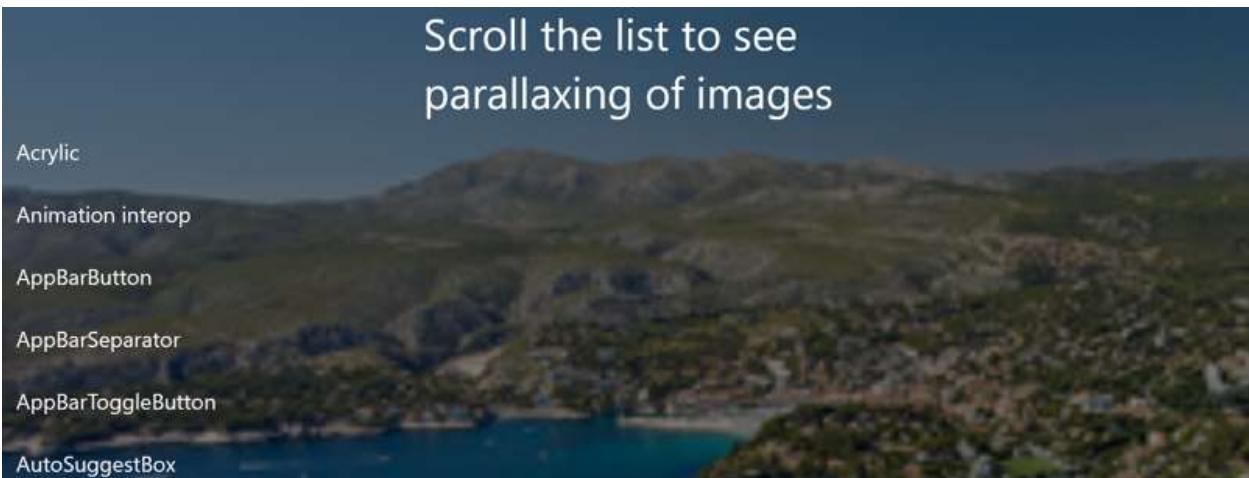
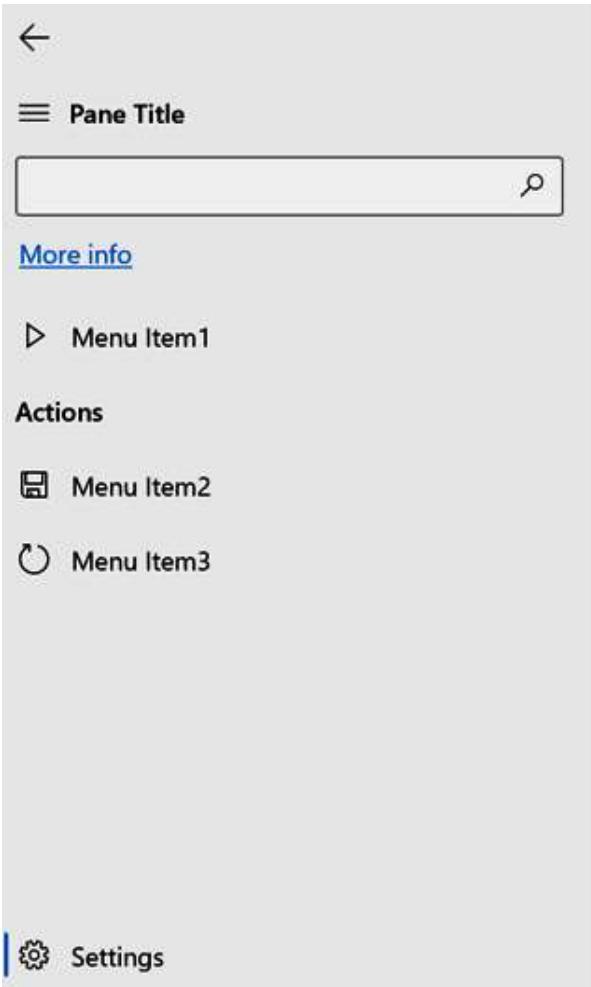
This is Header Text



Sample Page 1



 Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.



PullToRefresh

RadialGradientBrush

RadioButton

RatingControl

RelativePanel

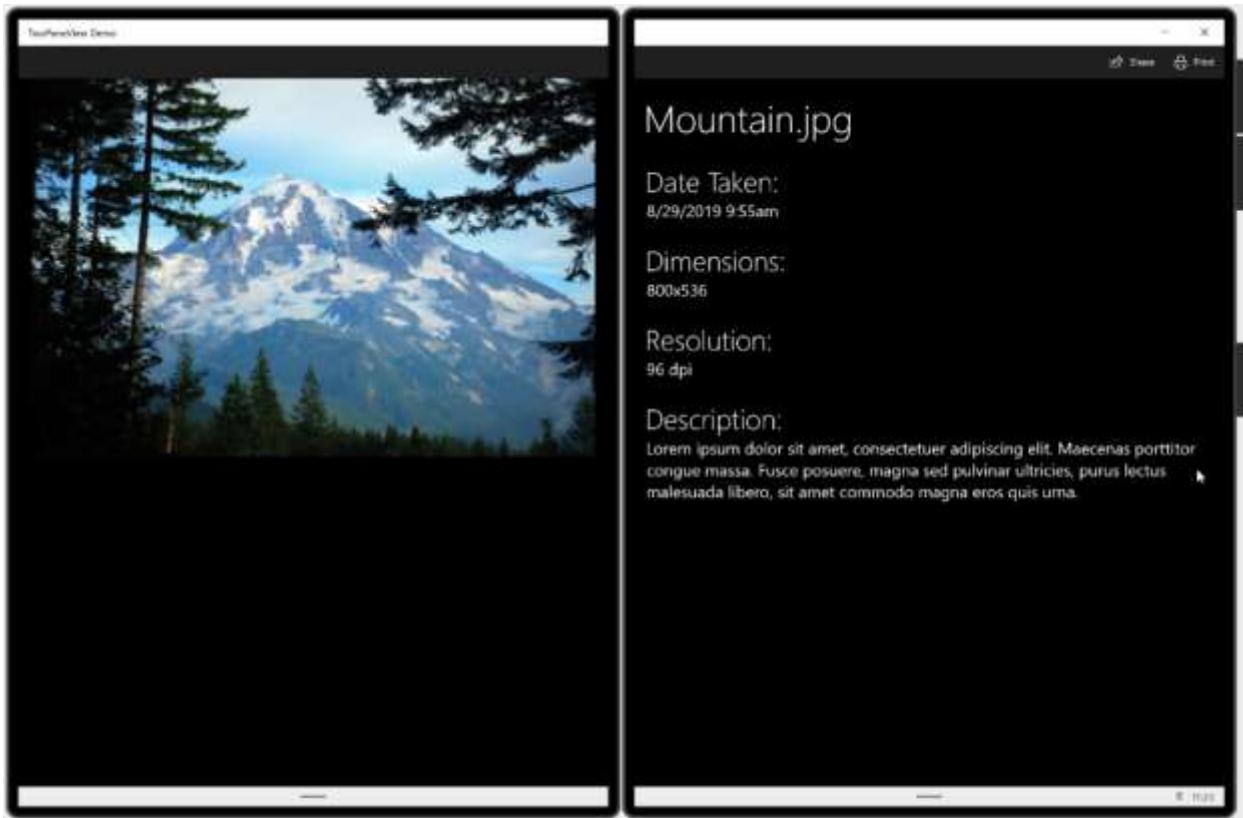
RepeatButton

Reveal

Reveal Focus

RichEditBox





A screenshot of the WinUI 3 Samples application. On the left is a sidebar with a search bar at the top and a tree view of sample categories: "What's New", "All controls", "Basic Input", "Collections", "Date and Time", "Dialogs and Relyents", "Layout", "Media", "Menus and Toolbars", "Motion", "Navigation", "Scrolling", "Status and Info", "Styles", "Text", and "Settings". The main area has a dark blue background with a large white hexagonal logo on the left. To its right, the text "WinUI 3 α" is displayed. Below the logo, the heading "What's New" is shown above a list of recently added samples. The first item is "WebView2" with a "New" badge. Below that is a section for "Recently Updated Samples" featuring six items: "AppBarButton" (updated), "ComboBox" (updated), "ListView" (updated), "MenuBar" (updated), "NavigationView" (updated), and "RichEditBox" (updated). Each sample item includes a small icon, the control name, and a brief description.

Search

What's New

All controls

- Basic Input
- Collections
- Date and Time
- Dialogs and Flyouts
- Layout
- Media
- Menus and Toolbars
- Motion
- Navigation
- Scrolling
- Status and Info
- Styles
- Text
- Settings

ScrollView

A container control that lets the user pan and zoom its content.

Content inside of a ScrollViewer:



ZoomMode: Enabled

Zoom:

Horizontal ScrollMode: Enabled

Vertical ScrollMode: Enabled

Horizontal ScrollBarVisibility: Disabled

Vertical ScrollBarVisibility: Visible

```
<ScrollView Height="210" ZoomMode="Enabled">
    <VerticalScrollBarEnabled>True</VerticalScrollBarEnabled>
    <ManipulationCompleted>Control1_ManipulationCompleted</ManipulationCompleted>
    <HorizontalScrollMode>Enabled</HorizontalScrollMode>
    <VerticalScrollMode>Enabled</VerticalScrollMode>
    <Image Source="ms-appx:///Assets/SampleMedia/ciff.jpg" AutomationProperties.Name="ciff" Stretch="None" HorizontalAlignment="Left" VerticalAlignment="Top"/>
</ScrollView>
```

Documentation

ScrollView - API

Guidance

Related controls

- Viewbox
- Canvas
- Grid
- StackPanel
- RelativePanel
- PanelView

Feedback

Send feedback about this page

ScrollView

 [Toggle Theme](#)

A container control that lets the user pan and zoom its content.

Content inside of a ScrollViewer.



ZoomMode

Zoom



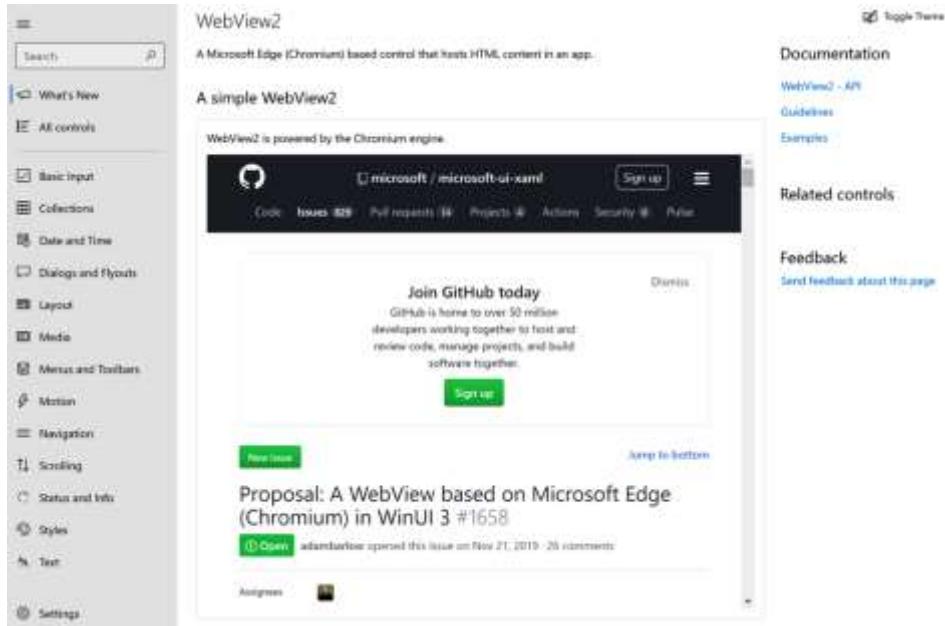
ScrollMode

Horizontal

Vertical

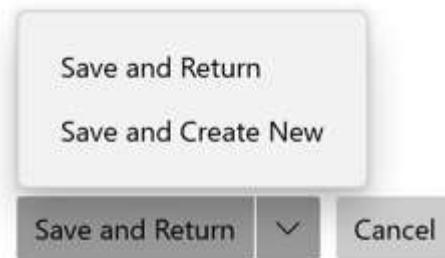
ScrollbarVisibility

Horizontal



Item Details

Name:	The Mummy Returns
Media Type:	Video
Medium:	Blu Ray
Location:	InCollection



Item Details

Name:

Media Type:

Medium:

Location:

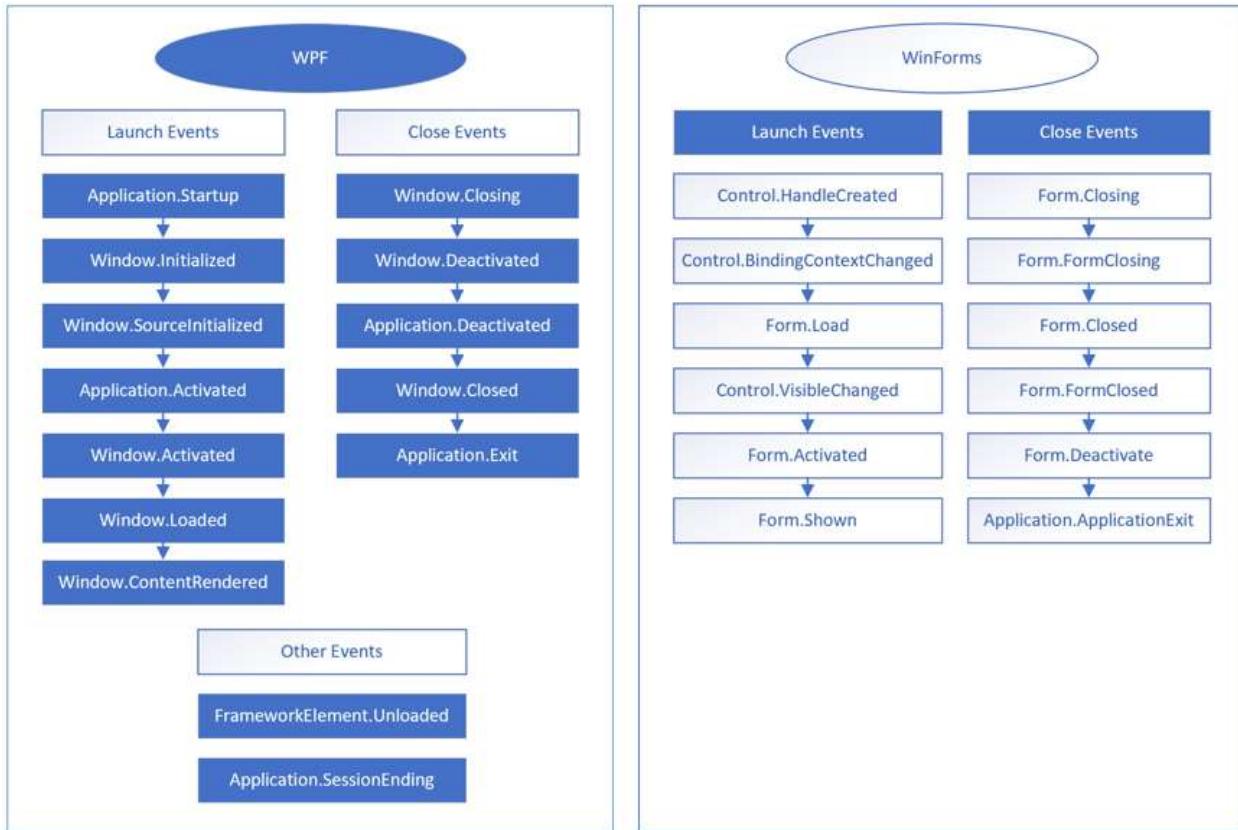
Save and create new

X

Use the dropdown button option to save
your item and create another.

Save and Return**Cancel**

Chapter 6: Leveraging Data and Services



Media Collection		Media Type:
Medium	Title	<input type="button" value="All"/>
		<input type="button" value="Add/Edit Item"/>
		<input type="button" value="Delete Item"/>

Media Collection		Media Type:	All	
Medium	Title			
Hardcover	War and Peace			
DVD	The Mummy			
CD	Classical Favorites			
Vinyl	Smooth Jazz			

Add/Edit Item Delete Item

Item Details

Name:	<input type="text" value="F"/> Item name must be at least 2 characters. 	
Media Type:		
Medium:		
Location:		
Save and Return  Cancel		

Chapter 7: Fluent Design System for Windows Applications

Light theme

Buttons

Enabled button

Disabled button

Toggle button

Toggled button

Enabled accent button

Disabled accent button

Checkbox

Unchecked

Checked

Third state

Disabled

Radio button

Unchecked

Checked

Disabled

Combo box

Item 1 ▾

Dark theme

Buttons

Enabled button

Disabled button

Toggle button

Toggled button

Enabled accent button

Disabled accent button

Checkbox

Unchecked

Checked

Third state

Disabled

Radio button

Unchecked

Checked

Disabled

Combo box

Item 1 ▾

Application Visual Assets Capabilities Declarations Content URIs Packaging

Use this page to set the properties that identify and describe your app.

Display name:	<input type="text" value="My Media Collection"/>
Entry point:	<input type="text" value="MyMediaCollection.App"/>
Default language:	<input type="text" value="en-US"/> More information
Description:	<input type="text" value="My Media Collection"/>

Supported rotations: An optional setting that indicates the app's orientation preferences.



Landscape Portrait Landscape-flipped Portrait-flipped

Lock screen notifications:

Resource group:

Tile Update:

Updates the app tile by periodically polling a URI. The URI template can contain "{language}" and "{region}" tokens that will be replaced at runtime to generate the URI to poll.

[More information](#)

Recurrence:

URI Template:

MyMediaCollection

- □ ×

Media Collection

Media Type:

Medium Title

Hardcover War and Peace

DVD The Mummy

CD Classical Favorites

Add/Edit Item

Delete Item

HomeAs Home

Media Type:

Medium Title

Hardcover War and Peace

DVD The Mummy

CD Classical Favorites

Vinyl Smooth Jazz

Home

Media Type: All

Medium Title

Hardcover	War and Peace
DVD	The Mummy
CD	Classical Favorites
Vinyl	Smooth Jazz

Item Details

Name:

Media Type:

Medium:

Location:

 This product is installed.

[Launch](#) ...

Fluent XAML Theme Editor

Microsoft Corporation • Developer tools > Design tools

★★★★★ 6  Share

A design development tool you can use to create custom themes for the Windows Universal Platform. This tool also helps with the development flow by generating and exporting your chosen theme to a XAML markup

More

 **E** EVERYONE

[Overview](#) System Requirements Reviews Related

Available on

 PC  Hub

Light theme

Buttons

Enabled button

Disabled button

Toggle button

Toggled button

Enabled accent button

Disabled accent button

Checkbox

Unchecked

Checked

Third state

Disabled

Radio button

Unchecked

Checked

Disabled

Dark theme

Buttons

Enabled button

Disabled button

Toggle button

Toggled button

Enabled accent button

Disabled accent button

Checkbox

Unchecked

Checked

Third state

Disabled

Radio button

Unchecked

Checked

Disabled



Color Presets

Default

Load

Save

Region

Light theme

Dark theme

#FFFFFF

#000000

Base

Light theme

Dark theme

#CCCCCC

#333333

Primary

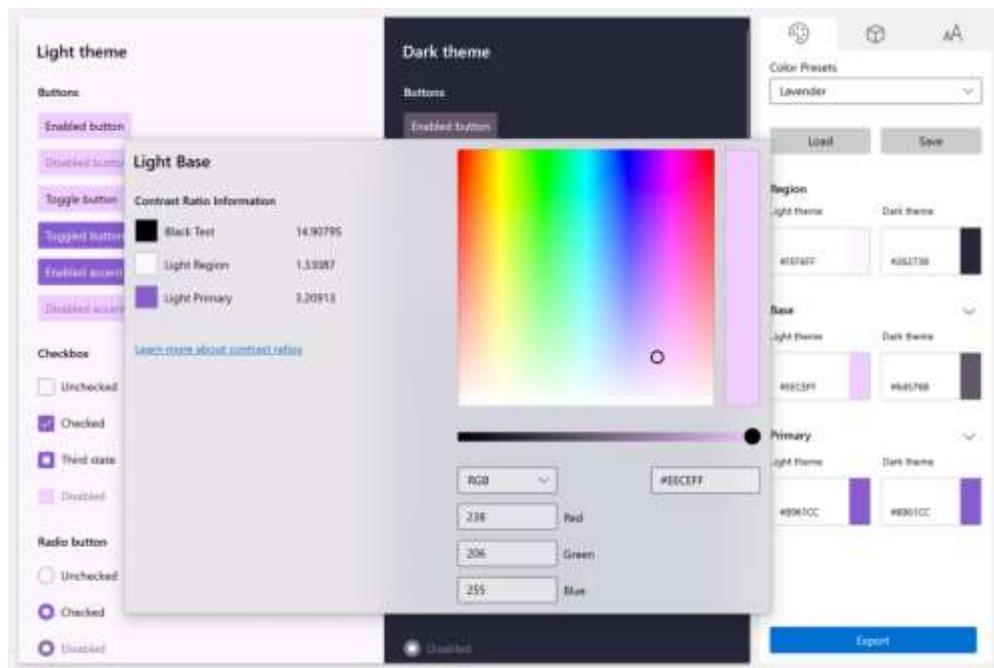
Light theme

Dark theme

#0073CF

#0073CF

Export



Light theme

Dark theme

Buttons

- Enabled button
- Disabled button
- Toggle button
- Toggled button
- Enabled accent button
- Disabled accent button

Checkbox

- Unchecked
- Checked
- Third state
- Disabled

Radio button

- Unchecked
- Checked
- Disabled

Combo box

Dark theme

Buttons

- Enabled button
- Disabled button
- Toggle button
- Toggled button
- Enabled accent button
- Disabled accent button

Checkbox

- Unchecked
- Checked
- Third state
- Disabled

Radio button

- Unchecked
- Checked
- Disabled

Combo box

Shape Presets
No Rounding, Thicker Borders

Corner Radius

Controls: 0 0
Overlay: 0 0

Border Thickness
Border Preview: 2 2 2

OK Cancel

Apply Export

```
<!-- Free Public License 1.0.0 Permission to use, copy, modify, and/or distribute this code for any purpose with or without fee is hereby granted.
<ResourceDictionary xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
    xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
    xmlns:Windows10Version1809="http://schemas.microsoft.com/winfx/2006/xaml/presentation?IsApiContractPresent(Windows.Foundation,
    xmlns:BelowWindows10Version1809="http://schemas.microsoft.com/winfx/2006/xaml/presentation?IsApiContractNotPresent(Windows.

<ResourceDictionary.ThemeDictionaries>
    <ResourceDictionary x:Key="Default">
        <ResourceDictionary.MergedDictionaries>
            <Windows10Version1809:ColorPaletteResources Accent="#FFCC4D11" AltHigh="#FF000000" AltLow="#FF000000" AltMedium="#FF000000" Alt
            <ResourceDictionary>
                <BelowWindows10Version1809:Color x:Key="SystemAccentColor">#FFCC4D11</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemAltHighColor">#FF000000</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemAltLowColor">#FF000000</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemAltMediumColor">#FF000000</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemAltMediumHighColor">#FF000000</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemAltMediumLowColor">#FF000000</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemBaseHighColor">#FFFFFFFF</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemBaseLowColor">#FF2F7BAD</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemBaseMediumColor">#FF80BFD</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemBaseMediumHighColor">#FFA5D8EC</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemBaseMediumLowColor">#FF5E9DC6</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeAltLowColor">#FFA5D8EC</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeBlackHighColor">#FF000000</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeBlackLowColor">#FFA5D8EC</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeBlackMediumColor">#FF000000</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeDisabledHighColor">#FF2F7BAD</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeDisabledLowColor">#FFBDBDF</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeGrayColor">#FF76AE03</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeHighColor">#FF134B82</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeLowColor">#FF893B73</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeMediumColor">#FF266B9F</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeMediumLowColor">#FF266B9F</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemChromeWhiteColor">#FFFFFFFF</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemListLowColor">#FF134B82</BelowWindows10Version1809:Color>
                <BelowWindows10Version1809:Color x:Key="SystemListMediumColor">#FF2F7BAD</BelowWindows10Version1809:Color>
                <Color x:Key="SystemChromeAltMediumHighColor">#CCBD2644</Color>
                <Color x:Key="SystemChromeAltHighColor">#FF2F7BAD</Color>
                <Color x:Key="SystemRevealListLowColor">#FF134B82</Color>
```

[Learn more about XAML ResourceDictionary](#)

[Copy to Clipboard](#)

← UWP Resources Gallery

≡

- Start
- Icons
- Systembrushes
- Systemcolors
- Universal API contracts

Settings

Info

Icon name	Settings	Copy
Unicode point	E713	Copy
Text glyph		Copy

Icon as control

FontIcon

```
<FontIcon Glyph="&#xE713;" />
```

```
FontIcon icon = new FontIcon();
icon.Glyph = "\uE713";
```

Button with FontIcon

```
<Button>
    <FontIcon Glyph="&#xE713;" />
</Button>
```

```
Button button = new Button();
button.Content = new FontIcon();
(button.Content as FontIcon).Glyph = "\uE713";
```

Custom FontIcon

⚙

Source code

```
<FontIcon Glyph="&#xE713;" 
Foreground="#FFFF0000" 
FontSize="20"/>
```

Chapter 8: Building WinUI Apps with .NET 5

Create a new project X Clear all

Recent project templates All languages All platforms All project types

 Blank App, Packaged (WinUI in Desktop)	C#	 Blank App, Packaged (WinUI in Desktop) A project for creating a Desktop app based on the Windows UI Library (WinUI) along with a MSIX package for side-loading or distribution via the Microsoft Store. C++ Windows Desktop WinUI
 Blank App, Packaged (WinUI in Desktop)	C++	 Blank App, Packaged (WinUI in Desktop) A project for creating a Desktop app based on the Windows UI Library (WinUI) along with a MSIX package for side-loading or distribution via the Microsoft Store. C# Windows Desktop WinUI
 Blank App (Universal Windows)	C#	 Blank App (WinUI in UWP) A project for creating a Universal Windows Platform (UWP) app based on the Windows UI Library (WinUI). C# Windows Desktop WinUI
 Unit Test App (Universal Windows)	C#	 Class Library (WinUI in Desktop) A project for creating a managed class library (.dll) for Desktop apps based on the Windows UI Library (WinUI). C# Windows Desktop WinUI
		 Blank App (WinUI in UWP) A project for creating a Universal Windows Platform (UWP) app based on the Windows UI Library (WinUI). C++ Windows UWP WinUI
		 Blank App (WinUI in UWP)

Back Next

Configure your new project

Blank App, Packaged (WinUI in Desktop)

C#

Windows

Desktop

WinUI

Project name

WebViewBrowser

Location

C:\Users\alvinashcraft\source\repos



Solution name i

WebViewBrowser

Place solution and project in the same directory

Back

Create

New Universal Windows Platform Project X

Select the target and minimum platform versions that your UWP application will support.

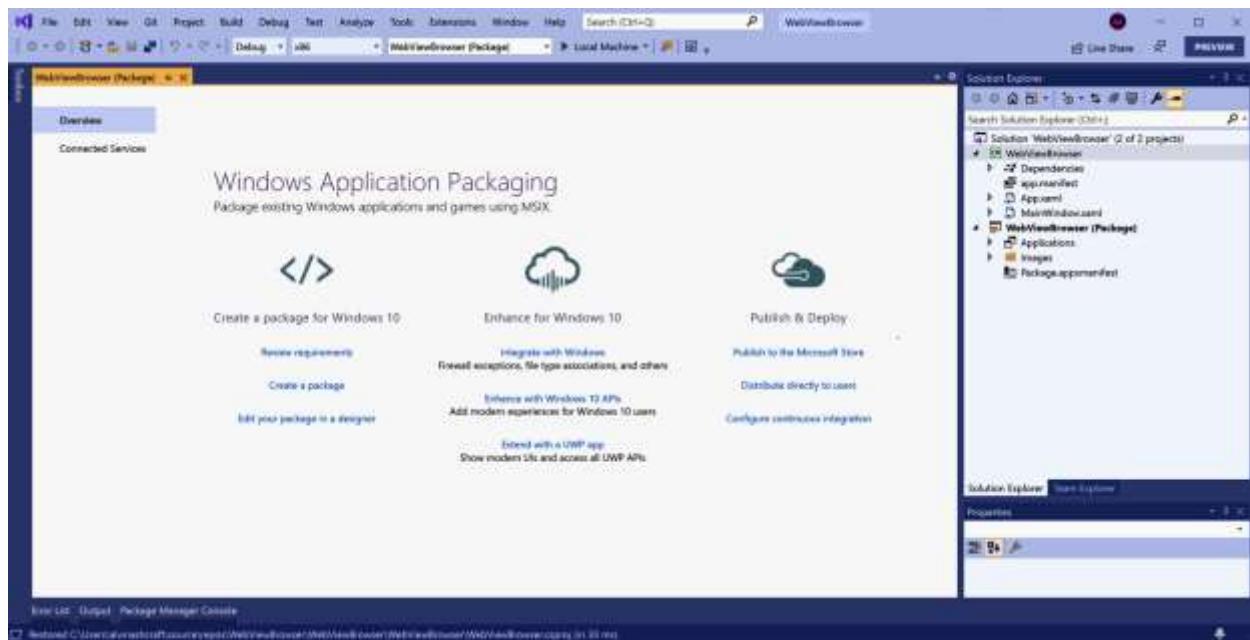
Target version: Windows 10; version 1903 (10.0; Build 18362)

Minimum version: Windows 10, version 1809 (10.0; Build 17763)

Which version should I choose?

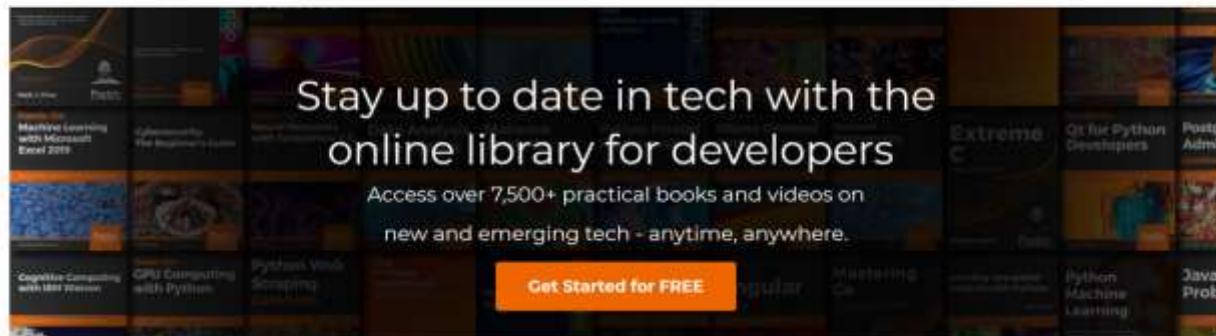
OK

Cancel



The screenshot shows the Microsoft Edge Insider Channels landing page. The top navigation bar includes "Microsoft", "Microsoft Edge Insider", "Download", "What's New", "What's Hot", "Issues", "Community", and "Report". The main heading is "Microsoft Edge Insider Channels" with the subtext "Learn more about our different channels, download, and get started." Below this, three cards represent the channels:

- Beta Channel** (Major update every 6 weeks): Describes the Beta channel as the most stable Microsoft Edge preview experience, with major updates every 6 weeks. It includes a "Download for Windows 10" button.
- Dev Channel** (Updated weekly): Describes Dev builds as the best representation of our improvements in the past week. They have been tested by the Microsoft Edge team and are generally more stable than Canary. It includes a "Download for Windows 10" button.
- Canary Channel** (Updated daily): Describes Canary as what we were working on yesterday. Canary will be released automatically almost every night to keep you up to date on our progress. It includes a "Download for Windows 10" button.



Package.appxmanifest > MainWindow.xaml

Application Visual Assets Capabilities Declarations Content URIs Packaging

All Visual Assets

Small Tile

Medium Tile

Wide Tile

Large Tile

App Icon

Splash Screen

Badge Logo

Package Logo

All Visual Assets

Microsoft Store apps should support displays of different resolutions. Windows provides a simple way to do this via resource loading. This section lists all the assets which are used in the manifest. [How do I create image scaling?](#)

Asset Generator

Source: \\Mac\Home\Downloads\logo.png

Destination: Images

Assets: Small Tile, Medium Tile, Wide Tile, Large Tile, App Icon, Splash Screen, Package Logo

Scales: All Scales

Scaling Mode: Bicubic (Sharper Edges)

Apply recommended padding

Apply color conversion for Windows Light Theme

Generate

Display Settings

Short name: []

Tile background: transparent

Show name: Medium Tile
 Wide Tile
 Large Tile

Splash screen background: []

Preview Images

Small Tile: []

Scaled Assets:

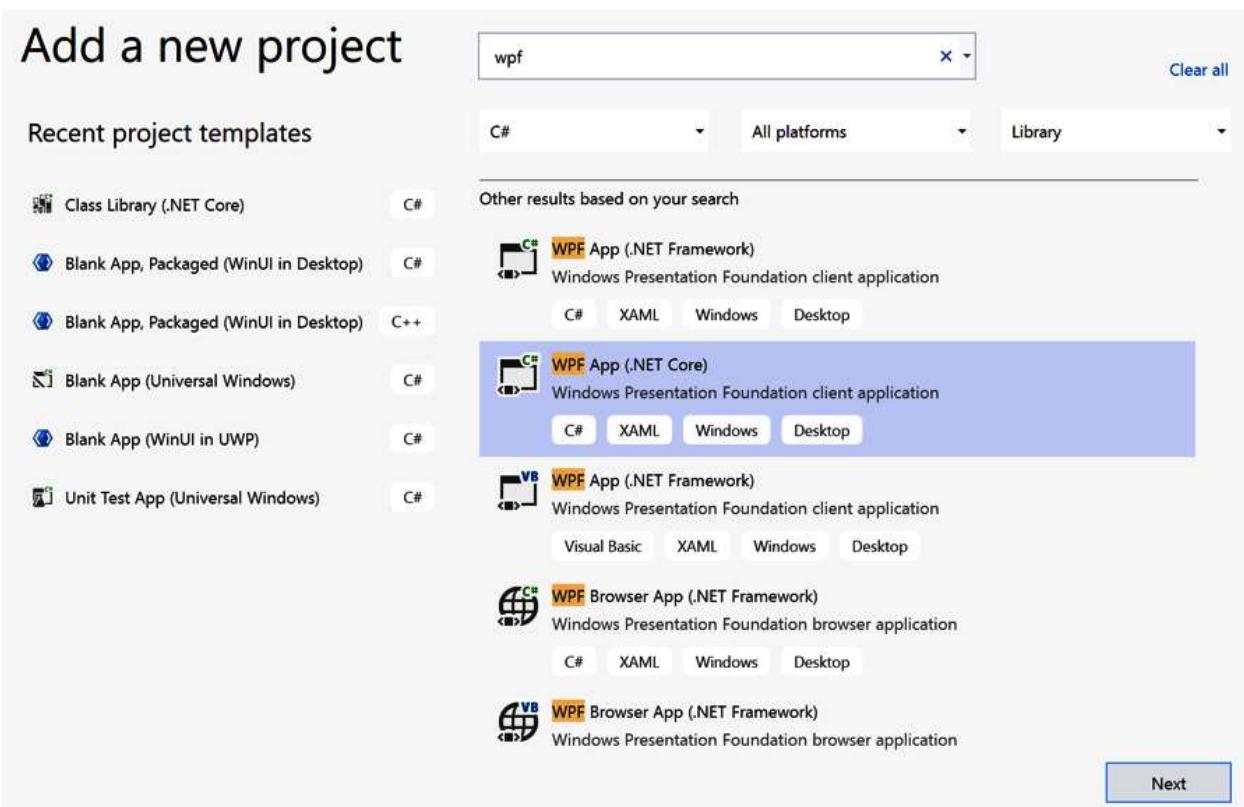
Scale 400

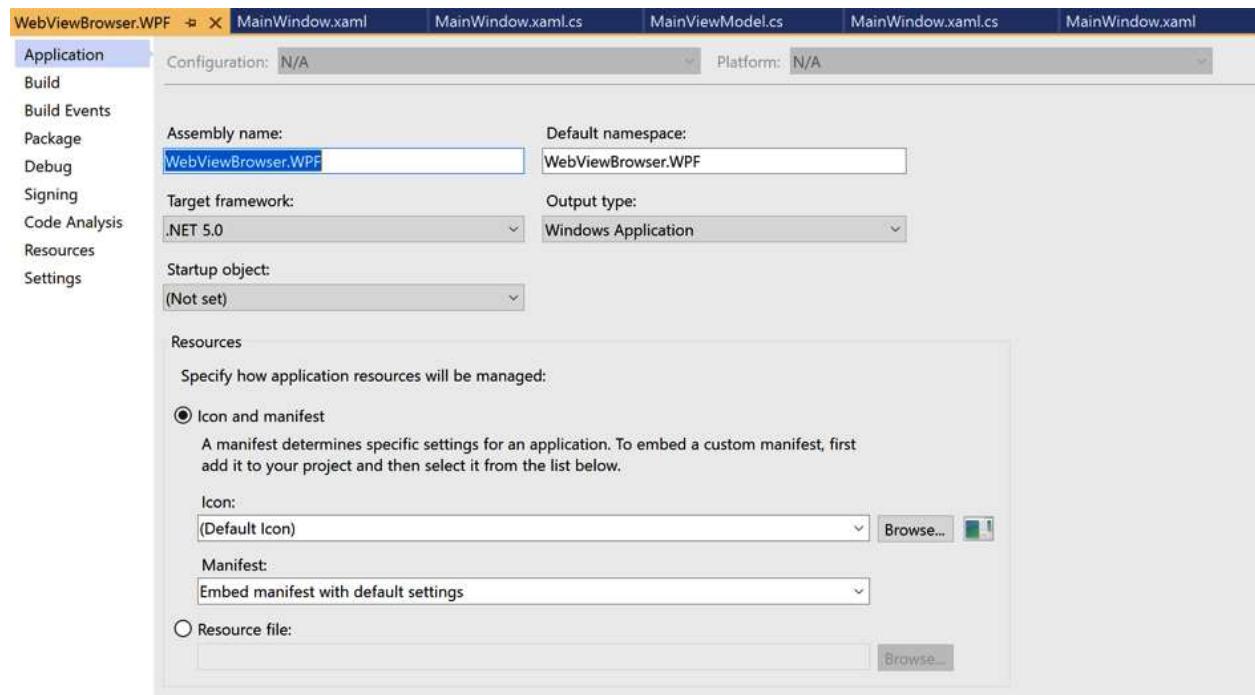
Scale 200

Scale 100

Scale 150

Scale 125





NuGet: WebViewBrowser.WPF < X MainWindow.xaml MainWindow.xaml.cs

Browse Installed Updates  Include prelease

microsoft.web.webview2  Include prelease

NuGet Package Manager: WebViewBrowser.WPF

Package source: nuget.org 

	Microsoft.Web.WebView2	Version	Description
 	Microsoft.Web.WebView2 by Microsoft, 42.4K downloads	v0.9.538-prerelease	The Microsoft Edge WebView2 control enables you to host web content in your Windows app.
 	Microsoft.AspNetCore.WebUtilities by Microsoft, 228M downloads	v2.2.0	ASP.NET Core utilities, such as for working with forms, multipart messages, and query strings.
 	Microsoft.Extensions.WebEncoders by Microsoft, 116M downloads	v5.0.0-preview.6.20312.15	Contains registration and configuration APIs to add the core framework encoders to a dependency injection container.
 	Microsoft.Web.Infrastructure by Microsoft, 72.2M downloads	v1.0.0	This package contains the Microsoft.Web.Infrastructure assembly that lets you dynamically register HTTP modules at run time.
 	Microsoft.AspNetCore.WebApi.Client by Microsoft, 128M downloads	v5.2.7	This package adds support for formatting and content negotiation to System.Net.Http.
 	Microsoft.AspNetCore.WebPages by Microsoft, 87.4M downloads	v3.2.7	This package contains core runtime assemblies shared between ASP.NET MVC and ASP.NET Web Pages.
 	Microsoft.AspNetCore.WebApiWebHost by Microsoft, 74.9M downloads	v5.2.7	This package contains everything you need to host ASP.NET Web API on IIS.
 	Microsoft.AspNetCore.WebApi.Core by Microsoft, 94.2M downloads	v5.2.7	This package contains the core runtime assemblies for ASP.NET Web API.

Each package is licensed to you by its owner. NuGet is not responsible for, nor does it grant any licenses to, third-party packages.

Do not show this again

Microsoft.Web.WebView2 

Installed: v0.9.538-prerelease 

Version: **0.9.538-prerelease** 

 Options

Description
The Microsoft Edge WebView2 control enables you to host web content in your Windows apps. This package is necessary for Win32 C/C++, WPF and WinForms, and WinUWP 3.0 WebView2.

Version: 0.9.538-prerelease
Author(s): Microsoft
License: [View License](#)
Date published: Monday, June 8, 2020 (6/8/2020)
Project URL: <https://aka.ms/webview>
Report Abuse: <https://www.nuget.org/packages/Microsoft.Web.WebView2/0.9.538-prerelease/ReportAbuse>

Tags: Microsoft, Web, WebView, Native, native, package, Edge, C++, Win32, WPF, WinForms, desktop, framework, core, WebView2

Dependencies
native, Version=v0.0
No dependencies

MainWindow

The screenshot shows a desktop application window for 'MainWindow'. The title bar includes standard window controls and a 'Hot Reload' button. The main content area displays the Packt website. At the top, there's a search bar with a magnifying glass icon, navigation links for 'Browse All', 'Free Learning', 'Sign In', and a shopping cart icon, along with a 'Subscribe' button. A large banner headline reads 'Stay up to date in tech with the online library for developers'. Below it, text says 'Access over 7,500+ practical books and videos on new and emerging tech - anytime, anywhere.' An orange 'Get Started for FREE' button is prominent. On the left, there are thumbnail images of various book covers, including titles like 'Machine Learning With Microsoft Excel 2019' and 'GPU Computing with Python'. On the right, more book thumbnails are visible, such as 'Python Web Scraping' and 'Angular'. A 'NEW Interactive Courses - Hands on labs with coding exercises' section with an 'Explore Now' button is also present.

Windows Desktop

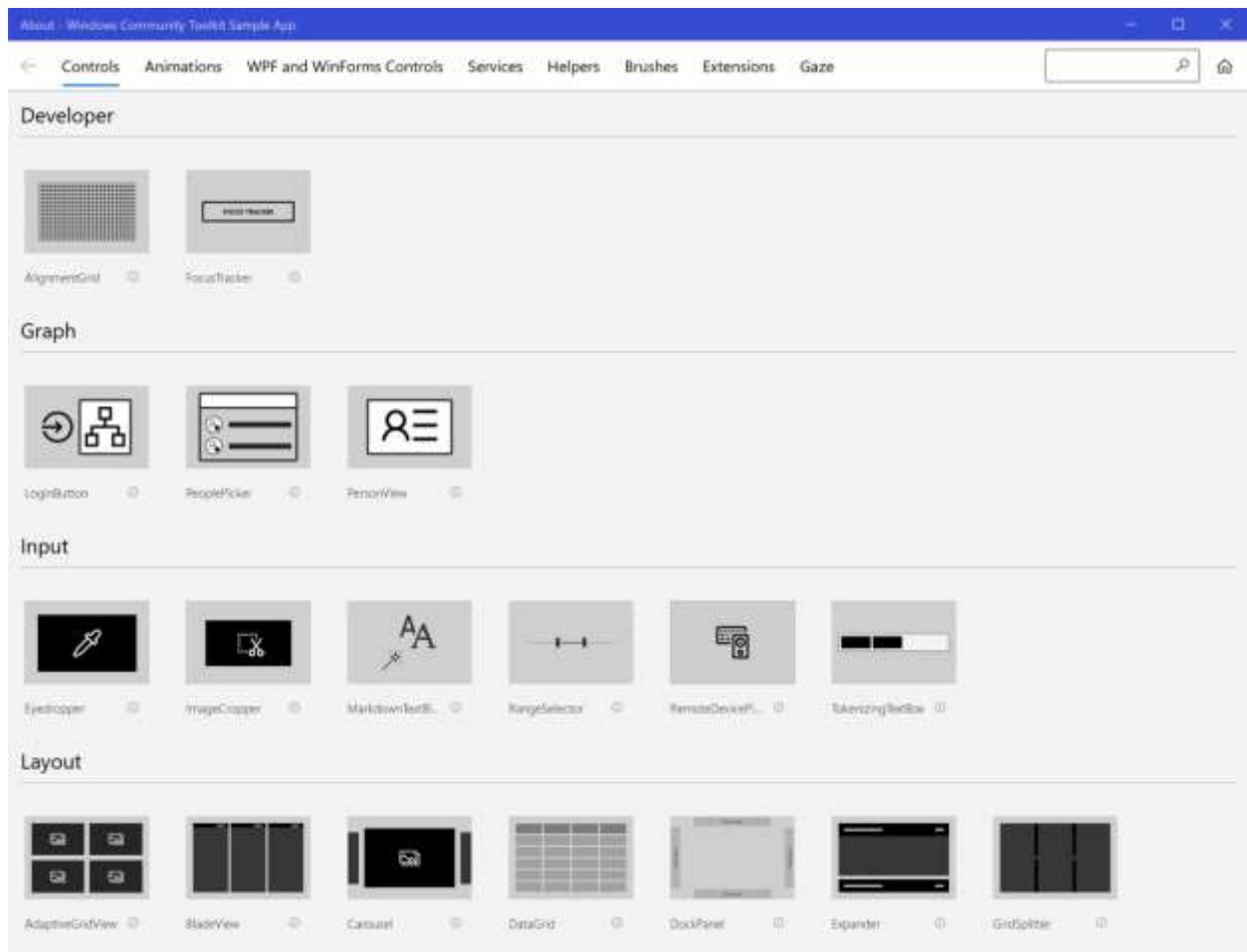
https://docs.microsoft.com

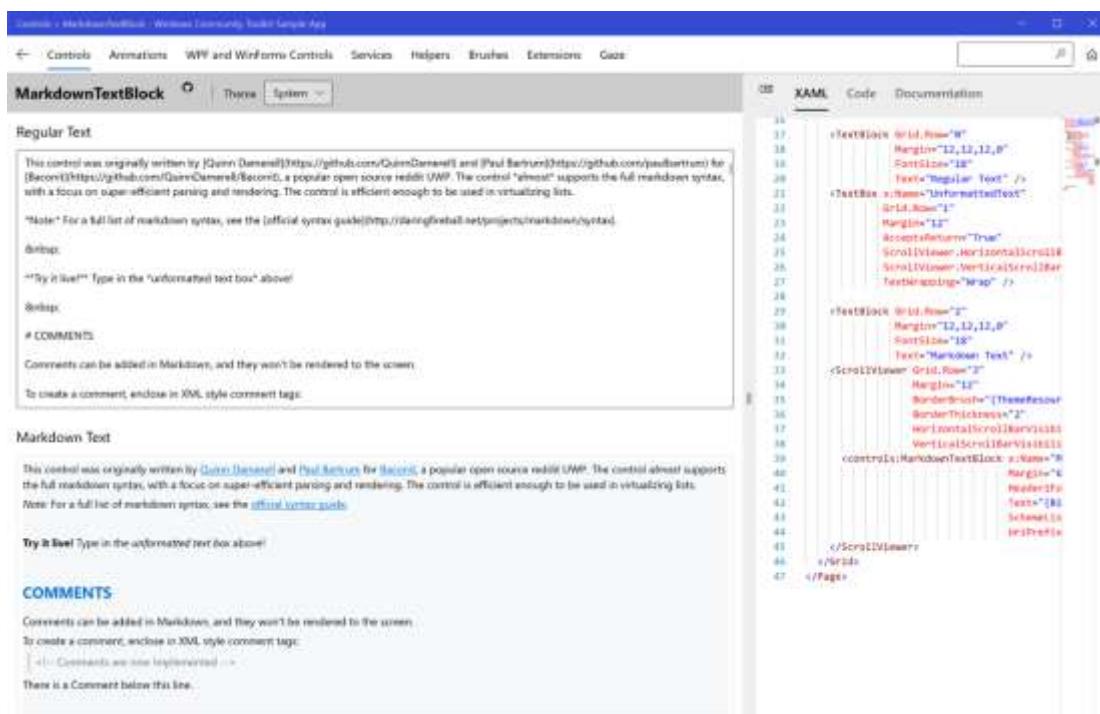
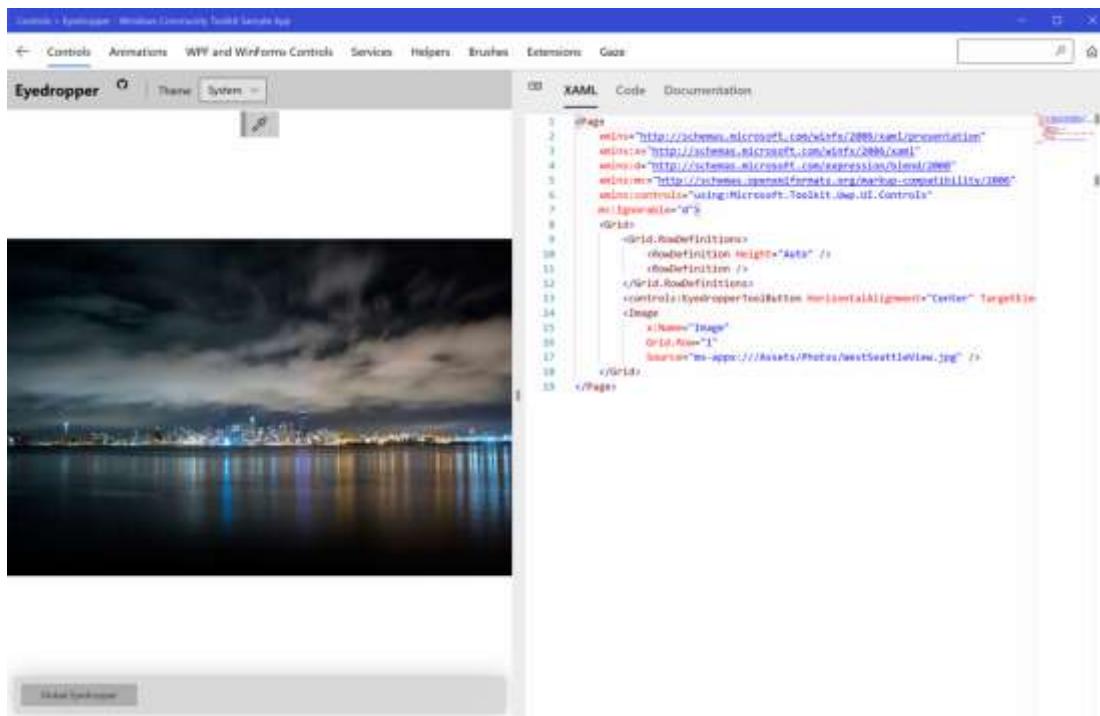
The screenshot shows a browser window for 'Windows Desktop' with the URL 'https://docs.microsoft.com'. The Microsoft logo is at the top, followed by a navigation bar with 'Docs', 'Documentation', 'Learn', 'Q&A', and 'Code Samples'. There's also a search bar and a 'Sign in' link. The main content area features a large heading 'Microsoft Docs'. Below it, a sub-headline states 'docs.microsoft.com is the home for Microsoft documentation for end users, developers, and IT professionals. Check out our quickstarts, tutorials, API reference, and code examples.' A horizontal navigation bar below the heading contains links for Windows, Azure, Visual Studio, Office, Microsoft 365, .NET, ASP.NET, SQL, Enterprise Mobility + Security, Microsoft Surface, Dynamics 365, Xamarin, Azure DevOps, System Center, PowerShell, Microsoft Graph, Microsoft Education, and Gaming. A 'Docs Directory' section follows, with a grid of links: .NET, Adaptive Cards, ASP.NET, Azure, Microsoft 365 Business, Microsoft 365 Enterprise, Microsoft Advertising, Microsoft Edge, Office, Office 365, OneDrive, and Open Specifications.

Chapter 9: Enhancing Applications with the Windows Community Toolkit



A screenshot of the Windows Community Toolkit website. The header includes navigation links: Controls, Animations, WPF and WinForms Controls, Services, Helpers, Brushes, Extensions, and Gaze. The main content area has a pink-to-white gradient background with a floral watermark. It features sections for "Get Started", "Recent Activity" (which says "None"), "Toolkit" (with links to GitHub Repository, Documentation, GitHub Issues, Roadmap, Contributors, and UWP Community Discord), "Useful links" (Developer Center, Get started with Windows apps, Windows apps design, Code samples, UWP app samples, KAML Controls Gallery, KAML Studio, Windows UI Library, Windows Template Studio, and UI for UWP), "What's New" (listing TokenizingTextBox, PipelineBrush, WrapLayout, IsNullOrEmptyStateTrigger, and High Performance APIs), and "Release Notes" (listing notes for Version 6.1.0 (June 15), Version 6.0.0 (June 13), Version 5.1.1 (March 15), Version 5.1.0 (February 15), and Version 5.0.0 (October 31)).





WPF and Windows Controls | MapControl | Windows Community Toolkit Sample App

← Controls Animations WPF and WinForms Controls Services Helpers Brushes Extensions Gaze

MapControl

Documentation

MapControl for Windows Forms and WPF

The `MapControl` class enables you to display a symbolic or photorealistic map in your Windows Forms or WPF desktop application. This is one of several wrapped Universal Windows Platform controls that are available for Windows Forms and WPF applications as part of a feature called XAML Islands. For more information, see [XAML controls in desktop applications \(XAML Islands\)](#).

This control shows rich and customizable map data including road maps, aerial, 3D, views, directions, search results, and traffic. You can also display the user's location, directions, and points of interest.



Note

This control is currently available as a developer preview for Windows 10, version 1803, and later. Although we encourage you to try out this control in your own prototype code now, we do not recommend that you use it in production code at this time. For more information, see the [XAML Islands Issues](#). If you have feedback about this control, create a new issue in the [Microsoft.Toolkit.Wpf.UITools](#) repo and leave your comments there. If you prefer to submit your feedback privately, you can send it to jaylafontainefeedback@microsoft.com.

About MapControl

This control wraps an instance of the `UWP WindowsUIControls.Maps.MapControl` class. The WPF version of this control is located in the `Microsoft.Toolkit.Wpf.UI.Controls` namespace. The Windows Forms version is located in the `Microsoft.Toolkit.Forms.UC.Controls` namespace. You can find additional related types (such as enumerations and event args classes) in the `Microsoft.Toolkit.Win32.UC.Interop.WinfRT` namespace.

Requirements

Before you can use this control, you must follow these instructions to configure your project to support XAML Islands.

Known issues and limitations

See our list of [known issues](#) for WPF and Windows Forms controls in the Windows Community Toolkit repo.

Screenshot of the Windows Forms Controls - MediaPlayerElement page in the Microsoft Windows Toolkit documentation.

The page title is "MediaPlayerElement". The navigation bar includes "Controls", "Animations", "WPF and WinForms Controls", "Services", "Helpers", "Brushes", "Extensions", and "Galleries".

MediaPlayerElement

Documentation

MediaPlayerElement control for Windows Forms and WPF

This control embeds a view that streams and renders media content such as video in your Windows Forms or WPF desktop application. This is one of several wrapped Universal Windows Platform controls that are available for Windows Forms and WPF applications as part of a feature called XAML Islands. For more information, see [UWP controls in desktop applications \(XAML Islands\)](#).

Note

This control is currently available as a developer preview for Windows 10, version 1803, and later. Although we encourage you to try out this control in your own prototype code now, we do not recommend that you use it in production code at this time. For more information, see the [XAML Islands Issues checklist](#). If you have feedback about this control, create a new issue in the [Microsoft.Toolkit.Wpf10](#) repo and leave your comments. There, if you prefer to submit your feedback privately, you can send it to FeedbackForMediaElement@outlook.com.

About MediaPlayerElement control

This control wraps an instance of the UWP `Windows.UI.Xaml.Controls.MediaPlayerElement` control. The WPF version of this control is located in the `Microsoft.Toolkit.Wpf.UILibrary` namespace. The Windows Forms version is located in the `Microsoft.Toolkit.Forms.UITools` namespace. You can find additional related types (such as events and event args classes) in the `Microsoft.Toolkit.Win32.UITools` namespace.

Requirements

Before you can use this control, you must follow these instructions to configure your project to support XAML Islands.

Known issues and limitations

- This control does not currently support full screen video.

Screenshot of the "Create a new project" dialog in Visual Studio.

The search bar contains "WinUI in Desktop".

Recent project templates:

- Blank App, Packaged (WinUI in Desktop) C++
- Blank App, Packaged (WinUI in Desktop) C#
- Blank App (Universal Windows) C#
- Blank App (WinUI in UWP) C#
- Unit Test App (Universal Windows) C#

Filtering options:

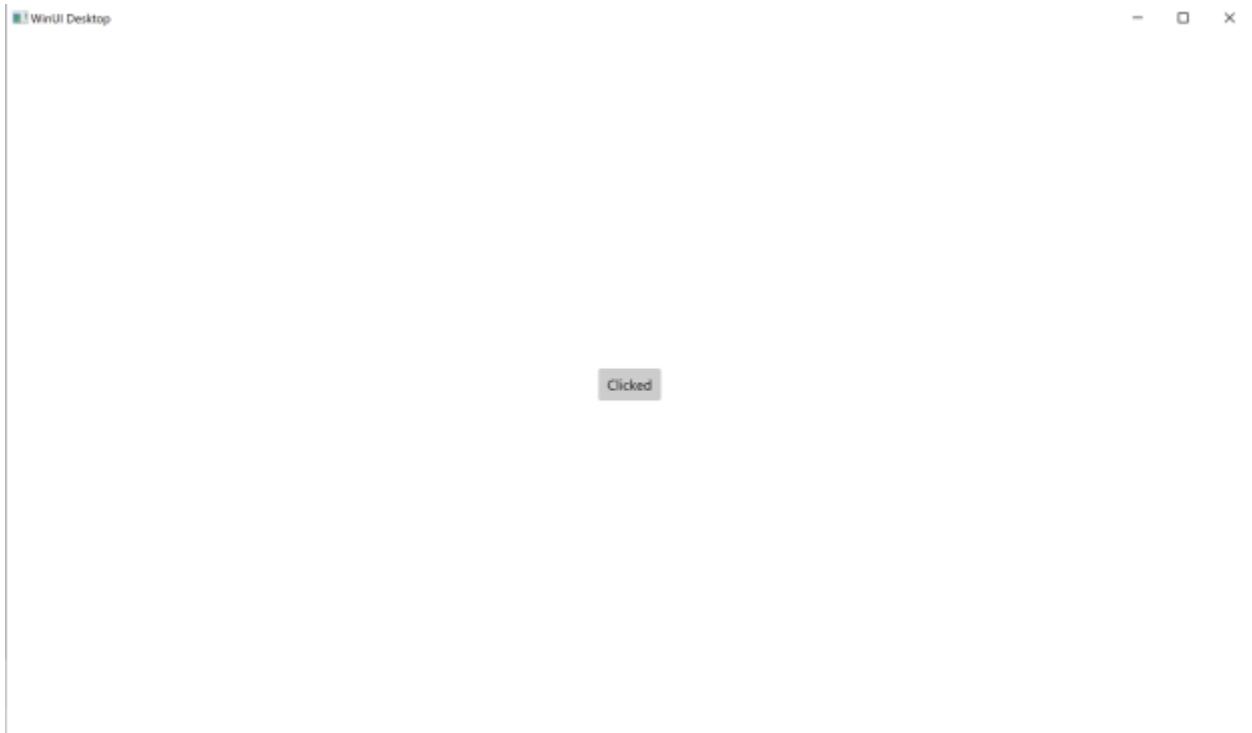
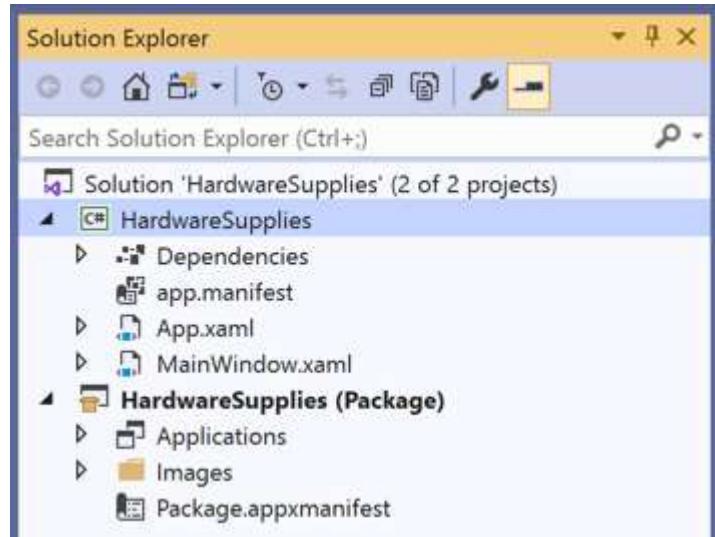
- All languages
- All platforms
- All project types

Available project templates:

- Blank App, Packaged (WinUI in Desktop)**
A project for creating a **Desktop** app based on the Windows UI Library (**WinUI**) along with a MSIX package for side-loading or distribution via the Microsoft Store.
C++ Windows **Desktop** **WinUI**
- Blank App, Packaged (WinUI in Desktop)**
A project for creating a **Desktop** app based on the Windows UI Library (**WinUI**) along with a MSIX package for side-loading or distribution via the Microsoft Store.
C# Windows **Desktop** **WinUI**
- Class Library (WinUI in Desktop)**
A project for creating a managed class library (.dll) for **Desktop** apps based on the Windows UI Library (**WinUI**).
C# Windows **Desktop** **WinUI**
- Blank App (WinUI in UWP)**
A project for creating a Universal Windows Platform (UWP) app based on the Windows UI Library (**WinUI**).
C++ Windows UWP **WinUI**
- Blank App (WinUI in UWP)

Buttons at the bottom:

- Back
- Next



NuGet Package Manager: HardwareSupplies

Package source: [nuget.org](#)

include prelease

Microsoft.Toolkit.Uwp.UI.Controls	v7.0.0-preview1
 Microsoft.Toolkit.Uwp.UI.Controls by Microsoft.Toolkit, 532K downloads	This library provides XAML templated controls. It is part of the Windows Community Toolkit.
 Microsoft.Toolkit.Uwp.UI.Controls.DataGrid by Microsoft.Toolkit, 102K downloads	v7.0.0-preview1 This library provides a XAML DataGrid control. It is part of the Windows Community Toolkit.
 Microsoft.Toolkit.Uwp.UI.Controls.Graph by Microsoft.Toolkit, 8.32K downloads	v6.0.0 This library provides Microsoft Graph XAML controls. It is part of the Windows Community Toolkit.
 Microsoft.Toolkit.Uwp.UI.Lottie by Microsoft.Toolkit, 25.4K downloads	v6.1.0 This library provides the LottieVisualSource which is consumed by the Microsoft.UWP.XamlControls.AnimatedVisualPlayer to render Lottie JSON files.
 Microsoft.Toolkit.Wpf.UI.Controls by Microsoft.Toolkit, 26.4K downloads	v6.1.0 This library provides XAML controls for WPF. It is part of the Windows Community Toolkit.
 Microsoft.Toolkit.Wpf.UI.XamlHost by Microsoft.Toolkit, 46.5K downloads	v6.1.0 This library provides XAML islands helpers for WPF. It is part of the Windows Community Toolkit. By using the WindowsXamlHost control, you can add built-in or custom UWP controls to the User Interface (UI) of yo...
 Uno.Microsoft.Toolkit.Uwp.UI.Controls by Microsoft.Toolkit, 6.01K downloads	v6.1.0-build.71g38c59ea2af This library provides XAML templated controls. It is part of the Windows Community Toolkit.

Microsoft.Toolkit.Uwp.UI.Controls, [nuget.org](#)

Version: [Latest prelease 7.0.0-preview1](#) [Install](#)

[Options](#)

Description
This library provides a XAML DataGrid control. It is part of the Windows Community Toolkit.

Version: 7.0.0-preview1
Author(s): Microsoft.Toolkit
License: [View License](#)

Date published: Monday, April 20, 2020 (4/20/2020)
Project URL: <https://github.com/windows-toolkit/WindowsCommunityToolkit>

Report Abuse: <https://www.nuget.org/packages/Microsoft.Toolkit.Uwp.UI.Controls.DataGrid/7.0.0-preview1/ReportAbuse>

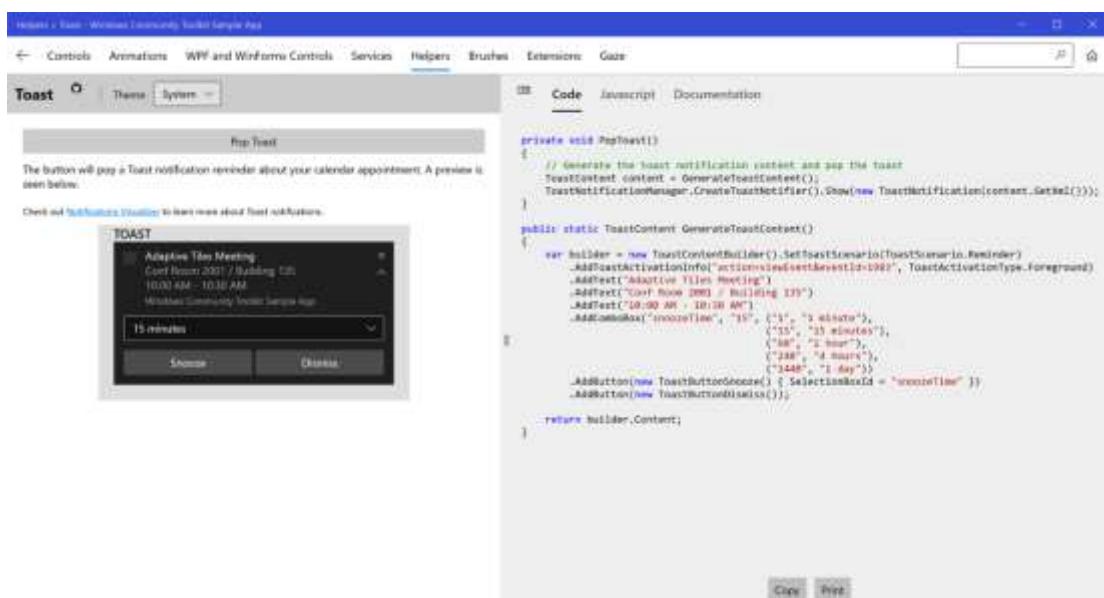
Tags: UWP, Toolkit, Windows, Controls, XAML, DataGrid

Dependencies

- UAP Version v10.0.16299
No dependencies

Hardware Inventory

id	name	category	quantity	cost	price
1	Wood Screw	Screws	504	0.02	0.10
2	Sheet Metal Screw	Screws	655	0.03	0.15
3	Drywall Screw	Screws	421	0.02	0.11
4	Galvanized Nail	Nails	5620	0.04	0.16
5	Framing Nail	Nails	12000	0.06	0.20
6	Finishing Nail 2 inch	Nails	1405	0.02	0.11
7	Finishing Nail 1 inch	Nails	1110	0.01	0.10
8	Light Switch - White	Electrical	78	0.25	1.99
9	Outlet - White	Electrical	56	0.21	1.99
10	Outlet - Beige	Electrical	90	0.21	1.99
11	Wire Ties	Electrical	125	0.50	4.99
12	Switch Plate - White	Electrical	200	0.21	2.49



Services > Microsoft Translator Service > Windows Communication Foundation Sample App

← Controls Animations WPF and Winforms Controls Services Helpers Brushes Extensions Guide

Microsoft Translator Service

Code Documentation

Translator Service Key:

Go to Azure Portal to get a Service Key

Sentence:

The Fox is brown.

Get Languages

Target Language:

Dutch

Translate

```
* Go to Azure Portal at https://portal.azure.com/#resource/Microsoft.CognitiveServices/services/microsoftTextTranslation
* to get a Translator service key.
 */
await TranslatorService.Instance.InitializeAsync("microsoft-text-translation-key");

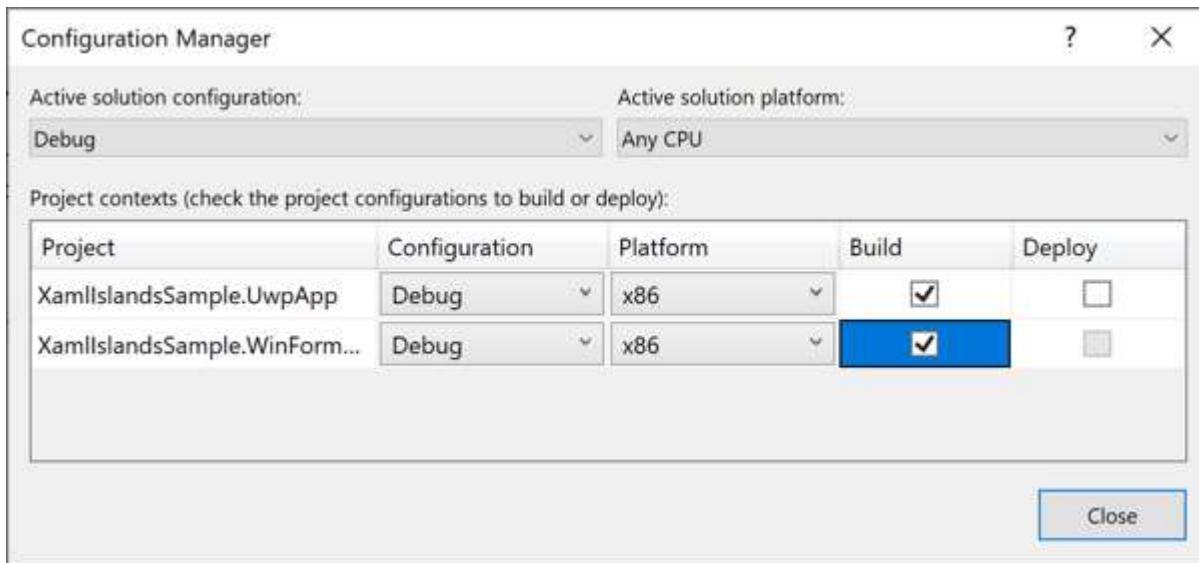
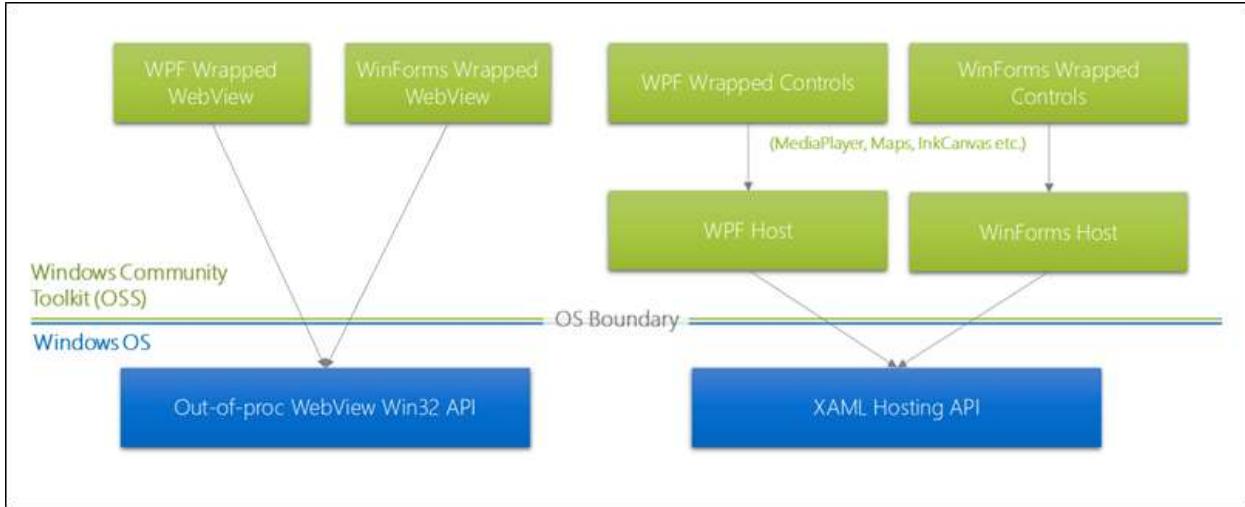
// Retrieves codes and friendly names for the languages available for text translation.
var Languages = await TranslatorService.Instance.GetLanguagesAsync("en");

// Detects the language of a text.
var detectResult = await TranslatorService.Instance.DetectLanguageWithResponseAsync("Hello everyone!");
var detectedLanguage = detectResult.Language;
var detectedLanguageConfidence = detectResult.Score;

// Translates the text to Italian.
var translationResult = await TranslatorService.Instance.TranslateWithResponseAsync("Hello everyone!", "it");
var translatedText = translationResult.Translation.Text;
```

Copy Print

Chapter 10: Modernizing Existing Win32 Applications with XAML Islands



Host Form

First name:	Joe		
Last name:	Smith		
Date of interview:	May	19	2019
Accepted:	Yes ▾		

1 items saved.

Host Form

First name:	January	15	2015	<input type="checkbox"/> <input type="button" value="X"/>
Last name:	February	16	2016	<input type="checkbox"/> <input type="button" value="X"/>
Date of interview:	March	17	2017	<input type="checkbox"/> <input type="button" value="X"/>
Accepted:	April	18	2018	<input type="checkbox"/> <input type="button" value="X"/>
	May	19	2019	<input type="checkbox"/> <input type="button" value="X"/>
	June	20	2020	<input type="checkbox"/> <input type="button" value="X"/>
	July	21	2021	<input type="checkbox"/> <input type="button" value="X"/>
	August	22	2022	<input type="checkbox"/> <input type="button" value="X"/>
	September	23	2023	<input type="checkbox"/> <input type="button" value="X"/>

WPF Host

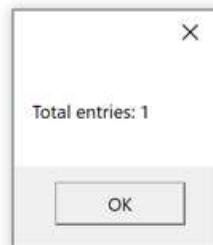
First name:

Last name:

Date of interview: month day year

Accepted:

1 items saved.



Get Total Entries

My keys

Create key

Application name *

Application URL

Key type *

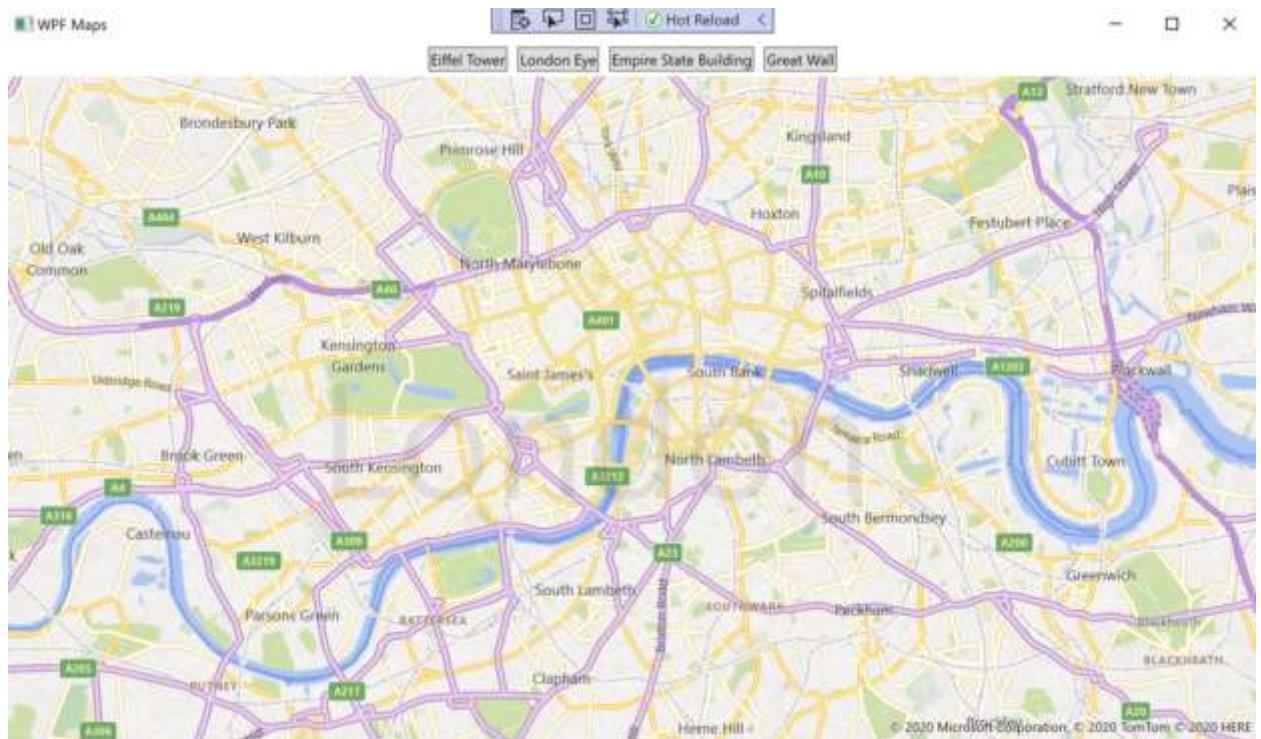
[What's This](#)

Application type *

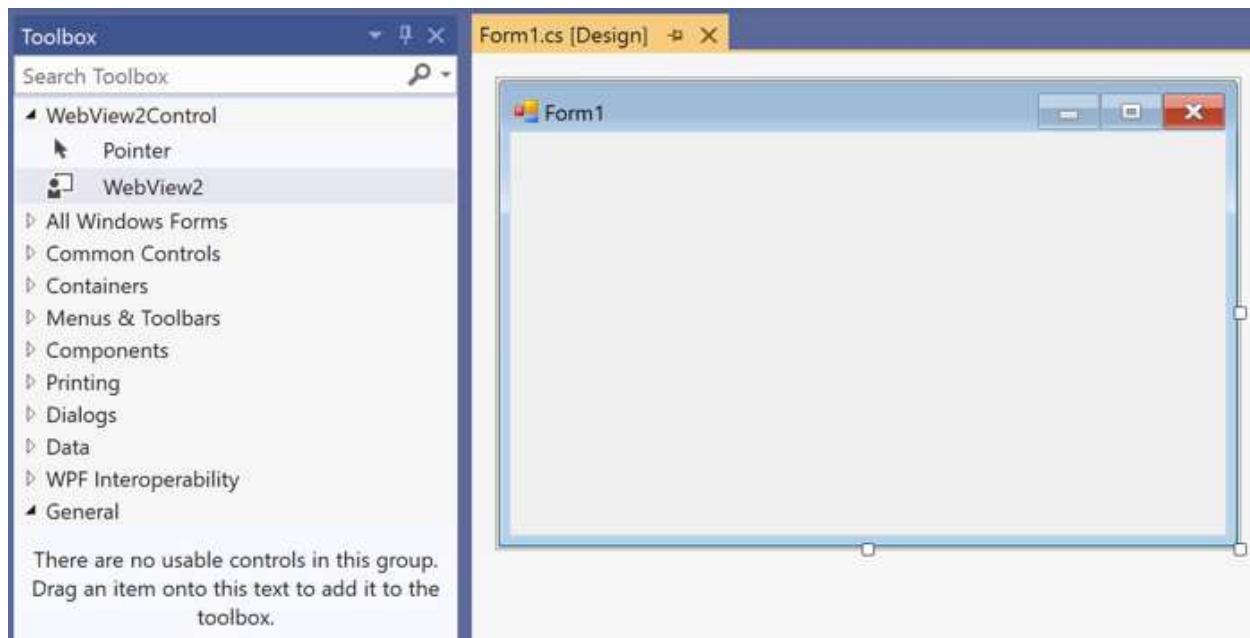


* Required field

To create Education, Broadcast or Not-for-Profit keys, please contact the Bing Maps account team at mpnet@microsoft.com.



A screenshot of a Windows application window titled "WPF Maps". Inside the window, a browser window is open to the Wikipedia page for the Great Wall of China. The page title is "Great Wall of China". Below the title, it says "From Wikipedia, the free encyclopedia". To the right of the text, it shows the coordinates "40.68°N 117.23°E". The main text of the article describes the Great Wall of China as a collective name for a series of fortification systems built across northern China to protect against nomadic groups. A sidebar on the left contains links to the main page, contents, current events, random article, about Wikipedia, contact us, donate, contribute, help, community portal, and recent changes. On the right side of the Wikipedia page, there is a thumbnail image of the Great Wall of China winding through a mountainous landscape.



WinUI

The modern native UI platform of Windows.

[Learn more](#)

Try WinUI 3 -
Project Reunion 0.5 Preview



Explore the advantages of our platform.



Modern UI



Performance



Control

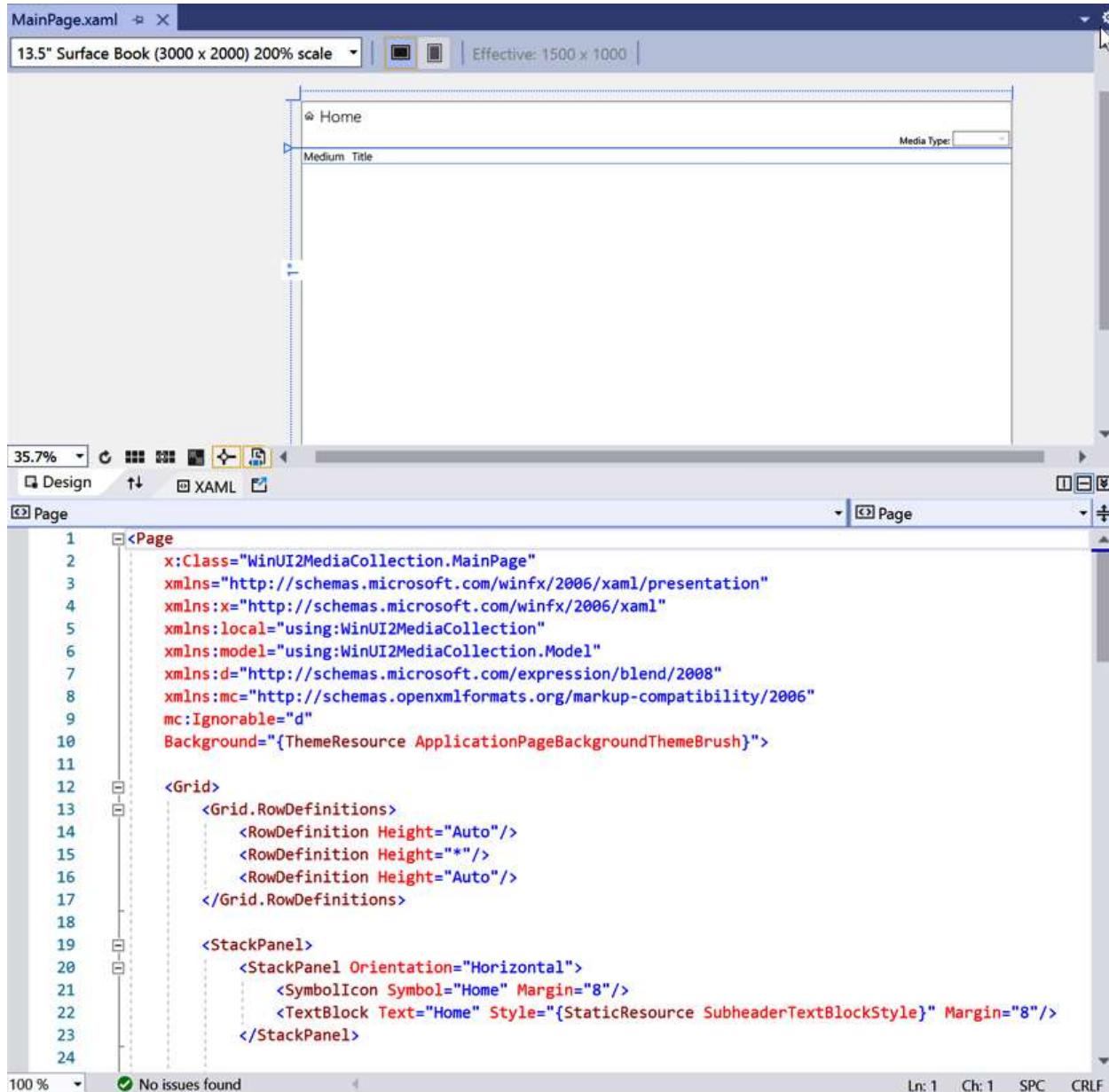


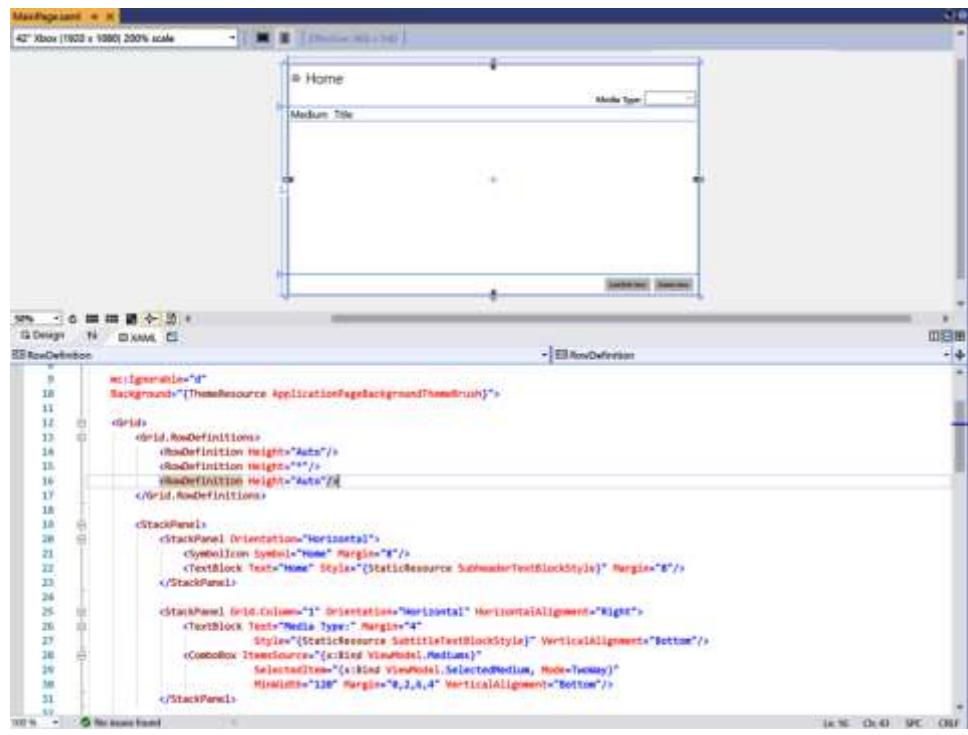
Choice



Evolution

Chapter 11: Debugging WinUI Applications with Visual Studio





Debug Installed App Package

? X

Connection Type:

Local Machine

Installed App Packages:

Search



Not running



1527c705-839a-4832-9118-54d4Bd6a0c89_10.0.19041.423_neutral_neutral_cw5n1h2txye

Package Full Name: 1527c705-839a-4832-9118-54d4Bd6a0c89_10.0.19041.423_neutral_neutr...

Version: 10.0.19041.423



c5e2524a-ea46-4f67-841f-6a9465d9d515_10.0.19041.423_neutral_neutral_cw5n1h2txye

Package Full Name: c5e2524a-ea46-4f67-841f-6a9465d9d515_10.0.19041.423_neutral_neutra...

Version: 10.0.19041.423

CapturePicker

Package Full Name: Microsoft.Windows.CapturePicker_10.0.19041.423_neutral_cw5n1h2txyewy

Version: 10.0.19041.423



Cortana

Package Full Name: Microsoft.549981C3F5F10_2.2007.24732.0_x64_8wekyb3d8bbwe

Version: 2.2007.24732.0

Refresh

Debug this code type:

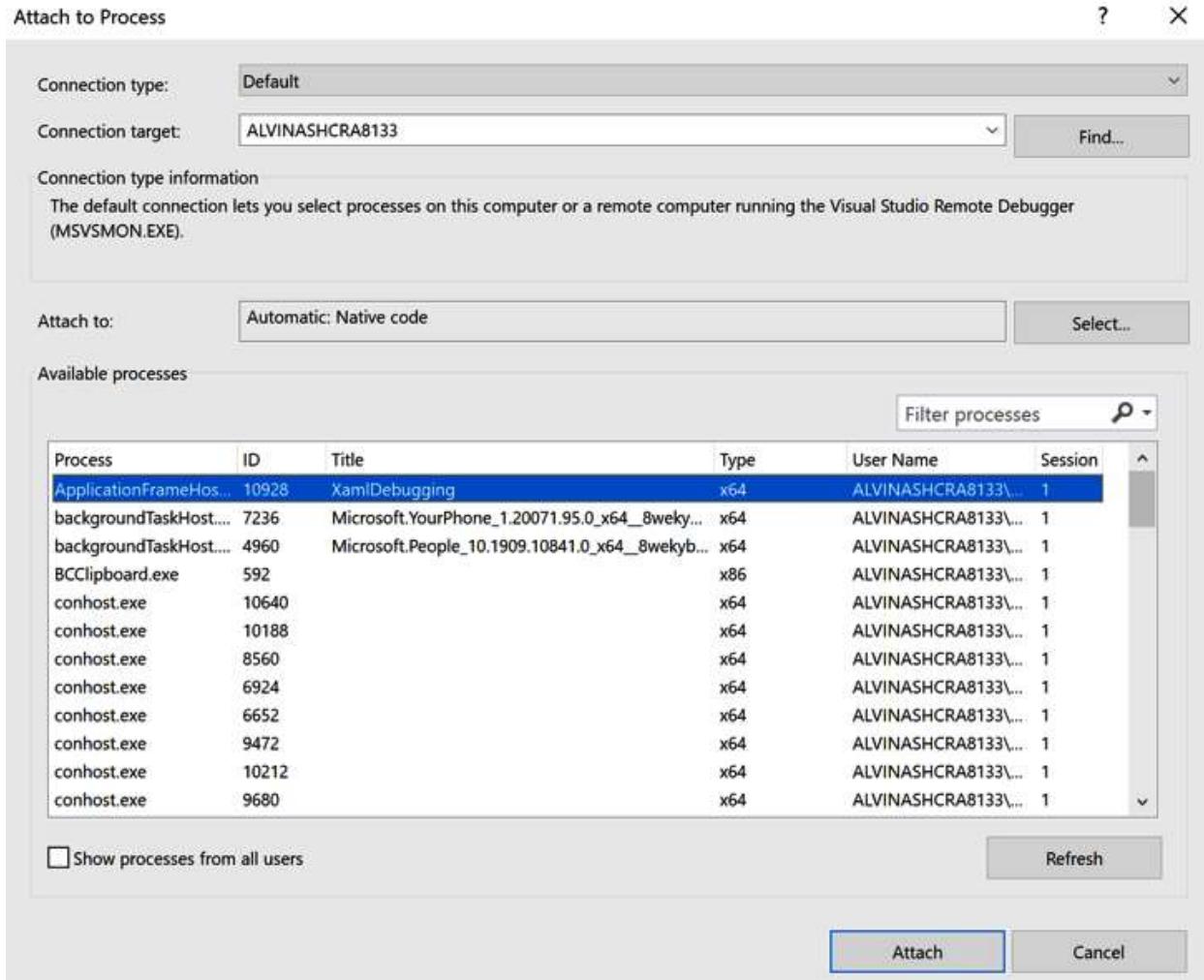
Managed Only

Do not launch, but debug my code when it starts

Stop at first statement

Activate app with Prelaunch

Start



Debug Installed App Package

? X

Connection Type:

Remote Machine

Address: **Not Configured**

Authentication Mode: **Not Configured**

[Change](#)

Installed App Packages:

Search



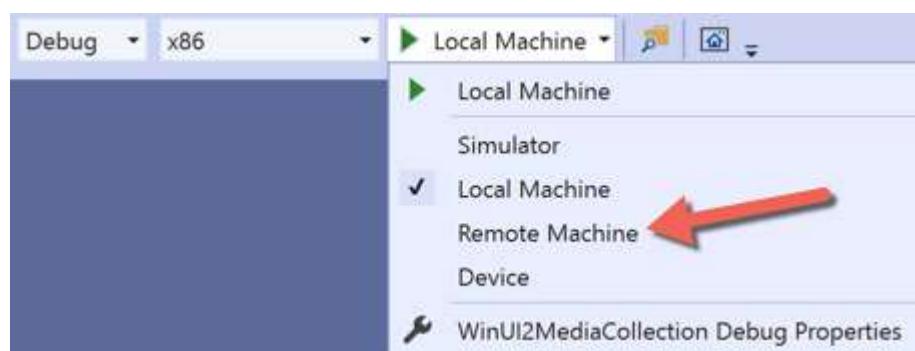
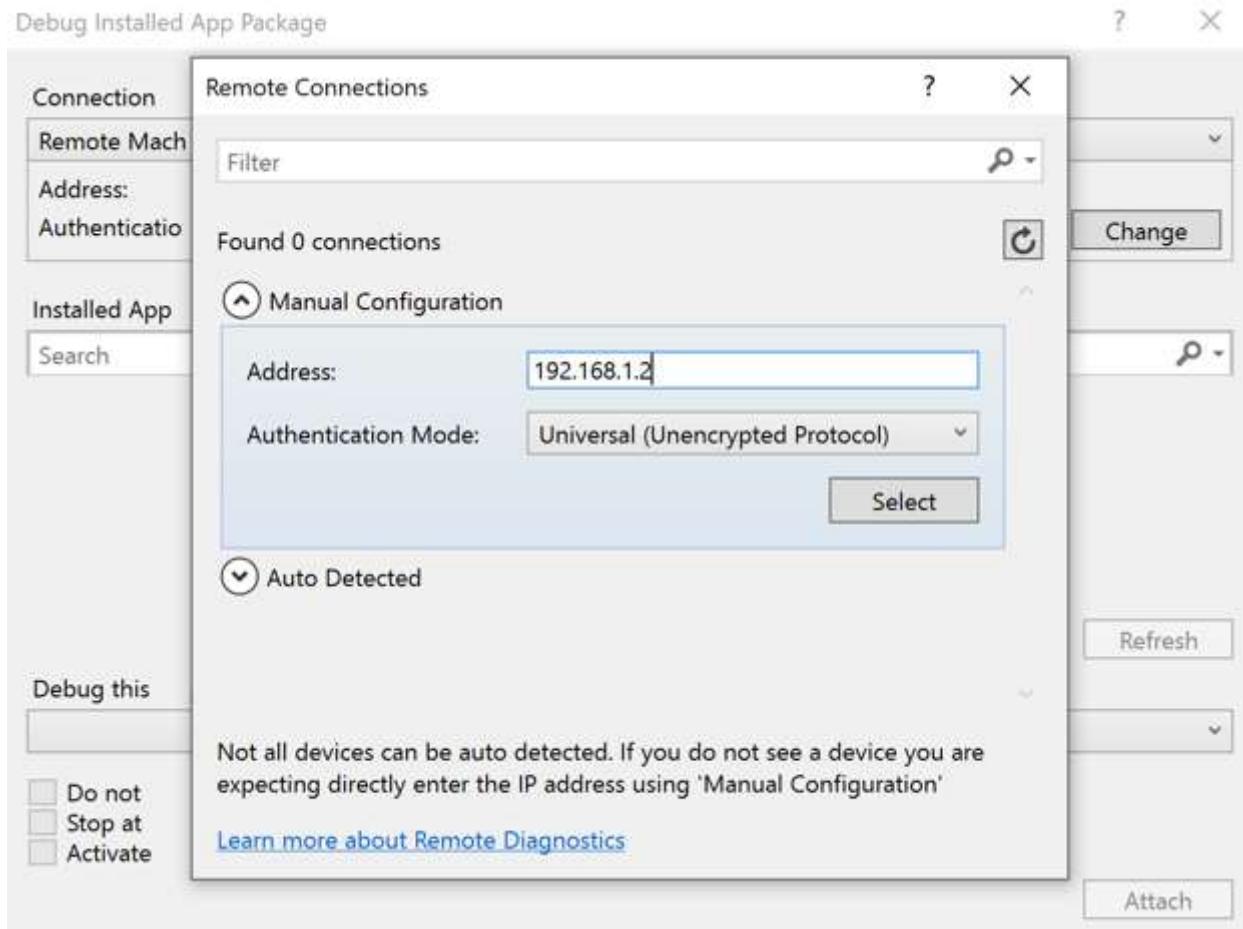
No App Packages found

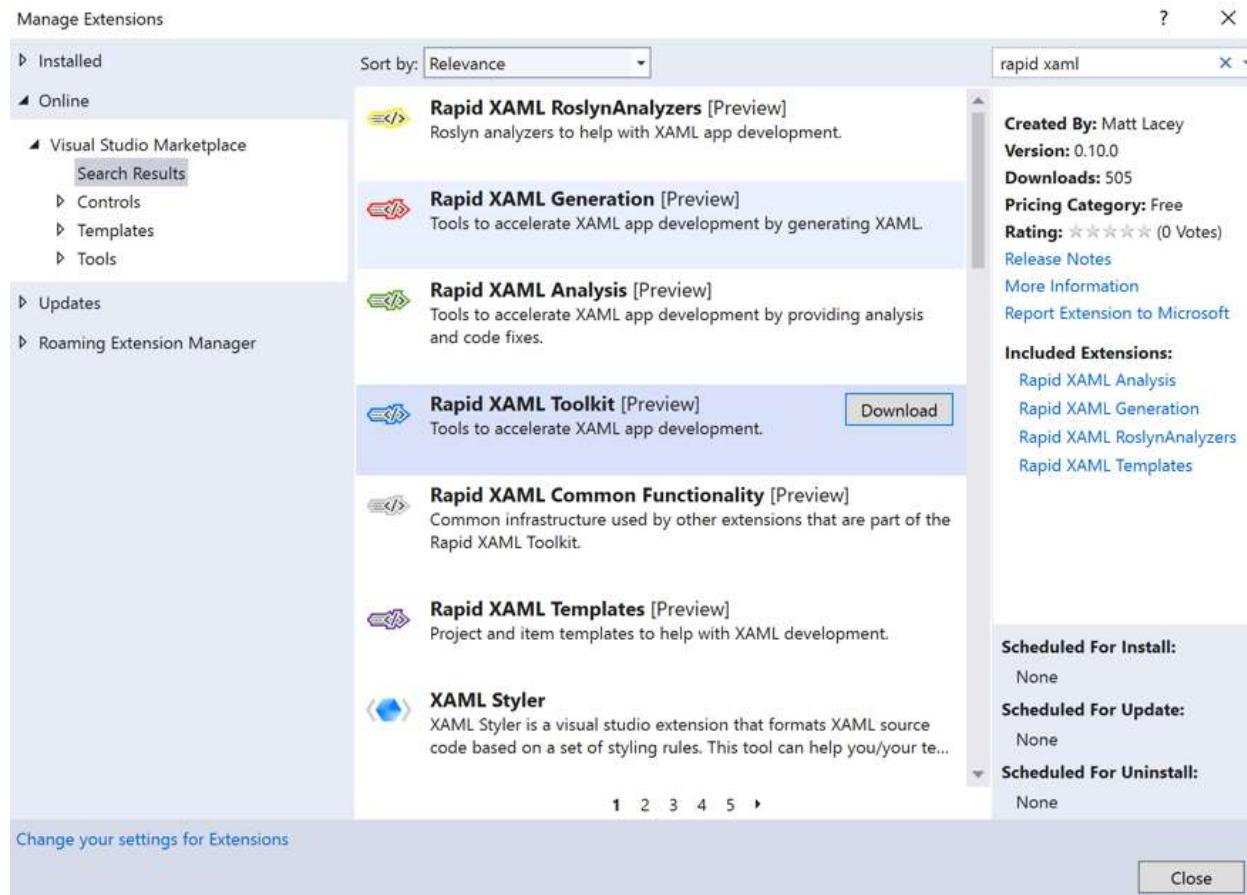
[Refresh](#)

Debug this code type:

- Do not launch, but debug my code when it starts
- Stop at first statement
- Activate app with Prelaunch

[Attach](#)





Code	Description	Project	File	Line	Suppress Date
RXT200	TextBlock contains hard-coded Text value 'Item Details'	WpfControlCollection	ItemDetailsPage.xaml	13	
RXT200	TextBlock contains hard-coded Text value 'Name:'	WpfControlCollection	ItemDetailsPage.xaml	18	
RXT200	TextBlock contains hard-coded Text value 'Model Type:'	WpfControlCollection	ItemDetailsPage.xaml	19	
RXT200	TextBlock contains hard-coded Text value 'Model ID:'	WpfControlCollection	ItemDetailsPage.xaml	20	
RXT200	TextBlock contains hard-coded Text value 'Location'	WpfControlCollection	ItemDetailsPage.xaml	21	
RXT200	TextBlock contains hard-coded Text value 'Location'	WpfControlCollection	ItemDetailsPage.xaml	22	
RXT200	Button contains hard-coded Content value 'Save and Return'	WpfControlCollection	ItemDetailsPage.xaml	23	
RXT200	Button contains hard-coded Content value 'Save and Create New'	WpfControlCollection	ItemDetailsPage.xaml	24	
RXT200	Button contains hard-coded Content value 'Cancel'	WpfControlCollection	ItemDetailsPage.xaml	25	

```

<StackPanel Orientation="Horizontal">
    <SymbolIcon Symbol="Edit" Margin="8"/>
    <TextBlock Text="Item Details" Style="{StaticResource SubheaderTextBlockStyle}" Margin="8"/>
</StackPanel>

<Grid Grid.Row="1">
    <Grid.RowDefinitions>
        <RowDefinition Height="Auto"/>
        <RowDefinition Height="Auto"/>
        <RowDefinition Height="Auto"/>
    </Grid.RowDefinitions>
    <TextBlock Text="Name:" Margin="10,0,0,0" Style="TextElementStyle"/>
    <TextBlock Text="Model Type:" Margin="10,0,0,0" Style="TextElementStyle"/>
    <TextBlock Text="Model ID:" Margin="10,0,0,0" Style="TextElementStyle"/>
    <TextBlock Text="Location:" Margin="10,0,0,0" Style="TextElementStyle"/>
    <TextBlock Text="Location:" Margin="10,0,0,0" Style="TextElementStyle"/>
    <TextBlock Text="Save and Return" Margin="10,0,0,0" Style="TextElementStyle"/>
    <TextBlock Text="Save and Create New" Margin="10,0,0,0" Style="TextElementStyle"/>
    <TextBlock Text="Cancel" Margin="10,0,0,0" Style="TextElementStyle"/>
</Grid>

```

Move hard-coded string to resource file.
Do not warn about RXT200.

XamlDebugging

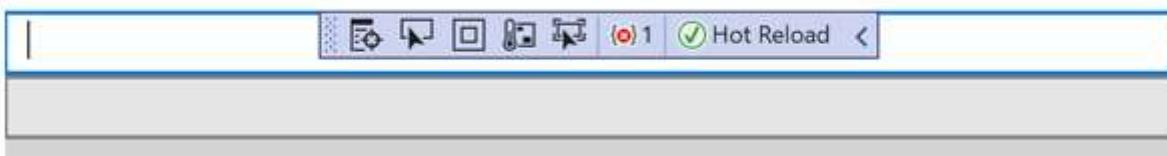


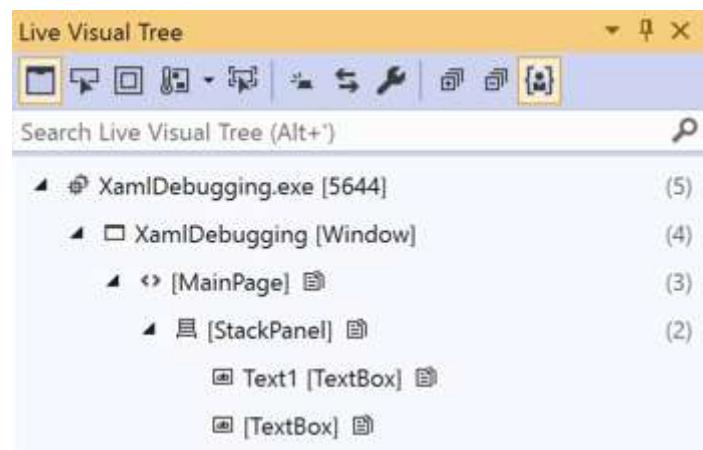
XAML Binding Failures					
Count	Data Context	Binding Path	Target	Target Type	Description
1	Windows.Foundation.Reference`1<String>	SomeText	Windows.UI.Xaml.Controls.TextBlock	String	BindingExpression path error: 'SomeText' property not found on 'Windows.Foundation.Reference`1<String>'.

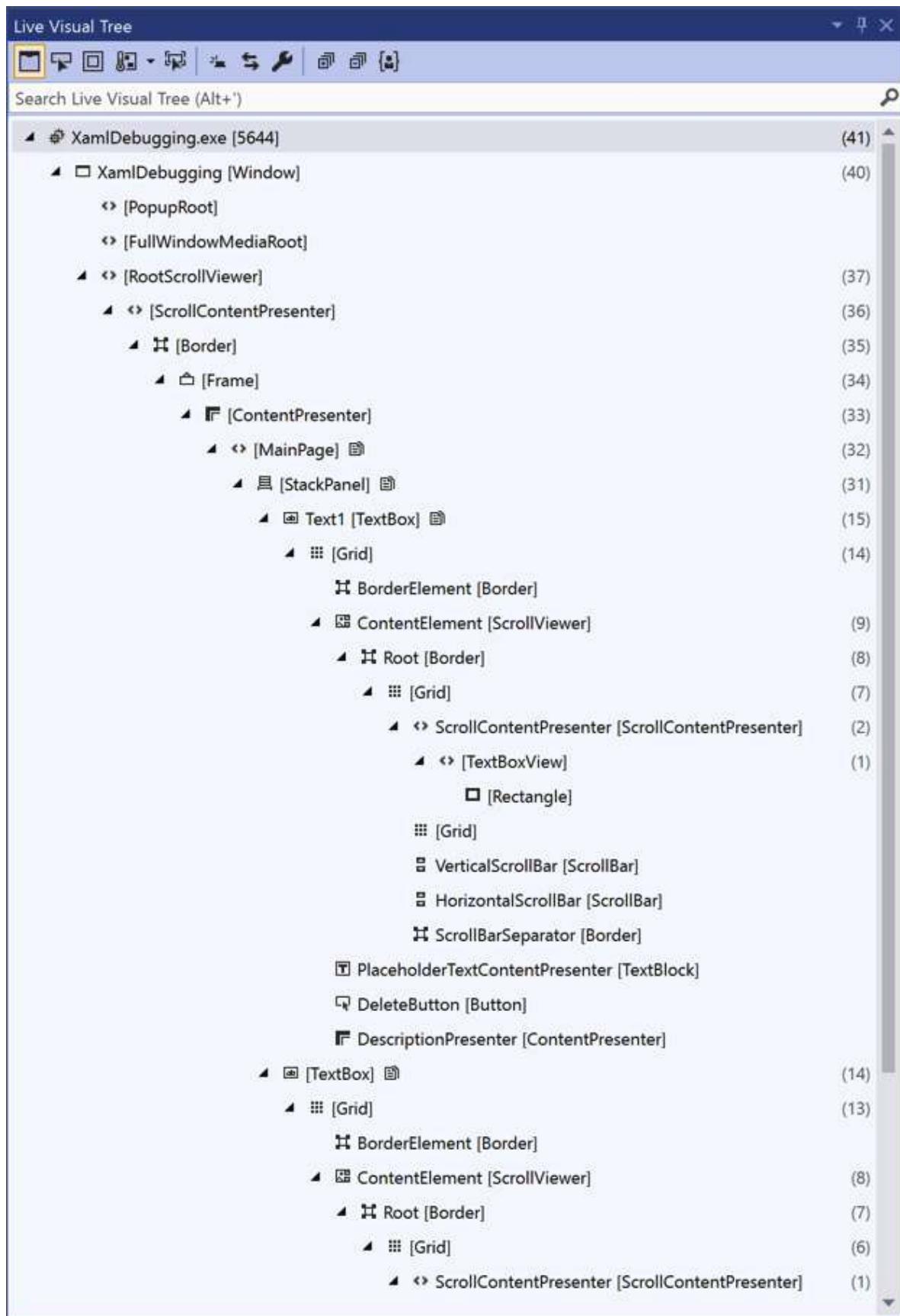
XamlDebugging



XamlDebugging







Live Property Explorer

Name: Text1
Type: TextBox

Search Properties (Alt+'')

► Accessibility

▲ Local MainPage.xaml

- CenterPoint: 0.000000,0.000000,0.000000
- Handout Visual: Visual
- Rotation: 0
- RotationAxis: 0.000000,0.000000,1.000000
- Scale: 1.000000,1.000000,1.000000

► Text Binding

- TransformMatrix: {1.000000,0.000000,0.000000,0.000000}, {0.000000,0.000000,0.000000}
- Translation: 0.000000,0.000000,0.000000

New

▲ Style (TextBox Default)

► Background: SolidColorBrush

► BorderBrush: SolidColorBrush

BorderThickness: 2,2,2,2

► ContextFlyout: TextCommandBarFlyout

FontFamily: Segoe UI

FontSize: 14

► Foreground: SolidColorBrush

Padding: 10,3,6,6

ScrollViewer.HorizontalScrollBarVi...: Hidden

ScrollViewer.HorizontalScrollMode: Auto

ScrollViewer.IsDeferredScrollingEn...: False

ScrollViewer.VerticalScrollBarVisibi...: Hidden

ScrollViewer.VerticalScrollMode: Auto

► SelectionFlyout: TextCommandBarFlyout

► SelectionHighlightColor: SolidColorBrush

Solution Explorer Live Property Explorer

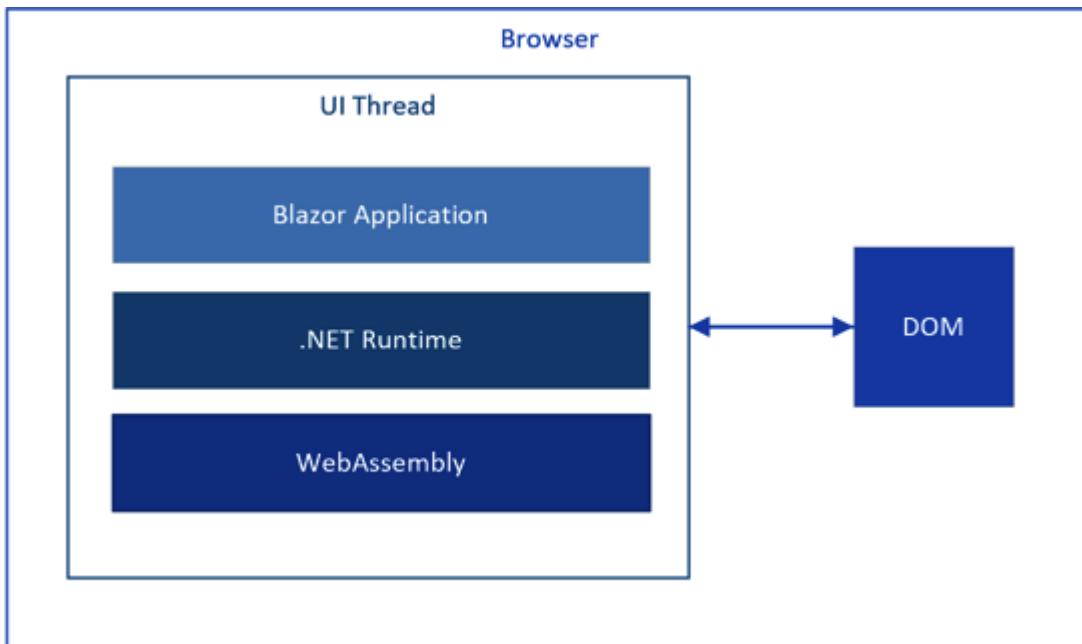
▲ Text	Binding
Converter	0
ConverterLanguage	0
ConverterParameter	0
ElementName	0
EvaluatedValue	0
FallbackValue	0
IsBindingValid	False
Mode	TwoWay
Path	SomeText
RelativeSource	0
Source	0
TargetNullValue	0
UpdateSourceTrigger	Default

▲ Background	SolidColorBrush
▲ ApplicationPageBackgroundThemeBrush	SolidColorBrush
Color	White
Opacity	1
▷ RelativeTransform	MatrixTransform
▷ Transform	MatrixTransform

Chapter 12: Hosting an ASP.NET Core Blazor Application in WinUI

Blazor Hosting Models

	Blazor Server	Blazor WebAssembly
Pros	Smaller initial download Full .NET Core API available on server Application code stays on server More robust debugging support Better performance on resource-limited devices	No .NET dependency for server hosting Serverless deployments Workload distributed to clients; higher scalability Leverages client capabilities Offline execution as a Progressive Web Application (PWA)
Cons	Clients cannot execute offline Higher latency Clients rely on server connections; Less scalability .NET Core server hosting required No serverless	Limited by browser capabilities Wasm support required (No IE) Runtime included in initial download; Slower first load .NET runtime limited on Wasm compared to full .NET Core Debugging tools less mature



```
PowerShell 7.0.3
Copyright (c) Microsoft Corporation. All rights reserved.

https://aka.ms/powershell
Type 'help' to get help.

PS C:\Users\alvinashcraft> |
```

```
Telemetry
-----
The .NET tools collect usage data in order to help us improve your experience. The data is anonymous. It is collected by
Microsoft and shared with the community. You can opt-out of telemetry by setting the DOTNET_CLI_TELEMETRY_OPTOUT environment variable to '1' or 'true' using your favorite shell.

Read more about .NET CLI Tools telemetry: https://aka.ms/dotnet-cli-telemetry

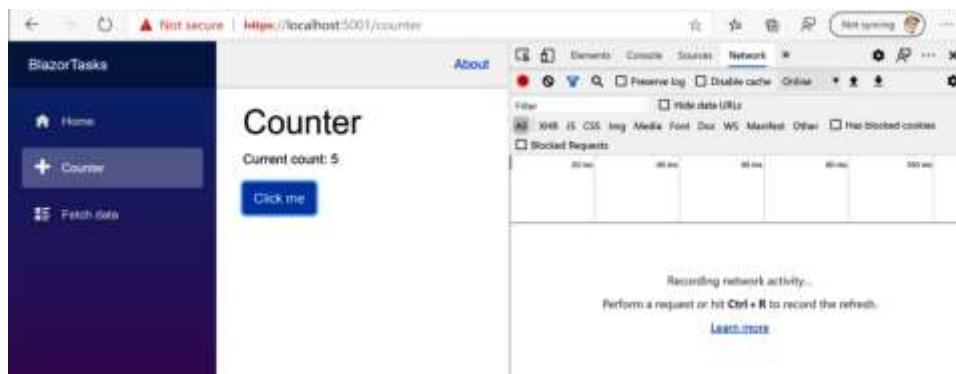
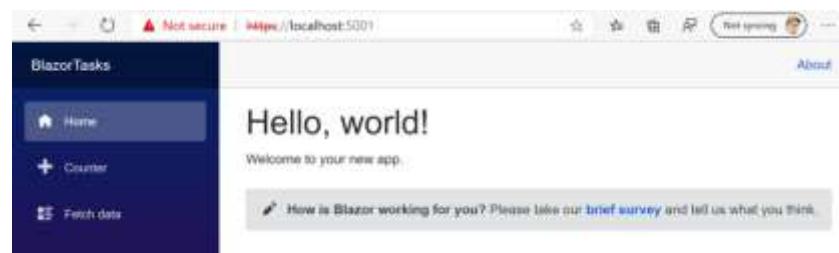
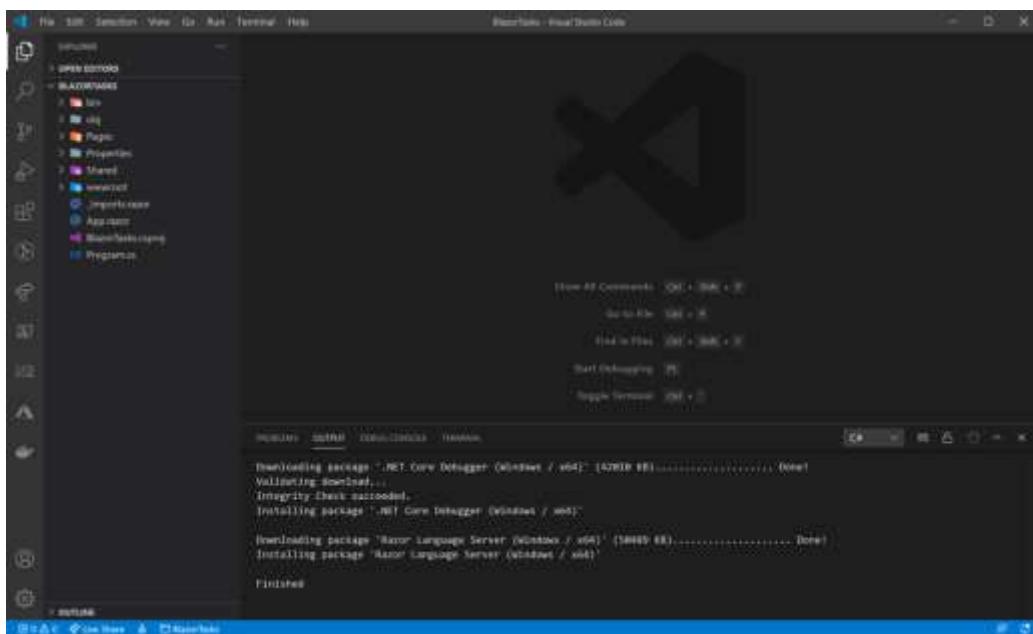
-----
Installed an ASP.NET Core HTTPS development certificate.
To trust the certificate run 'dotnet dev-certs https --trust' (Windows and macOS only).
Learn about HTTPS: https://aka.ms/dotnet-https

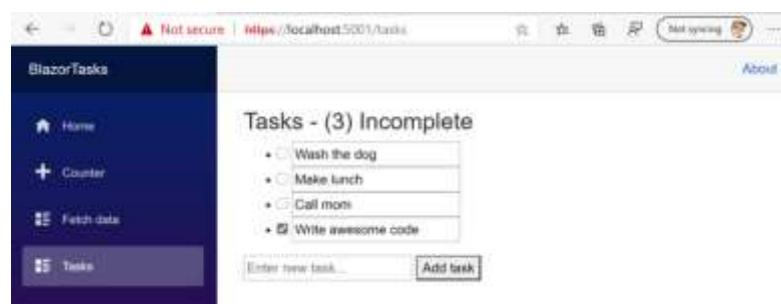
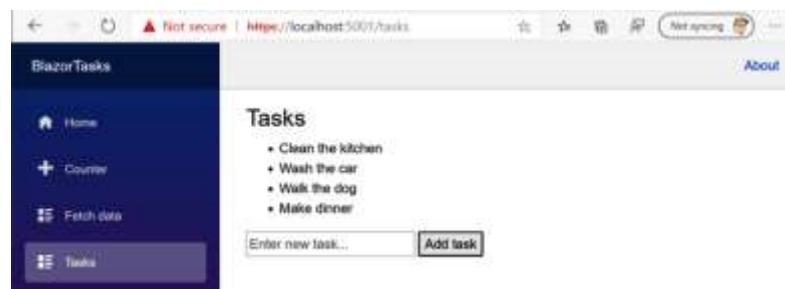
-----
Write your first app: https://aka.ms/dotnet-hello-world
Find out what's new: https://aka.ms/dotnet-whats-new
Explore documentation: https://aka.ms/dotnet-docs
Report issues and find source on GitHub: https://github.com/dotnet/core
Use 'dotnet --help' to see available commands or visit: https://aka.ms/dotnet-cli

-----
Getting ready...
The template "Blazor WebAssembly App" was created successfully.

Processing post-creation actions...
Running 'dotnet restore' on C:\Users\alvinashcraft\source\repos\BlazorTasks\BlazorTasks.csproj...
  Determining projects to restore...
    Restored C:\Users\alvinashcraft\source\repos\BlazorTasks\BlazorTasks.csproj (in 3.86 sec).
Restore succeeded.

PS C:\Users\alvinashcraft\source\repos> |
```





Create a new repository

X

Name

Description

Local path

Choose...

Initialize this repository with a README

Git ignore



License



Create repository

Cancel

Add local repository

X

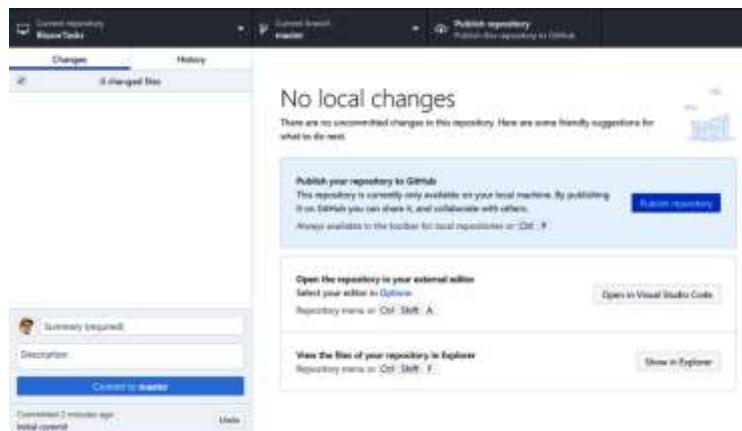
Local path

Choose...

⚠ This directory does not appear to be a Git repository.
Would you like to [create a repository](#) here instead?

Add repository

Cancel



A screenshot of the GitHub web interface for the repository 'alivashcraft / BlazorTasks'. The page includes navigation links like 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. On the left, there's a sidebar with 'Code', 'Issues', 'PULL requests', 'Actions', 'Projects', 'Milestones', 'Security', 'Insights', and 'Settings'. The main content area shows a list of commits under the 'master' branch. One commit is highlighted: 'alivashcraft initial commit' made 8 minutes ago. To the right, there are sections for 'About' (described as a Blazor WebAssembly site to create and manage tasks), 'Releases' (with a link to 'Create a new release'), 'Packages' (with a note 'No packages published'), and 'Languages' (HTML 57.9%, JS 32.0%, CSS 5.1%).

Home > New >

Static Web App (preview)

Microsoft

Static Web App (preview) Microsoft Save for later Create

Overview Plans

App Service Static Web Apps is a streamlined, highly efficient solution to take your static web app from source code to global high availability.

Static Web Apps serve pre-rendered files from a global footprint with no web servers required. Static Web Apps development is simple and versatile, designed with React, Angular, Vue, and more in mind. You can even include integrated serverless APIs from Azure Functions.

Home > New > Static Web App (preview) >

Create Static Web App (Preview)

Basics Build Tags Review + create

App Service Static Web Apps is a streamlined, highly efficient solution to take your static app from source code to global high availability. Pre-rendered files are served from a global footprint with no web servers required. [Learn more](#)

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ▼

Resource Group * ▼
[Create new](#)

Static Web App details

Name * ✓

Region * ▼

SKU * Free

Source Control Details

GitHub account [Sign in with GitHub](#)

Source Control Details

GitHub account

alvinashcraft

 If you can't find an organization or repository, you might need to enable additional permissions on GitHub. X

Organization *

alvinashcraft

Repository *

BlazorTasks

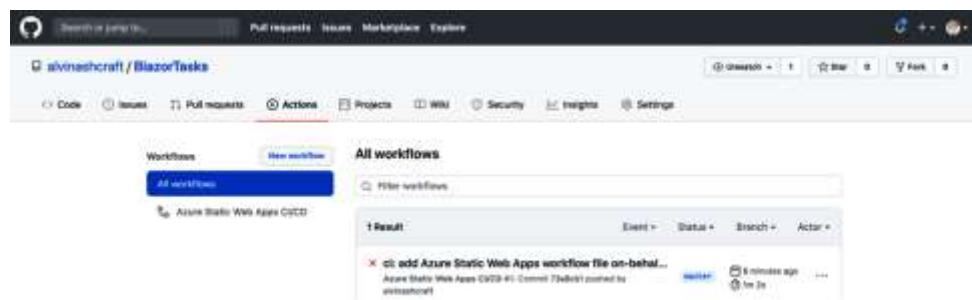
Branch *

master

[Review + create](#)

< Previous

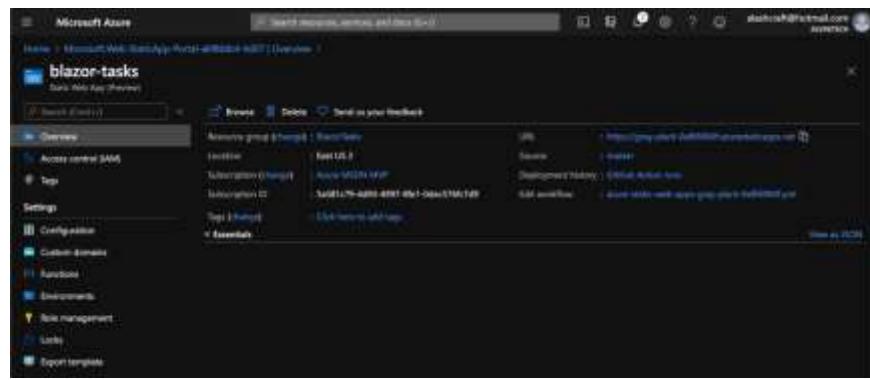
[Next : Build >](#)



The screenshot shows the GitHub Actions workflow page for the repository 'BlazorTasks'. The top navigation bar includes links for Pull requests, Issues, Marketplace, and Explorer. The repository path 'alvinashcraft / BlazorTasks' is visible. The main area displays the 'All workflows' tab, which is currently selected. A search bar at the top of the list allows filtering by name. One workflow run is listed under the heading '1 Result':

Event	Status	Branch	Actor
ci: add Azure Static Web Apps workflow file on-behal...	Success	main	alvinashcraft

Details for the successful run show the commit message 'ci: add Azure Static Web Apps workflow file on-behal...' and the timestamp '6 minutes ago'. The run was triggered by the 'main' branch and performed by the user 'alvinashcraft'.



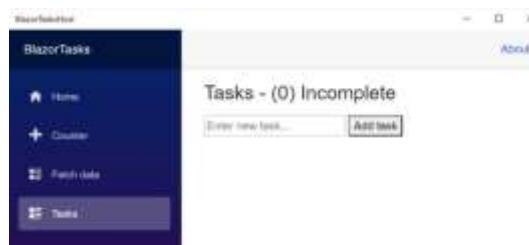
BlazorTasks

- Home
- Counter
- Fetch data
- Tasks

Tasks - (1) Incomplete

<input type="checkbox"/> Make dinner
<input checked="" type="checkbox"/> Write awesome code
<input checked="" type="checkbox"/> Deploy my website

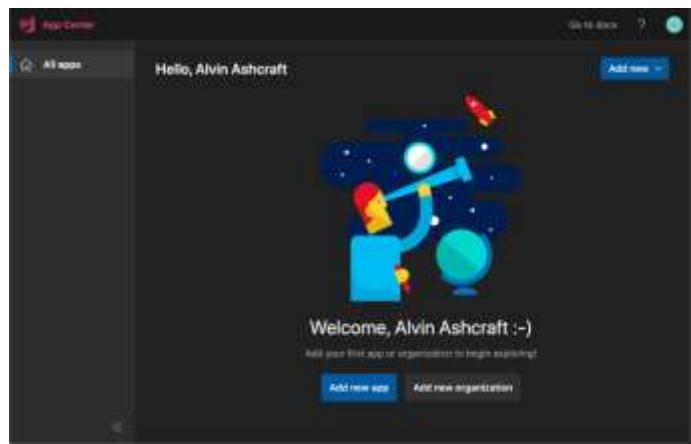
Enter new task... Add task



Chapter 13: Building, Releasing, and Monitoring Applications with Visual Studio App Center

The screenshot shows the Visual Studio App Center homepage. At the top, there's a navigation bar with links for Microsoft, Visual Studio, Visual Studio App Center, FAQ, Blog, Pricing, and a prominent 'Get started for free' button. To the right are links for All Microsoft, Search, and Sign in. Below the header is a large blue banner featuring the Visual Studio logo and the text 'Visual Studio App Center'. It describes the service as 'Integrated developer services for building, testing, releasing, and monitoring mobile and desktop apps'. There's a 'Get started for free' button again, followed by icons for Swift, Obj-C, Java, C#, and .NET. To the right is a cartoon illustration of a person working on a laptop with a smartphone and a keyboard nearby. Below the banner, there are logos for Quora, Highrise, ring, freshdirect, FOX, and goodfood. On the far right, there's a 'Feedback' button. A central call-to-action reads 'Ship higher-quality apps faster and with more confidence'.

This screenshot shows the landing page for the Visual Studio App Center. It features a large dark blue background image with a 3D rendering of a futuristic, glowing blue tower surrounded by floating digital cubes. Overlaid on the left is the text 'App Center is mission control for apps.' and 'Continuously build, test, release, and monitor apps for every platform.' In the bottom left corner is the 'App Center' logo. On the right side, there's a 'Create your free account' section with a 'Log in with one of these services to get started.' message. It includes four login options: GitHub (with its logo), Personal, Company or School (with a Microsoft logo), Facebook (with its logo), and Google (with its logo). Below these options is a link 'Already have an account? Sign in'. At the very bottom, there's small fine print about terms of use and privacy, along with a copyright notice for © 2018 Microsoft.



Profile

 **Alvin Ashcraft**
alvinashcraft-winui

User interface Theme: Auto

Billing Free plan

Build 1 concurrent build, 4 build hours/month No builds so far

Test 30 day trial available Not started yet

Organizations

Developer accounts

No Apple accounts
No Apple certificates
No GitLab accounts

My devices No devices registered

User API tokens No tokens

Email notifications Enabled

Azure No subscriptions

Add new app



App name:

MyMediaCollection

Icon:



Release Type:

Beta

Owner:



Alvin Ashcraft

OS:

- iOS
- Android
- Windows
- macOS
- tvOS
- Custom

Platform:

- UWP
- WPF
- WinForms
- Unity

Add new app

App details

 **MyMediaCollection**
by Alvin Ashcraft

OS	Platform	Release Type
Windows	UWP	Beta

People 2 collaborators

Data management 90 days

Services None

Webhooks None

Export None

Email notifications

New version distributed and adding new devices to a release failed

App API tokens No tokens

Git Changes

Initialize, back up, and share your repository.

 Create Git Repository...

Get code from an online repository like GitHub or Azure DevOps.

 Clone Repository...

Use the **Git menu** to access your existing local repositories.
To learn more about how to use Git in Visual Studio
[read our docs](#).

Create a Git repository

Push to a new remote

 GitHub  GitHub Enterprise

Other

 Existing remote  Local only

Initialize a local Git repository

Local path: C:\Users\alvinashcraft\source\repos\MyMediaCollection

Create a new GitHub repository

Owner: alvinashcraft

Repository Name: MyMediaCollection

Description: My Media Collection

Private:

Push your code to GitHub

<https://github.com/alvinashcraft/MyMediaCollection>



Authorize App Center



App Center by VSAppCenter

wants to access your alvinashcraft account



Repository webhooks and services

Admin access



Repositories

Public and private



Personal user data

Email addresses (read-only)



Organization access

Cancel

Authorize VSAppCenter

Authorizing will redirect to

<https://appcenter.ms>

Build configuration
master

Build app

Project: MyMediaCollection.sln

Configuration: Debug

Platforms: ARM, x86, x64

Build scripts: None
Learn more about [custom build scripts](#)

Build frequency: Build this branch on every push
 Manually choose when to run builds

Automatically increment version number Off
Uses the continuous App Center build ID.

Environment variables
Specify custom [environment variables](#) to use during the build process.

Sign builds Off

Save **Save & Build**

Build 4
Automatic build DURATION 13 min 43 sec LAUNCH TESTED N/A SIGNED Yes

Distribute **Download**

New release



1 Upload 2 Notes 3 Destinations 4 Review

Upload a build

Release:

Upload .appx, .appxbundle, .appxupload, .msix, .msixbundle, .msixupload, .zip or .msi file

Can't find the build archive? [View its possible locations.](#)

New release



1 Branch 2 Build 3 Notes 4 Destinations 5 Review

Choose a branch

Only configured branches with builds are shown here.

master



Remove unit test project from release x86...

Alvin Ashcraft committed Aug 29, 2020

[Upload a build manually](#)

Next >

New release

X

1 Branch 2 Build 3 Notes 4 Destinations 5 Review

Distributing release



Build 4:
master branch

- Mandatory update ⓘ
- Do not notify testers

Releasing to 1 tester



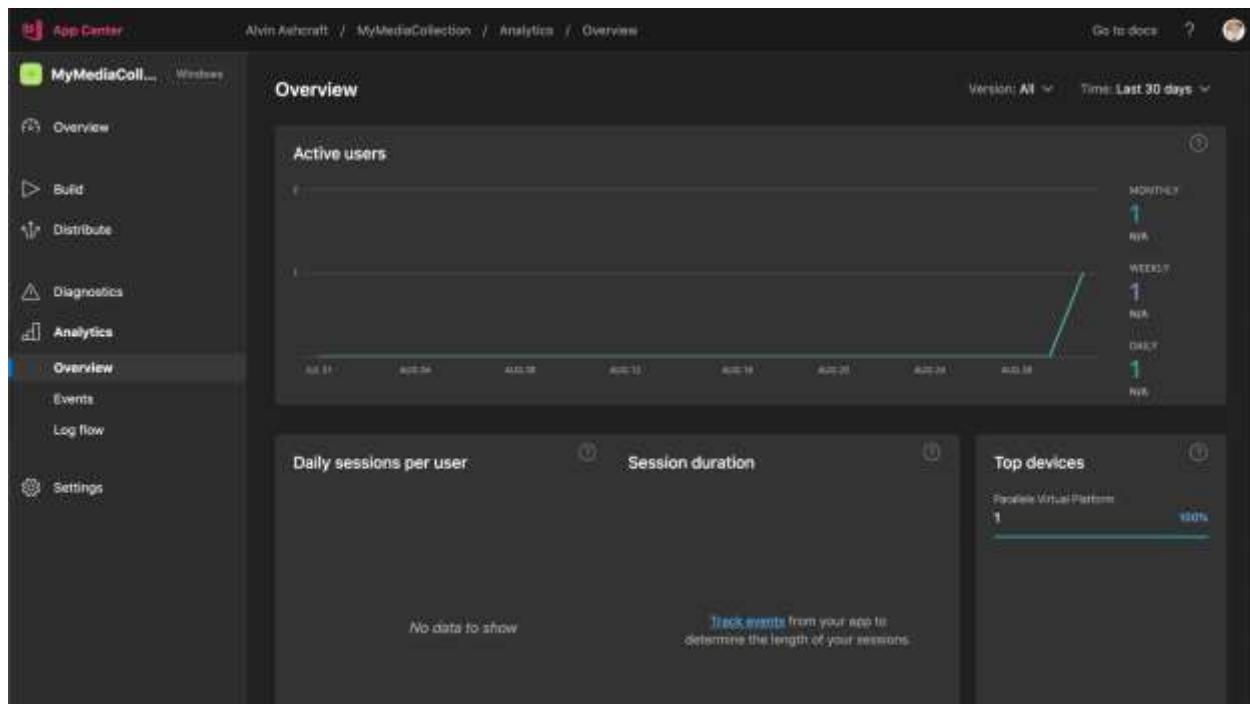
Collaborators
Distribution group

1 tester

◀ Previous

Distribute

Releases							New release
Release history							
Release	Version	Destinations	Date	Unique	Total		
1	1.0.0	Collaborators	Just now	0 downloads	0 downloads		



Log flow

ID	Description	Time
327c7256	STARTSERVICE	15:17:55
327c7256	EVENT - delete item clicked - {"Mediatype": "Video", "ItemName": "Shark Hunt 3"}.	15:18:21
327c7256	STARTSERVICE	15:17:33
327c7256	EVENT - Item selected - {"Mediatype": "Book", "ItemName": "Doctor Cheese"}	15:17:40
327c7256	EVENT - Item selected - {"Mediatype": "Book", "ItemName": "Doctor Cheese"}	15:17:40

Events

Version: All Time: Last 30 days

Search:

Events

Name	Count	Trend	Users	User usage	Per user
Item selected	54	+14	1	+1	54
Delete item clicked	8	+4	1	+1	8

Issues

All Crashes Errors Unsymbolicated

All new unsymbolicated crashes will now show up in this view and be included in the total count. You can still manage unsymbolicated crashes in the [Unsymbolicated tab](#). [Learn more](#) [Dismiss](#)

Crashes 4 total **Errors** 0 total

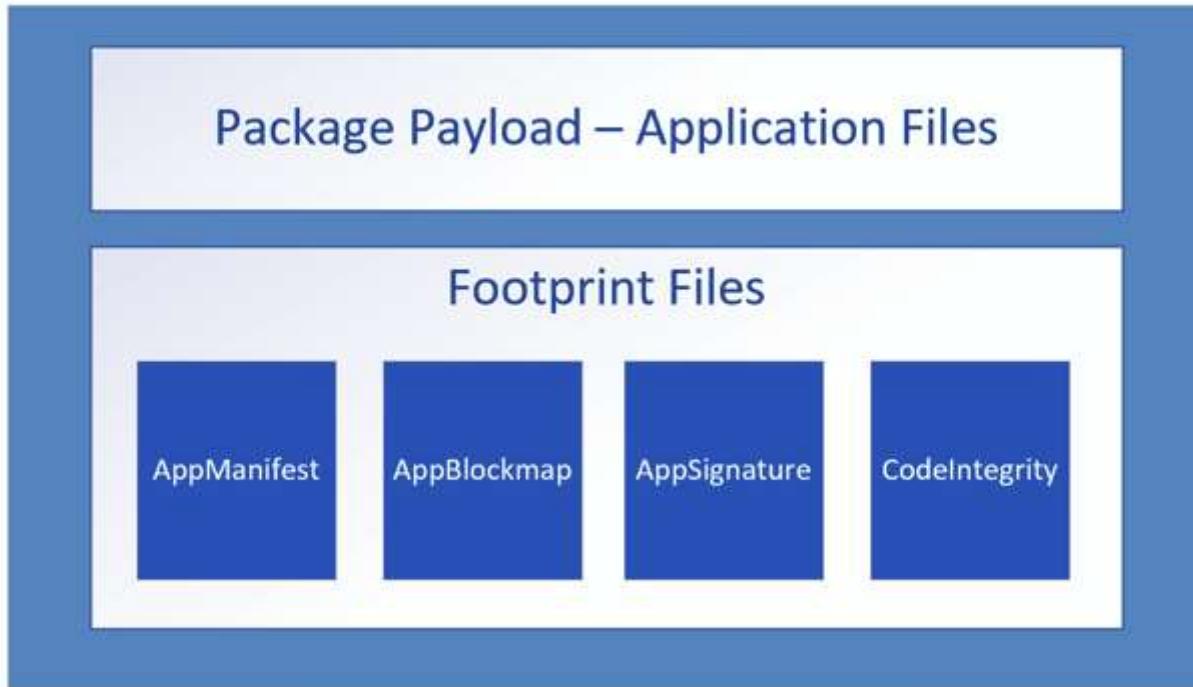
May 11 May 12 May 13

Groups

Title	Count	Users	Version	Status	Last report
MainViewModelList_SelectedMediaItem (MediaItem value) Microsoft.AppCenter.Crashes.TestCrashException: Test crash exception generated by SDK	2	1	1.0.0 (1.0.0...)	Open	21 minutes ago

Chapter 14: Packaging and Deploying WinUI Applications

MSIX Package



Application Visual Assets Capabilities Declarations Content URIs Packaging

Use this page to set the properties that identify and describe your package when it is deployed.

Package name:

Package display name:

Version: Major: Minor: Build: [More information](#)

Publisher: [Choose Certificate...](#)

Publisher display name:

Package family name:

Select distribution method

How will you distribute this application?

- Microsoft Store under a new app name
- Sideload [What is sideloading?](#)
- Enable automatic updates

[Previous](#)[Next](#)[Cancel](#)

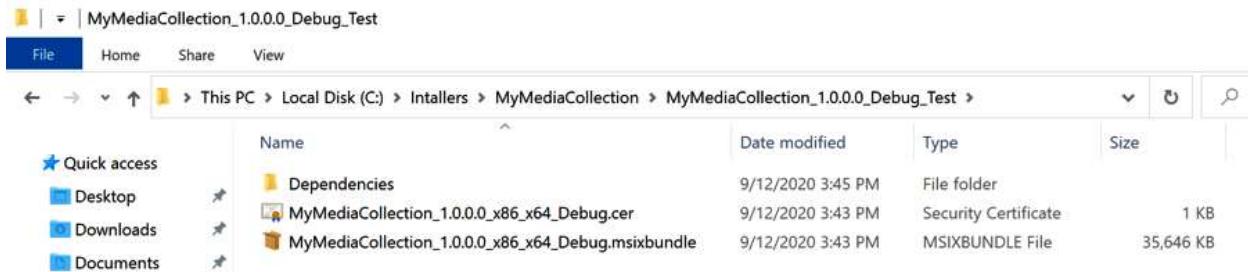
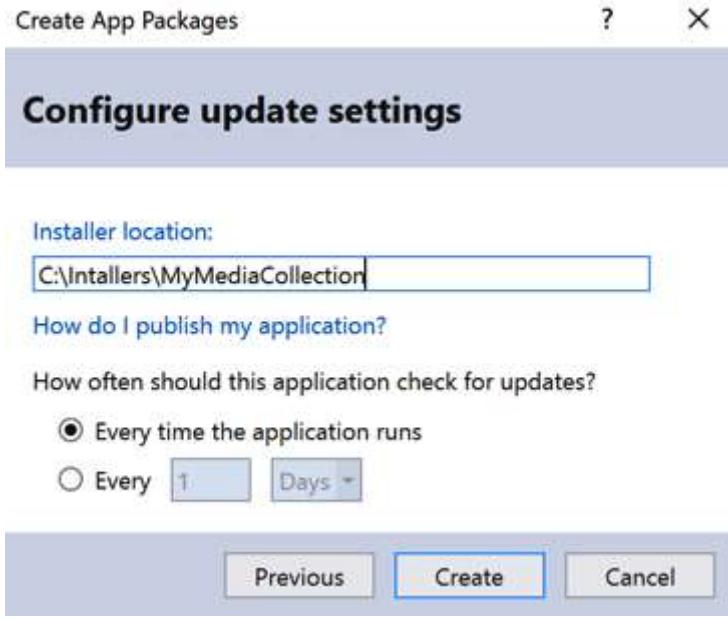
Select signing method

Would you like to sign this app package?

- No, skip package signing.
App packages must be signed before they can be installed. You will have to sign the app packages externally.
[How do I sign an app package?](#)
- Yes, select a certificate:
[Select From Azure Key Vault...](#) [Select From Store...](#) [Select From File...](#) [Create...](#)
 Choose a certificate to sign the app package.

[How do I create a package signing certificate?](#)

[Previous](#)[Next](#)[Cancel](#)



MyMediaCollection is already installed



Publisher: alvinashcraft

Version: 1.0.0.0



Capabilities:

- Access your Internet connection
- Generate code dynamically

This app package is not signed with a trusted certificate. Contact your system administrator or the app developer to obtain a new certificate or app package with trusted certificates. The root

[Reinstall](#)

[Launch](#)

The screenshot shows the Azure DevOps interface for managing continuous deployment. On the left, there's a sidebar with various settings like Security, Events (preview), Deployment (with Quickstart, Deployment slots, and Deployment Center selected), Settings (Configuration, Authentication / Authorization, Application Insights, Identity, Backups, Custom domains, TLS/SSL settings, Networking, Scale up (App Service plan), Scale out (App Service plan), WebJobs, and Push), and a Search bar at the top.

The main area is titled "Continuous Deployment (CI / CD)". It features three tabs: SOURCE CONTROL, BUILD PROVIDER, and CONFIGURE. Under SOURCE CONTROL, there are four options: Azure Repos (Configure continuous integration with an Azure Repo, part of Azure DevOps Services (formerly known as VSTS)), GitHub (Configure continuous integration with a GitHub repo), Bitbucket (Configure continuous integration with a Bitbucket repo), and Local Git (Deploy from a local Git repo). All four options show a "Not Authorized" status.

Below this, under "Manual Deployment (push / sync)", there are four options: OneDrive (Sync content from a OneDrive cloud folder), Dropbox (Sync content from a Dropbox cloud folder), External (Deploy from a public Git or Mercurial repo. This option requires manually triggering your deployments), and FTP (Use an FTP connection to access and copy app files). All four manual deployment options also show a "Not Authorized" status.

```
PS C:\Users\alvinashcraft> winget search windowsterminal
Name           Id          Version
-----
Windows Terminal Preview Microsoft.WindowsTerminalPreview 1.4.2652.0
Windows Terminal      Microsoft.WindowsTerminal       1.3.2651.0
PS C:\Users\alvinashcraft> |
```

```
PS C:\Users\alvinashcraft> winget show Microsoft.WindowsTerminal
Found Windows Terminal [Microsoft.WindowsTerminal]
Version: 1.3.2651.0
Publisher: Microsoft
Author: Microsoft
AppMoniker: Terminal
Description: The new Windows Terminal and the original Windows console host, all in the same place!
Homepage: https://github.com/microsoft/terminal
License: MIT
License Url: https://github.com/microsoft/terminal/blob/master/LICENSE
Installer:
  Type: Msix
  Download Url: https://github.com/microsoft/terminal/releases/download/v1.3.2651.0/Microsoft.WindowsTerminal_1.3.2651.0
  _8wekyb3d8bbwe.msixbundle
  SHA256: c91777b03e1e212ce098646bb685421185b259fe10cb37b2e093c2673d55a37
PS C:\Users\alvinashcraft>
```

Select an app name



Existing app names:

 Include app names that already have packages | Refresh

App Name	Package Identity in the Microsoft Store
Gu-Ha-Haa	None
My Media Collection	None
Newworks Mobile	None

Reserve a new app name:

 Reserve[Previous](#)[Next](#)[Cancel](#)

Select and configure packages

Output location:

C:\Users\alvinashcraft\source\repos\ProjectTracker2020\ProjectTracker2020\AppPackag

Version:

1 . 0 . 0 . 0 Automatically increment[How do I use package version numbering?](#)

Generate app bundle:

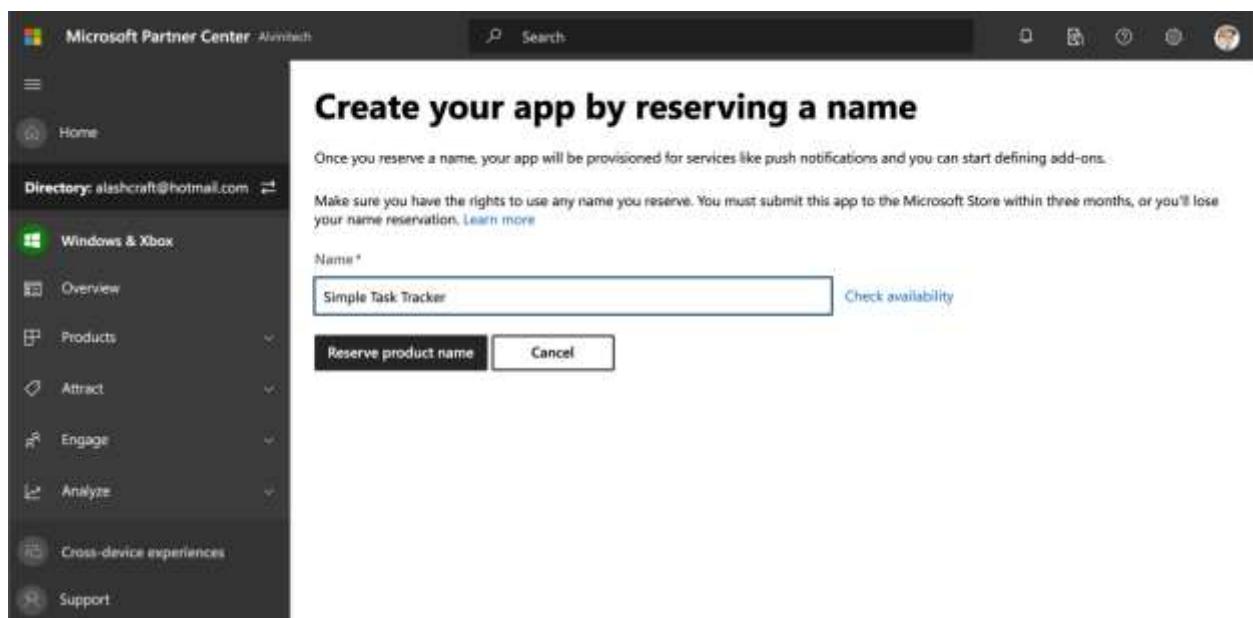
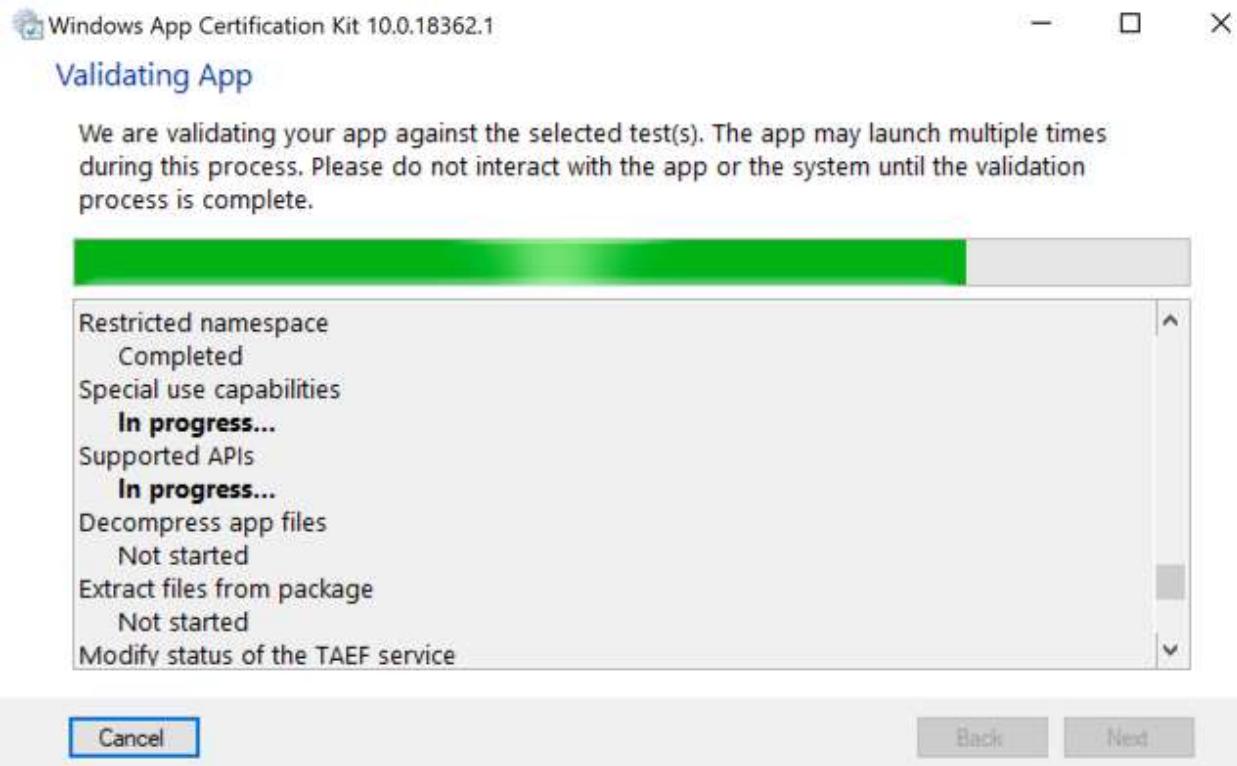
Always [What is an app bundle?](#)

Select the packages to create and the solution configuration mappings:

Architecture	Solution Configuration
<input type="checkbox"/> Neutral	None
<input checked="" type="checkbox"/> x86	Release (x86) <input type="button" value="▼"/>
<input checked="" type="checkbox"/> x64	Release (x64) <input type="button" value="▼"/>
<input checked="" type="checkbox"/> ARM	Release (ARM) <input type="button" value="▼"/>
<input type="checkbox"/> ARM64	Release (ARM64) <input type="button" value="▼"/>

 Select all architectures for your app to run on the most devices possible. [Which devices support each architecture?](#)

 Include public symbol files, if any, to enable crash analysis for the app. [How do I use debugging symbols?](#) Generate artifacts to validate the app with the Windows App Certification Kit. [More info about app package validation](#)



Microsoft Partner Center Windows

Simple Task Tracker Application

Application overview

Add-ons

Analytics

Product management

Services

Submissions

Welcome! Through a submission you can set price and availability details, describe your product for customers, and choose other properties and options. Once everything is ready to ship, you can submit your product for certification and publishing to the Microsoft Store. [Learn more](#)

Start your submission

Add-ons

Create a new add-on

Product ID

Product type

Status

Last modified 11:11

Home

Directory: eliascafa@hotmail.com

Windows & Xbox

Overview

Products

Simple Task Tracker

- Morning Dew 2 Go
- Pushing Fans
- Go-Ha-Has
- Newworks Mobile

View all products

Attrib

Image

Analyzer

Cross-device experiences

Search

Delete

This screenshot shows the Microsoft Partner Center application overview for 'Simple Task Tracker'. The left sidebar lists various categories like Home, Windows & Xbox, Overview, Products, and specific app entries. The main panel displays an 'Application overview' section with tabs for Submissions, Add-ons, Analytics, Product management, and Services. It includes a welcome message, a 'Start your submission' button, and a 'Create a new add-on' link. Below these are sections for Product ID, Product type, Status, and Last modified time.

Microsoft Partner Center Windows

Simple Task Tracker Application

Properties

Category and subcategory*

Pick the category (and subcategory, if applicable) that best describes your product. [Learn more](#)

Pick a category

None

Support info

Does this product access, collect, or transmit personal information (data that could be used to identify a person)?

Yes: A valid privacy policy URL is required for this submission. You are responsible for ensuring your app complies with privacy laws and regulations. [Learn more](#)

No: Please review the [App Developer Agreement](#) to determine if your submission requires a privacy policy URL. You are responsible for ensuring your product complies with privacy laws and regulations. [Learn more](#)

Privacy policy URL: * Must be a valid URL

Website: * Must be a valid URL

Support contact info: * Must be a valid URL or email address

Display mode

This experience is designed to run in an immersive (not a 2D) view on the following: PC HoloLens

Search

This screenshot shows the Microsoft Partner Center Properties page for 'Simple Task Tracker'. It includes sections for Category and subcategory, Support info (with privacy policy requirements), and Display mode settings. The sidebar on the left mirrors the structure of the Application overview page, listing categories like Home, Windows & Xbox, Overview, Products, and specific app entries. The main panel contains fields for picking a category, support information, and display mode configurations.

Microsoft Partner Center

Simple Task Track Application

Application overview Submissions Add-ons Analytics Product management Services

Additional Store listing languages

Remove all

<input type="checkbox"/> English	<input type="checkbox"/> English (Afghanistan)	<input type="checkbox"/> English (Aland Islands)
<input type="checkbox"/> English (Albania)	<input type="checkbox"/> English (Algeria)	<input type="checkbox"/> English (American Samoa)
<input type="checkbox"/> English (Andorra)	<input type="checkbox"/> English (Angola)	<input type="checkbox"/> English (Anguilla)
<input type="checkbox"/> English (Antarctica)	<input type="checkbox"/> English (Antigua and Barbuda)	<input type="checkbox"/> English (Armenia)
<input type="checkbox"/> English (Aruba)	<input type="checkbox"/> English (Australia and New Zealand)	<input type="checkbox"/> English (Australia)
<input type="checkbox"/> English (Azerbaijan)	<input type="checkbox"/> English (Bahamas)	<input type="checkbox"/> English (Bangladesh)
<input type="checkbox"/> English (Barbados)	<input type="checkbox"/> English (Belarus)	<input type="checkbox"/> English (Belize)
<input type="checkbox"/> English (Benin)	<input type="checkbox"/> English (Bermuda)	<input type="checkbox"/> English (Bhutan)
<input type="checkbox"/> English (Bolivia)	<input type="checkbox"/> English (Bonaire, Saint Eustatius and Saba)	<input type="checkbox"/> English (Bosnia and Herzegovina)
<input type="checkbox"/> English (Botswana)	<input type="checkbox"/> English (Bouvet Island)	<input type="checkbox"/> English (British Indian Ocean Territory)
<input type="checkbox"/> English (British Virgin Islands)	<input type="checkbox"/> English (Brunei)	<input type="checkbox"/> English (Bulgaria)
<input type="checkbox"/> English (Burkina Faso)	<input type="checkbox"/> English (Burundi)	<input type="checkbox"/> English (Cambodia)

Select signing method

Would you like to sign this app package?

- No, skip
- Yes, select
- Create a self-signed test certificate

Create a Self-Signed Test Certificate

Self-signed certificates are intended for testing and may prevent your app from installing on other machines. We recommend using a trusted certificate when publishing your app.

Publisher Common Name

alvinashcraft

Enter password for new file ProjectTracker_TemporaryKey.pfx

Confirm your password

OK

Cancel

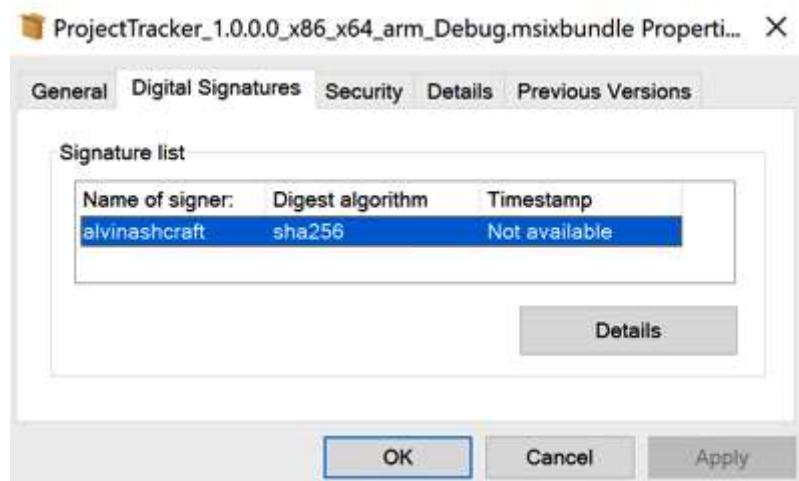
How do I create a package signing certificate?

Previous

Next

Cancel

Name	Date modified	Type	Size
Add-AppDevPackage.resources	10/17/2020 1:22 PM	File folder	
Dependencies	10/17/2020 1:22 PM	File folder	
TelemetryDependencies	10/17/2020 1:22 PM	File folder	
Add-AppDevPackage.ps1	9/19/2020 9:31 AM	Windows PowerShell ...	36 KB
Install.ps1	9/19/2020 9:31 AM	Windows PowerShell ...	14 KB
ProjectTracker_1.0.0.0_ARM_Debug.appxsym	10/17/2020 1:22 PM	APPXSYM File	6 KB
ProjectTracker_1.0.0.0_x64_Debug.appxsym	10/17/2020 1:22 PM	APPXSYM File	6 KB
ProjectTracker_1.0.0.0_x86_Debug.appxsym	10/17/2020 1:22 PM	APPXSYM File	6 KB
ProjectTracker_1.0.0.0_x86_x64_arm_Debug.cer	10/17/2020 1:22 PM	Security Certificate	1 KB
ProjectTracker_1.0.0.0_x86_x64_arm_Debug.msixbundle	10/17/2020 1:22 PM	MSIXBUNDLE File	5,753 KB





Certificate Import Wizard

Certificate Store

Certificate stores are system areas where certificates are kept.

Windows can automatically select a certificate store, or you can specify a location for the certificate.

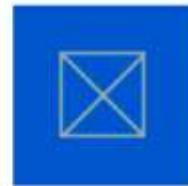
- Automatically select the certificate store based on the type of certificate
 Place all certificates in the following store

Certificate store:

Install ProjectTracker2020?



Publisher: alvinashcraft
Version: 1.0.0.0



Capabilities:

- Access your Internet connection

Launch when ready