[C# WPF Tutorial #6 - Custom User Controls](https://www.youtube.com/watch?v=aB9Tgw2JZZI&list=PLih2KERbY1HHOOJ2C6FOrVXIwg4AZ-hk1&index=6)

This creates a reusable MenuBar by first building the MenuBar in the main xaml window and then moving the code into a separate file called View\UserControls\MenuBar.xaml.

A screenshot of a computer

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MainWindow.xaml

<Window x:Class="\_06\_WPF\_Tutorial.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial"

xmlns:userControls="clr-namespace:\_06\_WPF\_Tutorial.View.UserControls"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="70" />

<RowDefinition/>

<RowDefinition Height="30" />

</Grid.RowDefinitions>

<userControls:MenuBar />

</Grid>

</Window>

View\UserControls\MenuBar.xaml

<UserControl x:Class="\_06\_WPF\_Tutorial.View.UserControls.MenuBar"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial.View.UserControls"

mc:Ignorable="d"

d:Height="70" d:DesignWidth="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="30" />

<RowDefinition Height="40" />

</Grid.RowDefinitions>

<Menu>

<MenuItem Header="File" FontSize="16">

<MenuItem Header="Exit" />

</MenuItem>

<MenuItem Header="Edit" FontSize="16" />

</Menu>

<Grid Grid.Row="1">

<Grid.ColumnDefinitions>

<ColumnDefinition Width="auto" />

<ColumnDefinition Width="auto" />

</Grid.ColumnDefinitions>

<Button Width="50" Margin="5" />

<TextBox Grid.Column="1" Width="150" Margin="5" />

</Grid>

</Grid>

</UserControl>

Process:

# Start new WPF solution in Visual Studio.

A black screen with white text

Description automatically generated

A black rectangular object with a black background

Description automatically generated

# Name it:

A screenshot of a computer

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# Starting point. Build the GUI to look like this:

A screenshot of a computer

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# Add the following code to the .xaml file to create the GUI. [OLD WAY]

Build the MenuBar in the main xaml file first.

MainWindow.xaml

<Window x:Class="\_06\_WPF\_Tutorial\_v2.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v2"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="70" />

<RowDefinition/>

<RowDefinition Height="30" />

</Grid.RowDefinitions>

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height = "30"/>

<RowDefinition Height = "40"/>

</Grid.RowDefinitions>

<Menu>

<MenuItem Header="File" FontSize="16">

<MenuItem Header="Quit"/>

</MenuItem>

<MenuItem Header="Edit" FontSize="16"/>

</Menu>

<Grid Grid.Row="1">

<Grid.ColumnDefinitions>

<ColumnDefinition Width="auto" />

<ColumnDefinition Width="auto" />

</Grid.ColumnDefinitions>

<Button Width="50" Margin="5" />

<TextBox Width="150" Grid.Column="1" Margin="5" />

</Grid>

</Grid>

</Grid>

</Window>

# Create the following folder structure:

View\UserControls\ and then add a User Control (WPF) file called MenuBar.xaml

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A screenshot of a computer menu

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# MenuBar.xaml starting code:

MenuBar.xaml

<UserControl x:Class="\_06\_WPF\_Tutorial\_v2.View.UserControls.MenuBar"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v2.View.UserControls"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800">

<Grid>

</Grid>

</UserControl>

# Change DesignHeight to Height=”70”

MenuBar.xaml

<UserControl x:Class="\_06\_WPF\_Tutorial\_v2.View.UserControls.MenuBar"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v2.View.UserControls"

mc:Ignorable="d"

d:Height="70" d:DesignWidth="800">

<Grid>

</Grid>

</UserControl>

# Move GUI code from MainWindow to MenuBar.xaml

MainWindow.xaml

<Window x:Class="\_06\_WPF\_Tutorial\_v2.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v2"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="70" />

<RowDefinition/>

<RowDefinition Height="30" />

</Grid.RowDefinitions>

~~<Grid>~~

~~<Grid.RowDefinitions>~~

~~<RowDefinition Height = "30"/>~~

~~<RowDefinition Height = "40"/>~~

~~</Grid.RowDefinitions>~~

~~<Menu>~~

~~<MenuItem Header="File" FontSize="16">~~

~~<MenuItem Header="Quit"/>~~

~~</MenuItem>~~

~~<MenuItem Header="Edit" FontSize="16"/>~~

~~</Menu>~~

~~<Grid Grid.Row="1">~~

~~<Grid.ColumnDefinitions>~~

~~<ColumnDefinition Width="auto" />~~

~~<ColumnDefinition Width="auto" />~~

~~</Grid.ColumnDefinitions>~~

~~<Button Width="50" Margin="5" />~~

~~<TextBox Width="150" Grid.Column="1" Margin="5" />~~

~~</Grid>~~

~~</Grid>~~

</Grid>

</Window>

MenuBar.xaml

<UserControl x:Class="\_06\_WPF\_Tutorial\_v2.View.UserControls.MenuBar"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v2.View.UserControls"

mc:Ignorable="d"

d:Height="70" d:DesignWidth="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height = "30"/>

<RowDefinition Height = "40"/>

</Grid.RowDefinitions>

<Menu>

<MenuItem Header="File" FontSize="16">

<MenuItem Header="Quit"/>

</MenuItem>

<MenuItem Header="Edit" FontSize="16"/>

</Menu>

<Grid Grid.Row="1">

<Grid.ColumnDefinitions>

<ColumnDefinition Width="auto" />

<ColumnDefinition Width="auto" />

</Grid.ColumnDefinitions>

<Button Width="50" Margin="5" />

<TextBox Width="150" Grid.Column="1" Margin="5" />

</Grid>

</Grid>

</UserControl>

# Call MenuBar from MainWindow

Add the namespace for the MenuBar and identify it userControls.

Add the call to the MenuBar.

<Window x:Class="\_06\_WPF\_Tutorial\_v2.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v2"

xmlns:userControls="clr-namespace:\_06\_WPF\_Tutorial\_v2.View.UserControls"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="70" />

<RowDefinition/>

<RowDefinition Height="30" />

</Grid.RowDefinitions>

<userControls:MenuBar/>

</Grid>

</Window>

Quicker way to do this #1

* Create basic window Grid.
* Create folder structure for the Custom User Control (reusable MenuBar).
* Create MenuBar.
* Add MenuBar namespace to MainWindow
* Add call to MenuBar.

# Starting code MainWindow.xaml

MainWindow.xaml

<Window x:Class="\_06\_WPF\_Tutorial\_v3.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v3"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

</Grid>

</Window>

# Create basic grid in MainWindow

MainWindow.xaml

<Window x:Class="\_06\_WPF\_Tutorial\_v3.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v3"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="70" />

<RowDefinition/>

</Grid.RowDefinitions>

</Grid>

</Window>

# Create folder structure and add MenuBar.xaml

View\UserControls\MenuBar.xaml

A screenshot of a computer menu

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# Starting code MenuBar.xaml

MenuBar.xaml

<UserControl x:Class="\_06\_WPF\_Tutorial\_v3.View.UserControls.MenuBar"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v3.View.UserControls"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800">

<Grid>

</Grid>

</UserControl>

# Create MenuBar.xaml

MenuBar.xaml

<UserControl x:Class="\_06\_WPF\_Tutorial\_v3.View.UserControls.MenuBar"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v3.View.UserControls"

mc:Ignorable="d"

d:Height="70" d:DesignWidth="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height = "30"/>

<RowDefinition Height = "40"/>

</Grid.RowDefinitions>

<Menu>

<MenuItem Header="File" FontSize="16">

<MenuItem Header="Quit"/>

</MenuItem>

<MenuItem Header="Edit" FontSize="16"/>

</Menu>

<Grid Grid.Row="1">

<Grid.ColumnDefinitions>

<ColumnDefinition Width="auto" />

<ColumnDefinition Width="auto" />

</Grid.ColumnDefinitions>

<Button Width="50" Margin="5" />

<TextBox Width="150" Grid.Column="1" Margin="5" />

</Grid>

</Grid>

</UserControl>

# Call MenuBar from MainWindow

Add the namespace for the MenuBar and identify it userControls.

Add the call to the MenuBar.

<Window x:Class="\_06\_WPF\_Tutorial\_v3.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v3"

xmlns:userControls="clr-namespace:\_06\_WPF\_Tutorial\_v3.View.UserControls"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="70" />

<RowDefinition/>

</Grid.RowDefinitions>

<userControls:MenuBar/>

</Grid>

</Window>

Better MenuBar #1

* Create basic window Grid.
* Create folder structure for the Custom User Control (reusable MenuBar).
* Create MenuBar.
* Add MenuBar namespace to MainWindow
* Add call to MenuBar.

# Starting code MainWindow.xaml

MainWindow.xaml

<Window x:Class="\_06\_WPF\_Tutorial\_v4.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v4"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

</Grid>

</Window>

# Create basic grid in MainWindow

MainWindow.xaml

<Window x:Class="\_06\_WPF\_Tutorial\_v4.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v4"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="70"/>

<RowDefinition/>

</Grid.RowDefinitions>

</Grid>

</Window>

# Create folder structure and add MenuBar.xaml

View\UserControls\MenuBar.xaml

A screenshot of a computer menu

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# Starting code MenuBar.xaml

MenuBar.xaml

<UserControl x:Class="\_06\_WPF\_Tutorial\_v4.View.UserControls.MenuBar"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v4.View.UserControls"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800">

<Grid>

</Grid>

</UserControl>

# Create MenuBar.xaml with SubMenu and Separators

Note this is from Visual Studio but just a very basic version. (No icons or shortcuts)

MenuBar.xaml

<UserControl x:Class="\_06\_WPF\_Tutorial\_v4.View.UserControls.MenuBar"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v4.View.UserControls"

mc:Ignorable="d"

d:Height="50" d:DesignWidth="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="30"/>

</Grid.RowDefinitions>

<Menu>

<!--FILE-->

<MenuItem Header="File">

<MenuItem Header="New">

<MenuItem Header="Project..."/>

<MenuItem Header="Repository..."/>

<MenuItem Header="File..."/>

<MenuItem Header="Project From Existing Code..."/>

<MenuItem Header="From Cookiecutter..."/>

<MenuItem Header="Import">

<MenuItem Header="Import from XCode"/>

</MenuItem>

</MenuItem>

<MenuItem Header="Open">

<MenuItem Header="Project/Solution..."/>

<MenuItem Header="Folder..."/>

<MenuItem Header="Web Site..."/>

<MenuItem Header="CMake..."/>

<MenuItem Header="Import STM32CubeIDE project..."/>

<Separator/>

<MenuItem Header="File..."/>

</MenuItem>

<MenuItem Header="Clone Repository..."/>

<MenuItem Header="Start Window"/>

<Separator/>

<MenuItem Header="Add">

<MenuItem Header="New Project..."/>

<Separator/>

<MenuItem Header="Existing Project..."/>

<MenuItem Header="Existing Web Site..."/>

</MenuItem>

<Separator/>

<MenuItem Header="Close"/>

<MenuItem Header="Close Solution"/>

<Separator/>

<MenuItem Header="Start Live Share Session"/>

<MenuItem Header="Join Live Share Session"/>

<Separator/>

<MenuItem Header="Save"/>

<MenuItem Header="Save As..."/>

<MenuItem Header="Save All"/>

<Separator/>

<MenuItem Header="Page Setup..."/>

<MenuItem Header="Printing..."/>

<Separator/>

<MenuItem Header="Account Setting..."/>

<Separator/>

<MenuItem Header="Recent Files"/>

<MenuItem Header="Recent Projects and Solutions"/>

<Separator/>

<MenuItem Header="Exit"/>

</MenuItem>

<!--EDIT-->

<MenuItem Header="Edit">

<MenuItem Header="Go To">

<MenuItem Header="Go To Line..."/>

<MenuItem Header="Go To All..."/>

<MenuItem Header="Go To File..."/>

<MenuItem Header="Go To Recent File..."/>

<MenuItem Header="Go To Type..."/>

<MenuItem Header="Go To Member..."/>

<MenuItem Header="Go To Symbol..."/>

<Separator/>

<MenuItem Header="Go To Next Issue in File..."/>

<MenuItem Header="Go To Previous Issue in File..."/>

<MenuItem Header="Go To Last Edit Location..."/>

</MenuItem>

<MenuItem Header="Find and Replace">

<MenuItem Header="Quick Find"/>

<MenuItem Header="Quick Replace"/>

<MenuItem Header="Find in Files"/>

<MenuItem Header="Replace in Files"/>

</MenuItem>

<Separator/>

<MenuItem Header="Undo"/>

<MenuItem Header="Redo"/>

<MenuItem Header="Undo Last Global Action"/>

<MenuItem Header="Redo Last Global Action"/>

<Separator/>

<MenuItem Header="Cut"/>

<MenuItem Header="Copy"/>

<MenuItem Header="Paste"/>

<MenuItem Header="Show Clipboard History"/>

<MenuItem Header="Duplicate"/>

<MenuItem Header="Delete"/>

<Separator/>

<MenuItem Header="Select All"/>

<Separator/>

<MenuItem Header="Insert File As Text..."/>

<MenuItem Header="Advanced">

<MenuItem Header="Toggle Spell Checker"/>

<MenuItem Header="Format Document"/>

<MenuItem Header="Format Selection"/>

<MenuItem Header="Tabify Selected Lines"/>

<MenuItem Header="Untabify Selected Lines"/>

<MenuItem Header="Make Uppercase"/>

<MenuItem Header="Make Lowercase"/>

<MenuItem Header="Move Selected Lines Up"/>

<MenuItem Header="Move Selected Lines Down"/>

<MenuItem Header="Delete Horizontal White Space"/>

<MenuItem Header="Expand Selection to Containing Block"/>

<MenuItem Header="Expand Selection"/>

<MenuItem Header="View White Space"/>

<MenuItem Header="Word Wrap"/>

<MenuItem Header="Incremental Search"/>

<MenuItem Header="Sort Lines"/>

<MenuItem Header="Join Lines"/>

<MenuItem Header="Next Subword"/>

<MenuItem Header="Previous Subword"/>

<MenuItem Header="Expand Selection to Line"/>

<MenuItem Header="Comment Selection"/>

<MenuItem Header="Uncomment Selection"/>

<MenuItem Header="Increase Line Indent"/>

<MenuItem Header="Decrease Line Indent"/>

<MenuItem Header="Set End of Line Sequence">

<MenuItem Header="CRLF"/>

<MenuItem Header="LF"/>

<MenuItem Header="CR"/>

</MenuItem>

<MenuItem Header="Set Indentation">

<MenuItem Header="Spaces"/>

<MenuItem Header="Tabs"/>

</MenuItem>

</MenuItem>

<MenuItem Header="Bookmarks">

<MenuItem Header="Toggle Bookmark"/>

<MenuItem Header="Enable All Bookmarks"/>

<MenuItem Header="Enable Bookmark"/>

<MenuItem Header="Previous Bookmark"/>

<MenuItem Header="Next Bookmark"/>

<MenuItem Header="Clear Bookmark"/>

<Separator/>

<MenuItem Header="Previous Bookmark in Folder"/>

<MenuItem Header="Next Bookmark in Folder"/>

<Separator/>

<MenuItem Header="Previous Bookmark in document"/>

<MenuItem Header="Next Bookmark in Document"/>

<MenuItem Header="Clear All Bookmarks in Document"/>

<Separator/>

<MenuItem Header="Add Task List Shortcut"/>

</MenuItem>

<MenuItem Header="Outlining">

<MenuItem Header="Toggle Outlining Expansion"/>

<MenuItem Header="Toggle All Outlining"/>

<MenuItem Header="Stop Outlining"/>

<MenuItem Header="Stop hiding Current"/>

</MenuItem>

<MenuItem Header="IntelliSense">

<MenuItem Header="Sort Namespaces"/>

<MenuItem Header="Remove and Sort Namespaces"/>

<Separator/>

<MenuItem Header="List Members"/>

<MenuItem Header="Parameter Info"/>

<MenuItem Header="Quick Info"/>

<MenuItem Header="Complete Word"/>

<MenuItem Header="Switch between automatic and tab-only IntelliSense completion"/>

<Separator/>

<MenuItem Header="Surround With..."/>

<MenuItem Header="Insert Snippet..."/>

</MenuItem>

<MenuItem Header="Multiple Carets">

<MenuItem Header="Insert Next Matching Caret"/>

<MenuItem Header="Insert Carets as All Matching"/>

<MenuItem Header="Remove Last Caret"/>

<MenuItem Header="Move Last Caret Down"/>

<MenuItem Header="Rotate Primary Caret Down"/>

<MenuItem Header="Rotate Primary Caret Up"/>

</MenuItem>

<MenuItem Header="Refactor">

<MenuItem Header="Rename..."/>

</MenuItem>

<MenuItem Header="IntelliCode suggestions">

<MenuItem Header="Preview"/>

</MenuItem>

</MenuItem>

<!--VIEWT-->

<MenuItem Header="View">

<MenuItem Header="Code"/>

<MenuItem Header="Designer"/>

<MenuItem Header="Open"/>

<MenuItem Header="Open With..."/>

<MenuItem Header="Design in Blend...."/>

<Separator/>

<MenuItem Header="Solution Explorer"/>

<MenuItem Header="Git Changes"/>

<MenuItem Header="Git Repository"/>

<MenuItem Header="Team Explorer"/>

<MenuItem Header="Server Explorer"/>

<MenuItem Header="Data Lake Analytics Explorer"/>

<MenuItem Header="SQL Server Object Explorer"/>

<MenuItem Header="Test Explorer"/>

<MenuItem Header="Cookiecutter Explorer"/>

<Separator/>

<MenuItem Header="Bookmark Window"/>

<MenuItem Header="Call Hierarchy"/>

<MenuItem Header="Class View"/>

<MenuItem Header="Code Definition Window"/>

<MenuItem Header="Object Browser"/>

<Separator/>

<MenuItem Header="Error List"/>

<MenuItem Header="IncrediBuild Monitor"/>

<MenuItem Header="Output"/>

<MenuItem Header="Task List"/>

<MenuItem Header="Toolbox"/>

<MenuItem Header="Notifications"/>

<MenuItem Header="Remote File Explorer"/>

<MenuItem Header="Terminal"/>

<MenuItem Header="Other Windows">

<MenuItem Header="Command Window"/>

<MenuItem Header="Data Sources"/>

<Separator/>

<MenuItem Header="Load Test Runs"/>

<Separator/>

<MenuItem Header="Data Tools Operations"/>

<MenuItem Header="Microsoft Azure Activity Log"/>

<MenuItem Header="Shader Syntax Visualizer"/>

<MenuItem Header="Syntax Visualizer"/>

<MenuItem Header="HDInsight Task List Window"/>

<MenuItem Header="HiveServer2 Output Window"/>

<MenuItem Header="Application Insights Search"/>

<MenuItem Header="Live Share"/>

<MenuItem Header="Web Publish Activity"/>

<MenuItem Header="Task Runner Explorer"/>

<MenuItem Header="JSON Outline"/>

<MenuItem Header="Diagnostic Events"/>

<MenuItem Header="Device Log"/>

<MenuItem Header="Containers"/>

<MenuItem Header="Package Manager Console"/>

<MenuItem Header="Stack Trace Explorer"/>

<MenuItem Header="Unreal Engine Log"/>

<MenuItem Header="Browser Link Dashboard"/>

<MenuItem Header="IntelliCode Suggestions"/>

<MenuItem Header="Document Outline"/>

<MenuItem Header="Dev Tunnels"/>

<MenuItem Header="Property Manager"/>

<MenuItem Header="Resource View"/>

<MenuItem Header="Python Environments"/>

<MenuItem Header="Python Interactive Window"/>

<MenuItem Header="F# Interactive"/>

<MenuItem Header="C# Interactive"/>

<Separator/>

<MenuItem Header="Code Metrics Results"/>

<MenuItem Header="Python Performance Explorer"/>

</MenuItem>

<Separator/>

<MenuItem Header="Toolbars">

<MenuItem Header="IncrediBuild"/>

<MenuItem Header="Android"/>

<MenuItem Header="Application Insights"/>

<MenuItem Header="Build"/>

<MenuItem Header="Cloud Deployment"/>

<MenuItem Header="Compare Files"/>

<MenuItem Header="Data Lake"/>

<MenuItem Header="Debug"/>

<MenuItem Header="Debug Location"/>

<MenuItem Header="Dev Tunnels"/>

<MenuItem Header="Dialog Editor"/>

<MenuItem Header="Dsl Designer"/>

<MenuItem Header="Formatting"/>

<MenuItem Header="Graphics"/>

<MenuItem Header="HTML Source Editing"/>

<MenuItem Header="Image Editor"/>

<MenuItem Header="iOS"/>

<MenuItem Header="Layout"/>

<MenuItem Header="Microsoft Office Excel"/>

<MenuItem Header="Microsoft Office Word"/>

<MenuItem Header="Python"/>

<MenuItem Header="Query Designer"/>

<MenuItem Header="Ribbon Editor"/>

<MenuItem Header="Source Control"/>

<MenuItem Header="Source Control - Team Foundation"/>

<MenuItem Header="Standard"/>

<MenuItem Header="Table Designer"/>

<MenuItem Header="Test Adapter for Google Test"/>

<MenuItem Header="Text Editor"/>

<MenuItem Header="View Designer"/>

<MenuItem Header="Web One Click Publishing"/>

<MenuItem Header="Workflow"/>

<MenuItem Header="XML Editor"/>

<Separator/>

<MenuItem Header="Customise..."/>

</MenuItem>

<MenuItem Header="Full Screen"/>

<MenuItem Header="All Windows"/>

<Separator/>

<MenuItem Header="Navigate Backward"/>

<MenuItem Header="Navigate Forward"/>

<MenuItem Header="Next Task"/>

<MenuItem Header="Previous Task"/>

<Separator/>

<MenuItem Header="Properties Window"/>

<MenuItem Header="Property Pages"/>

</MenuItem>

<!--GIT-->

<MenuItem Header="Git">

<MenuItem Header="Clone Repository..."/>

<MenuItem Header="Create Git Repository..."/>

<MenuItem Header="Local Repositories...">

<MenuItem Header="Open Local Repository..."/>

</MenuItem>

<Separator/>

<MenuItem Header="Commit or Stash..."/>

<Separator/>

<MenuItem Header="Settings"/>

</MenuItem>

<!--PROJECT-->

<MenuItem Header="Project">

<MenuItem Header="Add Window (WPF)..."/>

<MenuItem Header="Add Page (WPF)..."/>

<MenuItem Header="Add User Control (WPF)..."/>

<MenuItem Header="Add Resource Dictionary (WPF)..."/>

<MenuItem Header="Add Class..."/>

<MenuItem Header="Add New Data Source..."/>

<Separator/>

<MenuItem Header="Add New Item..."/>

<MenuItem Header="Add Existing Item..."/>

<Separator/>

<MenuItem Header="Edit Project File"/>

<Separator/>

<MenuItem Header="New Folder"/>

<Separator/>

<MenuItem Header="Install WSL For Me"/>

<Separator/>

<MenuItem Header="Exclude From Project"/>

<MenuItem Header="Show All Files"/>

<MenuItem Header="Run Custom Tool"/>

<Separator/>

<MenuItem Header="Add Project Reference..."/>

<MenuItem Header="Add Shared Project Reference..."/>

<MenuItem Header="Add COM Reference..."/>

<Separator/>

<MenuItem Header="Connected Services">

<MenuItem Header="Add">

<MenuItem Header="Azure Storage"/>

<MenuItem Header="Azure Application Insights"/>

<MenuItem Header="Azure SignalIR Service"/>

<MenuItem Header="Azure Key Vault"/>

<MenuItem Header="Azure App Configuration"/>

<MenuItem Header="SQL Server Database"/>

<MenuItem Header="Azure Cache for Redis"/>

<MenuItem Header="Azure Cosmos DB"/>

<MenuItem Header="Microsoft Identity Platform"/>

<MenuItem Header="SQLite Database"/>

<MenuItem Header="PostgreSQL Database"/>

<MenuItem Header="MongoDB Database"/>

<MenuItem Header="RabbitMQ"/>

<MenuItem Header="Microsoft Power Platform"/>

</MenuItem>

<MenuItem Header="Manage Connected Services"/>

<MenuItem Header="Settings"/>

</MenuItem>

<MenuItem Header="Configure Startup Projects..."/>

<MenuItem Header="Set as Startup Project"/>

<MenuItem Header="Export Template..."/>

<MenuItem Header="Manage NuGet Packages..."/>

<Separator/>

<MenuItem Header="Refresh Project Toolbox Items"/>

<Separator/>

<MenuItem Header="Other"/>

</MenuItem>

<!--BUILD-->

<MenuItem Header="Build">

<MenuItem Header="Build Solution"/>

<MenuItem Header="Rebuild Solution"/>

<MenuItem Header="Clean Solution"/>

<MenuItem Header="Run Code Analysis on Solution"/>

<Separator/>

<MenuItem Header="Publish Selection"/>

<Separator/>

<MenuItem Header="Batch Build..."/>

<MenuItem Header="Configuration Manager..."/>

</MenuItem>

<!--DEBUG-->

<MenuItem Header="Debug">

<MenuItem Header="Windows">

<MenuItem Header="Breakpoints"/>

<MenuItem Header="Exception Settings"/>

<MenuItem Header="Output"/>

<MenuItem Header="Show Diagnostic Tools"/>

<MenuItem Header="Python Performance Explorer"/>

<Separator/>

<MenuItem Header="Immediate"/>

<MenuItem Header="Python Debug Interactive"/>

<Separator/>

<MenuItem Header="XAML Binding Failures"/>

<MenuItem Header="Access Checker"/>

<Separator/>

<MenuItem Header="Serial Monitor"/>

</MenuItem>

<MenuItem Header="Graphics">

<MenuItem Header="Start Graphics Debugging"/>

<MenuItem Header="Start Graphics Debugging as Installed App Package..."/>

<Separator/>

<MenuItem Header="DirectX Control Panel"/>

</MenuItem>

<Separator/>

<MenuItem Header="Start Debugging"/>

<MenuItem Header="Start Without Debugging"/>

<MenuItem Header="Attach Unity Debugger"/>

<MenuItem Header="Apply Code Changes"/>

<MenuItem Header="Performance Profiler..."/>

<MenuItem Header="Relaunch Performance Profiler"/>

<MenuItem Header="Launch Python Profiling..."/>

<MenuItem Header="Attach to Process..."/>

<MenuItem Header="Reattach to Process"/>

<MenuItem Header="Other Debug Targets">

<MenuItem Header="Debug Installed App Package..."/>

<MenuItem Header="Trigger Windows Store App Prefetch"/>

<MenuItem Header="Debug Universal Windows App Prelaunch"/>

<Separator/>

<MenuItem Header="Debug Linux Core Dump with Native only..."/>

</MenuItem>

<Separator/>

<MenuItem Header="Step Into"/>

<MenuItem Header="Step Over"/>

<Separator/>

<MenuItem Header="Toggle Breakpoint">

<MenuItem Header="Breakpoint Group..."/>

<MenuItem Header="Function Breakpoint..."/>

</MenuItem>

<MenuItem Header="New Breakpoint"/>

<MenuItem Header="Delete All Breakpoints"/>

<Separator/>

<MenuItem Header="Clear All DataTips"/>

<MenuItem Header="Export DataTips..."/>

<MenuItem Header="Import DataTips..."/>

<Separator/>

<MenuItem Header="Options..."/>

<MenuItem Header="Debug Properties"/>

</MenuItem>

<!--TEST-->

<MenuItem Header="Test"/>

<!--ANALYSE-->

<MenuItem Header="Analyse"/>

<!--TOOLS-->

<MenuItem Header="Tools"/>

<!--EXTENSIONS-->

<MenuItem Header="Extensions"/>

<!--WINDOW-->

<MenuItem Header="Window"/>

<!--HELP-->

<MenuItem Header="Help"/>

</Menu>

</Grid>

</UserControl>

# Call MenuBar from MainWindow

Add the namespace for the MenuBar and identify it userControls.

Add the call to the MenuBar.

<Window x:Class="\_06\_WPF\_Tutorial\_v4.MainWindow"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:\_06\_WPF\_Tutorial\_v4"

xmlns:userControls="clr-namespace:\_06\_WPF\_Tutorial\_v4.View.UserControls"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="70"/>

<RowDefinition/>

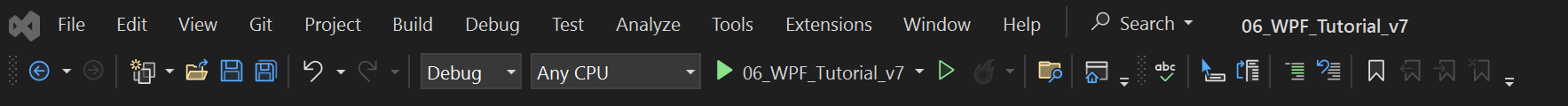
</Grid.RowDefinitions>

<userControls:MenuBar/>

</Grid>

</Window>

# For Reference Only: Visual Studio Menus



A screenshot of a computer menu

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A screenshot of a computer program

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