Layout

Introduction

 We use the layout controls for containing other controls. The layout controls position the other controls and set their size.
 Each layout control function differently.

The Canvas Layout Control

Using the Canvas control we can specify the distances between the contained controls' left, top, right, and bottom edges and those of the Canvas.

The Canvas Layout Control

<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation" xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml" x:Class="gaga.MainWindow" Title="Simple Demo" Width="400" Height="140" FontSize="14">

The Canvas Layout Control



The DockPanel Layout Control

When using the DockPanel layout control, the contained controls are docked to its edges.

The DockPanel Layout Control

<Window1 xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation" xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml" x:Class="gaga.MainWindow" Title="Simple Demo" Width="800" Height="600" FontSize="14">

<DockPanel>
 <Label Background="LightYellow" Content="Simple Label Top"
 DockPanel.Dock="Top"/>
 <Label Background="LightSalmon" Content="Simple Label Left"
 DockPanel.Dock="Left" />
 <Label Background="LightSlateGray" Content="Simple Label Right"
 DockPanel.Dock="Right" />
 <Button DockPanel.Dock="Bottom" Background="LightCoral"
 Content="Simple Button A"/>
 <Button DockPanel.Dock="Bottom" Background="LightCyan"
 Content="Simple Button B"/>
 <Button DockPanel.Dock="Bottom" Background="LightGray"
 Content="Simple Button C"/>
 </DockPanel>

</Window>

The DockPanel Layout Control



This layout controller lays out it child controllers into rows and columns.

<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation" xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml" x:Class="gaga.MainWindow" Width="400" Height="300">

```
<Grid Margin="2" Width="200" Height="200" Background="AntiqueWhite">
    <Grid.ColumnDefinitions>
        <ColumnDefinition Width="40"/>
        <ColumnDefinition Width="40"/>
    </Grid.ColumnDefinitions>
    <Grid.RowDefinitions>
        <RowDefinition Height="40"/>
        <RowDefinition Height="40"/>
        <RowDefinition Height="40"/>
    </Grid.RowDefinitions>
    <Button Grid.Row="0" Grid.Column="0" Content="A"/>
    <Button Grid.Row="0" Grid.Column="1" Content="B"/>
    <Button Grid.Row="1" Grid.Column="0" Content="C"/>
    <Button Grid.Row="1" Grid.Column="1" Content="D"/>
    <Button Grid.Row="2" Grid.Column="0" Content="E"/>
    <Button Grid.Row="2" Grid.Column="1" Content="F"/>
</Grid>
```

</Window>



- The ColumnDefinitions property holds a collection of ColumnDefinition objects that determine the widths of the columns.
- The RowDefinitions property is a collection of RowDefinition objects that determine the heights of the Grid's rows.

- The RowDefinition and the ColumnDefinition objects have properties that determine their sizes. Width for columns. Height for rows.
- We can assign Width and Height either with absolute values or with proportional ones.
- In order to assign absolute values we should use simple values. We can use a unit indicator to indicate that we want to use a unit other than pixels.

The possible unit indicators are px (pixels), in (inches), cm (centimeters) and pt (points).

In order to use a proportional width or height we should assign a number following with an asterisk (*).

<Grid Margin="5">

<Grid.ColumnDefinitions>

<ColumnDefinition Width="2.75 cm"/>

<ColumnDefinition Width="2*"/>

<ColumnDefinition Width="1*"/>

</Grid.ColumnDefinitions>

<Grid.RowDefinitions>

<RowDefinition Height="30 in"/>

<RowDefinition Height="*"/>

</Grid.RowDefinitions>

</Grid>

We can set proportional values that add up either to 1 or to 100. That will set the sizes as percentages of the remaining space.

```
<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
x:Class="gaga.MainWindow" Width="500" Height="500">
```

```
<Grid Margin="2" Width="400" Height="400" Background="AntiqueWhite">
    <Grid.ColumnDefinitions>
        <ColumnDefinition Width="20*"/>
        <ColumnDefinition Width="20*"/>
        <ColumnDefinition Width="20*"/>
        <ColumnDefinition Width="20*"/>
        <ColumnDefinition Width="20*"/>
    </Grid.ColumnDefinitions>
    <Grid.RowDefinitions>
        <RowDefinition Height="20*"/>
        <RowDefinition Height="20*"/>
        <RowDefinition Height="20*"/>
        <RowDefinition Height="20*"/>
        <RowDefinition Height="20*"/>
    </Grid.RowDefinitions>
    <Button Grid.Row="0" Grid.Column="0" Content="A"/>
    <Button Grid.Row="0" Grid.Column="1" Content="B"/>
    <Button Grid.Row="0" Grid.Column="2" Content="C"/>
    <Button Grid.Row="0" Grid.Column="3" Content="D"/>
    <Button Grid.Row="0" Grid.Column="4" Content="E"/>
```

<Button Grid.Row="1" Grid.Column="0" Content="A"/> <Button Grid.Row="1" Grid.Column="1" Content="B"/> <Button Grid.Row="1" Grid.Column="2" Content="C"/> <Button Grid.Row="1" Grid.Column="3" Content="D"/> <Button Grid.Row="1" Grid.Column="4" Content="E"/> <Button Grid.Row="2" Grid.Column="0" Content="A"/> <Button Grid.Row="2" Grid.Column="1" Content="B"/> <Button Grid.Row="2" Grid.Column="2" Content="C"/> <Button Grid.Row="2" Grid.Column="3" Content="D"/> <Button Grid.Row="2" Grid.Column="4" Content="E"/> <Button Grid.Row="3" Grid.Column="0" Content="A"/> <Button Grid.Row="3" Grid.Column="1" Content="B"/> <Button Grid.Row="3" Grid.Column="2" Content="C"/> <Button Grid.Row="3" Grid.Column="3" Content="D"/> <Button Grid.Row="3" Grid.Column="4" Content="E"/> <Button Grid.Row="4" Grid.Column="0" Content="A"/> <Button Grid.Row="4" Grid.Column="1" Content="B"/> <Button Grid.Row="4" Grid.Column="2" Content="C"/> <Button Grid.Row="4" Grid.Column="3" Content="D"/> <Button Grid.Row="4" Grid.Column="4" Content="E"/> </Grid>

</Window>

| A | в | с | D | E | |
|---|---|---|---|---|--|
| A | в | с | D | E | |
| A | в | с | D | E | |
| A | в | с | D | E | |
| A | в | с | D | E | |
| | | | | | |

- Using the RowSpan and the ColumnSpan properties we can have the child covering more than one row or one column.
- Using RowSpan the child will span over two rows. Using ColumnSpan the child will span over two columns.

```
<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
    xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
   x:Class="gaga.MainWindow" Width="500" Height="500">
    <Grid Margin="2" Width="400" Height="400" Background="AntiqueWhite">
        <Grid.ColumnDefinitions>
            <ColumnDefinition Width="20*"/>
            <ColumnDefinition Width="20*"/>
            <ColumnDefinition Width="20*"/>
            <ColumnDefinition Width="20*"/>
            <ColumnDefinition Width="20*"/>
        </Grid.ColumnDefinitions>
        <Grid RowDefinitions>
            <RowDefinition Height="20*"/>
            <RowDefinition Height="20*"/>
            <RowDefinition Height="20*"/>
            <RowDefinition Height="20*"/>
            <RowDefinition Height="20*"/>
        </Grid.RowDefinitions>
        <Button Grid.RowSpan="2" Grid.Row="0" Grid.Column="0" Content="A"/>
        <Button Grid.Row="0" Grid.Column="1" Content="B"/>
        <Button Grid.Row="0" Grid.Column="2" Grid.ColumnSpan="2" Content="C"/>
        <Button Grid.Row="0" Grid.Column="4" Content="E"/>
```

```
<Button Grid.Row="1" Grid.Column="1" Content="B"/>
    <Button Grid.Row="1" Grid.Column="2" Content="C"/>
    <Button Grid.Row="1" Grid.Column="3" Content="D"/>
    <Button Grid.Row="1" Grid.Column="4" Content="E"/>
    <Button Grid.Row="2" Grid.Column="0" Content="A"/>
    <Button Grid.Row="2" Grid.Column="1" Content="B"/>
    <Button Grid.Row="2" Grid.Column="2" Content="C"/>
    <Button Grid.Row="2" Grid.Column="3" Content="D"/>
    <Button Grid.Row="2" Grid.Column="4" Content="E"/>
    <Button Grid.Row="3" Grid.Column="0" Content="A"/>
    <Button Grid.Row="3" Grid.Column="1" Content="B"/>
    <Button Grid.Row="3" Grid.Column="2" Content="C"/>
    <Button Grid.Row="3" Grid.Column="3" Content="D"/>
    <Button Grid.Row="3" Grid.Column="4" Content="E"/>
    <Button Grid.Row="4" Grid.Column="0" Content="A"/>
    <Button Grid.Row="4" Grid.Column="1" Content="B"/>
    <Button Grid.Row="4" Grid.Column="2" Content="C"/>
    <Button Grid.Row="4" Grid.Column="3" Content="D"/>
    <Button Grid.Row="4" Grid.Column="4" Content="E"/>
</Grid>
```

</Window>

| E | С | | в | | |
|-------------|------------------|-------------|---|-------------|--|
| E | D | с | в | A | |
| E | D | с | в | A | |
| E | D | с | в | A | |
| E | D | с | в | A | |
| E E E | D D D D | c c c | B | A A A | |

- This layout control can hold a single child within a scrollable region.
- The HorizontalScrollBarVisibility and the VerticalScrollBarVisibility properties can take the following values: Auto, Visible, Disabled and Hidden. When using the Disabled value the child will be re-sized accordingly.

```
<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        x:Class="gaga.MainWindow" Width="200" Height="200">
    <ScrollViewer HorizontalScrollBarVisibility="Auto"</pre>
                 VerticalScrollBarVisibility="Auto" >
    <Grid Margin="2" Width="400" Height="400" Background="AntiqueWhite">
        <Grid.ColumnDefinitions>
            <ColumnDefinition Width="20*"/>
            <ColumnDefinition Width="20*"/>
            <ColumnDefinition Width="20*"/>
            <ColumnDefinition Width="20*"/>
            <ColumnDefinition Width="20*"/>
        </Grid.ColumnDefinitions>
        <Grid.RowDefinitions>
            <RowDefinition Height="20*"/>
            <RowDefinition Height="20*"/>
            <RowDefinition Height="20*"/>
            <RowDefinition Height="20*"/>
            <RowDefinition Height="20*"/>
        </Grid.RowDefinitions>
        <Button Grid.RowSpan="2" Grid.Row="0" Grid.Column="0" Content="A"/>
        <Button Grid.Row="0" Grid.Column="1" Content="B"/>
```

```
<Button Grid.Row="0" Grid.Column="2" Grid.ColumnSpan="2" Content="C"/>
    <Button Grid.Row="0" Grid.Column="4" Content="E"/>
    <Button Grid.Row="1" Grid.Column="1" Content="B"/>
    <Button Grid.Row="1" Grid.Column="2" Content="C"/>
    <Button Grid.Row="1" Grid.Column="3" Content="D"/>
    <Button Grid.Row="1" Grid.Column="4" Content="E"/>
    <Button Grid.Row="2" Grid.Column="0" Content="A"/>
    <Button Grid.Row="2" Grid.Column="1" Content="B"/>
    <Button Grid.Row="2" Grid.Column="2" Content="C"/>
    <Button Grid.Row="2" Grid.Column="3" Content="D"/>
    <Button Grid.Row="2" Grid.Column="4" Content="E"/>
    <Button Grid.Row="3" Grid.Column="0" Content="A"/>
    <Button Grid.Row="3" Grid.Column="1" Content="B"/>
    <Button Grid.Row="3" Grid.Column="2" Content="C"/>
    <Button Grid.Row="3" Grid.Column="3" Content="D"/>
    <Button Grid.Row="3" Grid.Column="4" Content="E"/>
    <Button Grid.Row="4" Grid.Column="0" Content="A"/>
    <Button Grid.Row="4" Grid.Column="1" Content="B"/>
    <Button Grid.Row="4" Grid.Column="2" Content="C"/>
    <Button Grid.Row="4" Grid.Column="3" Content="D"/>
    <Button Grid.Row="4" Grid.Column="4" Content="E"/>
</Grid>
```

</ScrollViewer>

</Window>



The StackPanel Layout Controller

The StackPanel layout control displays its children in a single row or in a single column. If a child doesn't fit then it will be clipped.

The Orientation property takes one of the following two possible values: Vertical and Horizontal.

The StackPanel Layout Controller

<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
x:Class="gaga.MainWindow" Width="200" Height="200">

```
<StackPanel Orientation="Horizontal">
        <Button Content="First BT"/>
        <Button Content="Second BT"/>
        <Button Content="Third BT"/>
        <Button Content="Fourth BT"/>
        <StackPanel>
```

</Window>

The StackPanel Layout Controller



The TabControl layout control displays a series of tabs the user can select from.

Each TabItem can hold one single child only. That child can be a layout control.

```
<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
x:Class="gaga.MainWindow" Width="600" Height="480" Icon="pixpix.png">
```

```
<TabControl HorizontalAlignment="Left">
```

```
<TabItem>
    <TabItem.Header>
        Butchart Gardens
    </Tabltem.Header>
    <Grid>
        <Image Source="butchart.jpg"/>
    </Grid>
</TabItem>
<TabItem>
    <Tabltem.Header>
        UBC Library
    </TabItem.Header>
    <Grid>
        <Image Source="vancouver.jpg"/>
    </Grid>
</TabItem>
```

```
<Tabltem>

<Tabltem.Header>

Canadian Rockies

</Tabltem.Header>

<Grid>

<Image Source="banf.jpg"/>

</Grid>

</Tabltem>
```

</TabControl>

</Window>





The ToolBar control represents the tool bar area where we can place various tools such as buttons and combo boxes.

The ToolBarTray control is the parent control that can hold one or more ToolBar controls.

The ToolBarTray control rearranges the ToolBar controls it holds.

The Band and the BandIndex are two properties we can use in order to control the exact positioning within the ToolBarTray area.

The Band property holds the numeric value of the band starting with 0 (0,1...). The BandIndex value starting with 0 (0,1...) determines the position of the ToolBar within the band.

<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation" xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml" x:Class="gaga.MainWindow" Width="600" Height="480" Icon="pixpix.png"> <Grid> <ToolBarTray Grid.Row="0" HorizontalAlignment="Stretch"> <ToolBar Band="0" BandIndex="0"> <TextBox BorderBrush="LightCyan" Width="60" ToolBar.OverflowMode="Never"/> <Button ToolBar.OverflowMode="Never"> <Image Source="fly.ico" Height="44" Width="44"/> </Button> <Button ToolBar.OverflowMode="Never"> <Image Source="flea.ico" Height="44" Width="44"/> </Button> </ToolBar> <ToolBar Band="0" BandIndex="1"> <Button ToolBar.OverflowMode="Never"> <Image Source="cockroach.ico" Height="44" Width="44"/> </Button> <Button ToolBar.OverflowMode="Never"> <Image Source="termite.ico" Height="44" Width="44"/> </Button> </ToolBar> </ToolBarTray>

```
<TabControl HorizontalAlignment="Left" Margin="0,55,0,0" Width="471">
        <TabItem>
            <Tabltem.Header>Butchart Gardens</Tabltem.Header>
            <Grid>
                <Image Source="butchart.jpg" Height="373" Margin="0,2,0,0" />
            </Grid>
        </TabItem>
        <TabItem>
            <Tabltem.Header>UBC Library</Tabltem.Header>
            <Grid>
                <Image Source="vancouver.jpg"/>
            </Grid>
        </TabItem>
        <TabItem>
            <Tabltem.Header>Canadian Rockies</Tabltem.Header>
            <Grid>
                <Image Source="banf.jpg"/>
            </Grid>
        </TabItem>
    </TabControl>
    </Grid>
</Window>
```



- The UniformGrid layout control displays its child controls within a grid, that its rows and columns have the same size.
- We can use the Rows and Columns properties for setting the number of rows and columns we want.
- The UniformGrid control divides its area in order to form the required number of rows and columns.

The UniformGrid control places its child controls within the cells. Each child is placed within one cell. If the child is too big it will be clipped.

<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation" xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml" x:Class="gaga.MainWindow" Width="600" Height="480" Icon="pixpix.png"> <UniformGrid Columns="4" Rows="3"> <Button Content="A" Margin="4"/> <Button Content="B" Margin="4"/> <Button Content="C" Margin="4"/> <Button Content="D" Margin="4"/> <Button Content="E" Margin="4"/> <Button Content="F" Margin="4"/> <Button Content="G" Margin="4"/> <Button Content="H" Margin="4"/> <Button Content="I" Margin="4"/> <Button Content="J" Margin="4"/> <Button Content="K" Margin="4"/> <Button Content="L" Margin="4"/> <Button Content="M" Margin="4"/> <Button Content="N" Margin="4"/> <Button Content="0" Margin="4"/> <Button Content="P" Margin="4"/> <Button Content="0" Margin="4"/> <Button Content="R" Margin="4"/> <Button Content="S" Margin="4"/> <Button Content="T" Margin="4"/> </UniformGrid> </Window>



The ViewBox layout control can contain one child only stretching it accordingly.

The contained child can be a another container as well.

The Stretch property determines the way the child will be stretched. Its possible values are None, Fill, Uniform and UniformToFill.

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| <pre>xmlndow xmlns= http://schemas.microsoft.com/winfx/2006/xaml/presentation xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"</pre> | | ¥ |
| x:Class="gaga.MainWindow" Width="600" Height="480" Icon="pixpix.png | 3"> | |
| StackPanel> | | _ |
| <label content="The WP7 Platform Seems Good"></label> <label content="The Android Platform Seems Excellent"></label> | | = |
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The WindowsFormsHost Control

The WindowsFormsHost layout control can hold windows forms controls.

In order to use this control make sure you add a reference to the WindowsFormsIntegration library.

The WindowsFormsHost Control

<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
 xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
 xmlns:wfi="clrnamespace:System.Windows.Forms;assembly=System.Windows.Forms"</pre>

x:Class="gaga.MainWindow" Width="600" Height="480" Icon="pixpix.png">

<StackPanel Margin="5,5,5,5">

</StackPanel>

</Window>

The WindowsFormsHost Control



The WrapPanel Layout Control

The WrapPanel layout control arranges controls in a row.

Unlike StackPanel it starts a new row when the current one runs out of room.

The WrapPanel Layout Control

```
<Button Content="Israel" Margin="15" Width="150" Height="45"/>
<Button Content="Canada" Margin="15" Width="150" Height="45"/>
<Button Content="France" Margin="15" Width="150" Height="45"/>
<Button Content="India" Margin="15" Width="150" Height="45"/>
<Button Content="Mexico" Margin="15" Width="150" Height="45"/>
```

</WrapPanel> </Window>

The WrapPanel Layout Control

| Israel | Canada | France |
|--------|--------|--------|
| India | Mexico | |
| | | |
| | | |

When using the Expander layout control we get a header and an icon the user can click in order to toggle the display of a single specific child.

<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation" xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml" FontSize="14" x:Class="gaga.MainWindow" Title="Simple Demo" Width="800" Height="600">

<StackPanel>

```
HorizontalAlignment="Left" VerticalAlignment="Top"
<Expander
            Header="Personal Information" Margin="2" IsExpanded="True">
    <Grid Margin="3" Width="400">
        <Grid.ColumnDefinitions>
            <ColumnDefinition Width="140"/>
            <ColumnDefinition Width="*"/>
        </Grid.ColumnDefinitions>
        <Grid.RowDefinitions>
            <RowDefinition Height="30"/>
            <RowDefinition Height="30"/>
            <RowDefinition Height="30"/>
        </Grid.RowDefinitions>
        <Label Grid.Row="0" Grid.Column="0" Content="First Name:"/>
        <TextBox Grid.Row="0" Grid.Column="1" Height="20" />
        <Label Grid.Row="1" Grid.Column="0" Content="Last Name:"/>
        <TextBox Grid.Row="1" Grid.Column="1" Height="20" />
        <Label Grid.Row="2" Grid.Column="0" Content="Email Address:"/>
        <TextBox Grid.Row="2" Grid.Column="1" Height="20" />
    </Grid>
</Expander>
```

```
Margin="2" HorizontalAlignment="Left" VerticalAlignment="Top"
    <Expander
                Header="Home Address">
        <Grid Margin="3" Width="400">
            <Grid.ColumnDefinitions>
                <ColumnDefinition Width="140"/>
                <ColumnDefinition Width="*"/>
            </Grid.ColumnDefinitions>
            <Grid.RowDefinitions>
                <RowDefinition Height="30"/>
                <RowDefinition Height="30"/>
                <RowDefinition Height="30"/>
            </Grid.RowDefinitions>
            <Label Grid.Row="0" Grid.Column="0" Content="Street:"/>
            <TextBox Grid.Row="0" Grid.Column="1" Height="20"/>
            <Label Grid.Row="1" Grid.Column="0" Content="City:"/>
            <TextBox Grid.Row="1" Grid.Column="1" Height="20"/>
            <Label Grid.Row="2" Grid.Column="0" Content="Country:"/>
            <TextBox Grid.Row="2" Grid.Column="1" Height="20"/>
        </Grid>
    </Expander>
</StackPanel>
```

</Window>

| Simple Demo | | |
|----------------------------------|---|--|
| 🕑 Personal Informatio | n | |
| Home Address | | |
| Street: | | |
| City: | | |
| Country: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

The StatusBar Control

The StatusBar control is displayed on the bottom of the window. We can use that control for displaying status information.

The StatusBar Control

```
<Window xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        x:Class="gaga.MainWindow" Width="200" Height="200" Icon="pixpix.png">
    <StatusBar HorizontalAlignment="Stretch"</pre>
                VerticalAlignment="Bottom"
                FontWeight="Bold">
        <StatusBar.Background>
            <LinearGradientBrush StartPoint="0.5,1" EndPoint="0.5,0">
                <GradientStop Color="Black" Offset="0"/>
                <GradientStop Color="Red" Offset="1"/>
            </LinearGradientBrush>
        </StatusBar.Background>
        <StatusBarItem>
            <Label Foreground="White" Name="status label"
                Content="This is The Status Bar"/>
        </statusBarItem>
    </StatusBar>
```

</Window>

The StatusBar Control

