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Introduction

- Using the layout model, we can organize our content in a set of different layout containers. Each container implements its own layout logic.
- There are many containers we can choose from. We can even develop our own.

Introduction

The Silverlight window can hold one single element. In order to fit in more than one element we will need to place them within the single main one.

The Panel Class

- The Silverlight layout containers are panels derived from the System.Windows.Controls.Panel abstract class.
- Two important properties this class adds are Background and Children. The later is the collection of elements the container holds.



The Background property holds a Brush object. This way we can have sophisticated backgrounds. There is no need to limit ourselves with a solid simple background.

Background



Border

- The Border property describes the border. This class is responsible for adding a background or a border for the nested component it refers.
- The properties this type defines include: Background, BorderBrush, BorderThickness, CornerRadius and Padding.

Border



The StackPanel Layout

This layout stacks its children in a single raw or a single column.

The StackPanel Layout



The WrapPanel & DockPanel Layout

- In order to use these two layouts we first need to add a reference to the assembly file that includes their definition.
 Its name is System.Windows.Controls.Toolkit.dll.
- This assembly is available as part of the Silverlight toolkit. You can download it at <u>http://silverlight.codeplex.com</u>.
- Once we install the Silverlight tool kit we should map to the namespace so it will be available.



The WrapPanel & DockPanel Layout

The WrapPanel lays out the controls in the available space, one line (or column) at a time. The default orientation is horizontal. The controls are arranged left to right and the on the subsequent rows.

The DockPanel stretches the controls against the edge we set.

The Grid Layout

- This is the default layout. When creating a new XAML document the visual studio automatically adds the Grid
 tags as the first-level container, nested within the
 UserControl root element.
- The Grid layout places its component into invisible grid of rows and columns.

The Grid Layout

Although each cell can include more than one element as multiple elements will overlap with each other, we will usually place one element only.

The Grid Layout



The Canvas Layout

Using Canvas we can specify the exact position of each control.

The Canvas Layout



Scrolling

Placing the layout container within a ScrollViewer we will get scrollbars for scrolling over the layout.

Scrolling



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Scaling

Placing the layout container within a ViewBox will allow the user to scale the view he gets.

Scaling



Full Screen Mode

Silverlight applications have the capability to enter into a fullscreen mode. They can do so in a response for a user event only.

```
private void Bt_Click(object sender, RoutedEventArgs e)
{
    Application.Current.Host.Content.IsFullScreen = true;
}
```

Full Screen Mode

While in full screen mode the keyboard access is limited and it is possible to respond the following keys only: Tab, Enter, Home, End, Page Up, Page Down, spacebar and the arrow keys.