Tutorial - Where is the mouse? (Windows Store App)

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Contents

About This Document	:	1
Tutorial – Where is the mouse?		7

About This Document

在本次的練習中,將會練習到如何在 Canvas 中註冊點擊及移動的事件。

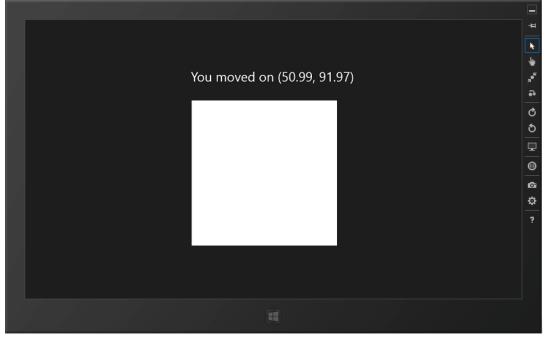


Figure 1 Interaction Application

Tutorial - Where is the mouse?

Step 1 Setup Environment

打開 Visual Studio 2015後,點選 File > Visual C# > Windows > Universal > Blank App(Universal Windows),若發現沒有此項可選擇,請使用下方說明來取得。

因為 Windows10 以上版本的 Visual Studio 2015 預設是沒有內建 Windows Store App 的專案工具,所以必須先至以下網站下載需要工具,請先關閉 Visual Studio 2015,下載完成後點選安裝 Figure. 2 所選取的項目,並等候安裝更新。

http://go.microsoft.com/fwlink/?LinkID=619615

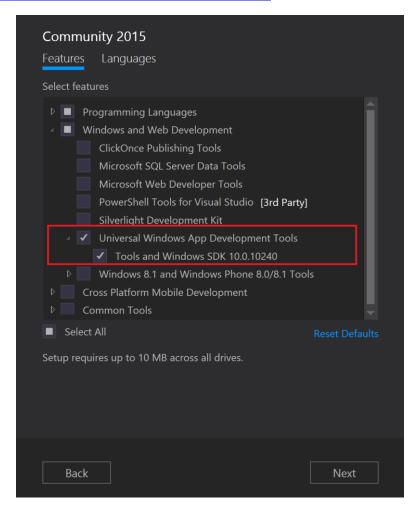


Figure 2 Run setup and choose items which you need (whether Community Vision or Enterprise Vision)

打開 Visual Studio 2015 後,點選 File > Visual C# > Windows > Universal > Blank App(Universal Windows),然後輸入專案名稱,即可成功建立一個空白的 Windows Store App 專案。

Step 2 Register and Implement event

在 MainPage.xaml 中加入一個 Canvas 和 TextBlock,接著開啟 MainPage.xaml.cs 並在加入以下程式碼,註冊點擊和移動的事件

```
private const int CANVAS SIZE = 400;
private const String MESSAGE = "Where is the mouse?";
private SolidColorBrush whiteColor =
                                 new SolidColorBrush (Colors.White);
public MainPage()
    this.InitializeComponent();
     textBlock.Text = MESSAGE;
     canvas.Width = CANVAS SIZE;
     canvas.Height = CANVAS SIZE;
     canvas.Background = whiteColor;
     canvas.PointerPressed += PressOnCanvas;
     canvas.PointerMoved += MoveOnCanvas;
private void MoveOnCanvas(object sender, PointerRoutedEventArgs e)
     double moveX = Math.Round(e.GetCurrentPoint( canvas).Position.X,
2);
    double moveY = Math.Round(e.GetCurrentPoint( canvas).Position.Y,
2);
     textBlock.Text = "You moved on (" + moveX + ", " + moveY + ")";
private void PressOnCanvas(object sender, PointerRoutedEventArgs e)
     double pressX =
               Math.Round(e.GetCurrentPoint( canvas).Position.X, 2);
     double pressY =
               Math.Round(e.GetCurrentPoint( canvas).Position.Y, 2);
     textBlock.Text = "You pressed on (" + pressX + ", " + pressY +
")";
```

- The End -