



An UWP application is also known as a “UWA” – Universal Windows Application.



Universal



The example in this chapter is for Visual Studio 2017 on Windows 10 – it won’t work with earlier versions of Windows.



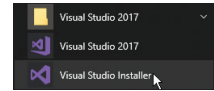
Depending upon your choices when you installed Visual Studio, you may already have the Universal Windows App Development Tools.

Starting a Universal project

Windows 10 introduced the **Universal Windows Platform** (UWP) that enables you to create a single application that will run on any modern Windows-based device – phone, tablet, or PC. The interface layout of a UWP application uses the **eXtensible Application Markup Language** (XAML) to specify components. In order to develop apps for the UWP, you should be running the latest version of Windows 10 and your Visual Studio IDE must include the **Universal Windows App Development Tools**:

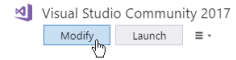
1

Go to the Windows apps menu and launch the **Visual Studio Installer**



2

Click the Installer’s **Modify** button to open the “Modifying” dialog



3

Select the “Workloads” menu, then choose the **Universal Windows Platform development** workload components



4

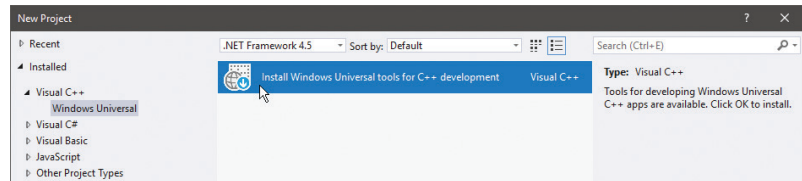
Click the **Modify** button to download and install the UWP development workload components

5

Click the **Launch** button to open the Visual Studio IDE, then select **File, New, Project**

6

Select **Installed, Visual C++, Windows Universal** and click the option to **Install Windows Universal Tools for C++ development** to download the tools

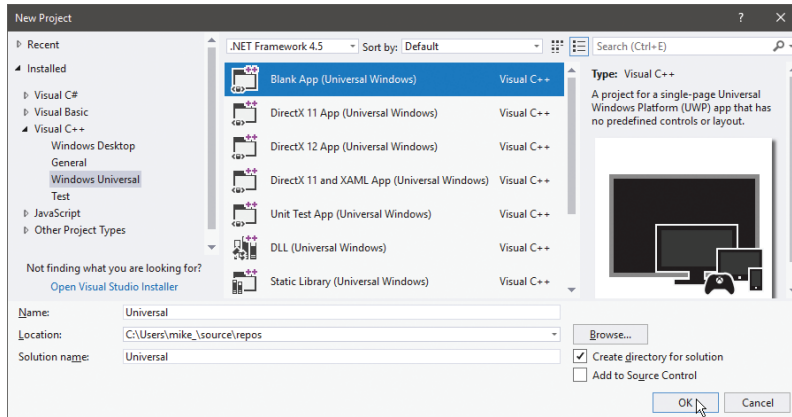


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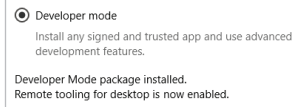
When the download has completed, click the **Install** button to add the tools into the Visual Studio IDE

...cont'd

- 8 Next, select **File, New, Project** and create a new **Blank App (Universal Windows)** project called "Universal"



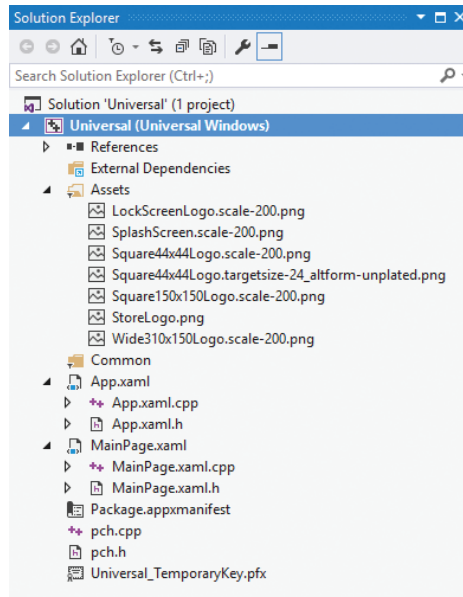
On Windows 10 you should ensure that the **Developer mode** option is enabled in **Settings, Update & Security, For developers**.



- 9 When asked to select the target and minimal platform versions, simply click **OK** to accept the default options

- 10 After Visual Studio creates the new project, select **View, Solution Explorer** to examine the generated files:

- A set of logo images in an **Assets** folder
- Internal XAML and C++ **App** files
- XAML and C++ files for the **MainPage** – here is where you will create interface components and functional code
- Other miscellaneous **Package** files



These files are essential to all UWP apps using C++ and exist in every project Visual Studio creates to target the Universal Windows Platform with C++.