

# How to Install Qt and Setup for Visual Studio 2019



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4 min read · Feb 23, 2022



Figure 0 : Qt logo with Visual Studio 2019 logo

**Qt** is a powerful software which it allows developers to develop application in one codebase framework for any platform. Whilst Visual Studio 2019 is the best comprehensive IDE for .NET and C++ developers on Windows as it provides variety of tools and features to elevate and enhance every stage of software development.

## Motivation

In my opinion, for a developer who using VS 2019 as main IDE for development, would be easier to develop a Qt application in IDE that familiar

with especially for building and debugging process.

## Introduction

For this tutorial, I will explain on;

- How to install **Qt 5.14.x** on Windows 10
- How to setup **Visual Studio 2019** for the Qt version installed.

For this tutorial, I am using Qt 5.14.2 for Windows.

## Download

### Visual Studio Installer

**VS(archives):** <https://visualstudio.microsoft.com/vs/older-downloads/>

### Qt Installer

**Qt 5.14.2(archives):** <https://download.qt.io/archive/qt/5.14/5.14.2/>

**Qt 5.14.2(exe):** [qt-opensource-windows-x86-5.14.2.exe](#)

## Install Qt on Windows 10

Just follow EXACTLY these steps and you good to go.

1. **Run** the Qt installer exe.
2. Click **Next**.
3. **Login/SignUp** first, click **Next**.
4. **Agree** to something you won't care to read, click **Next**.
5. Click **Next** on Welcome to Setup Page (but why?).
6. **Specify** installation directory : "C:\Qt\Qt5.14.2", **check** on Associate with common file..., click **Next**.
7. **Check** on Qt 5.14.2 and leave other as default, click **Next**.
8. **Agree** again to something you won't care to read, click **Next**.
9. Click **Next** on Start Menu Shortcut name page.
10. Click **Install** (finally) and **wait** to finish.

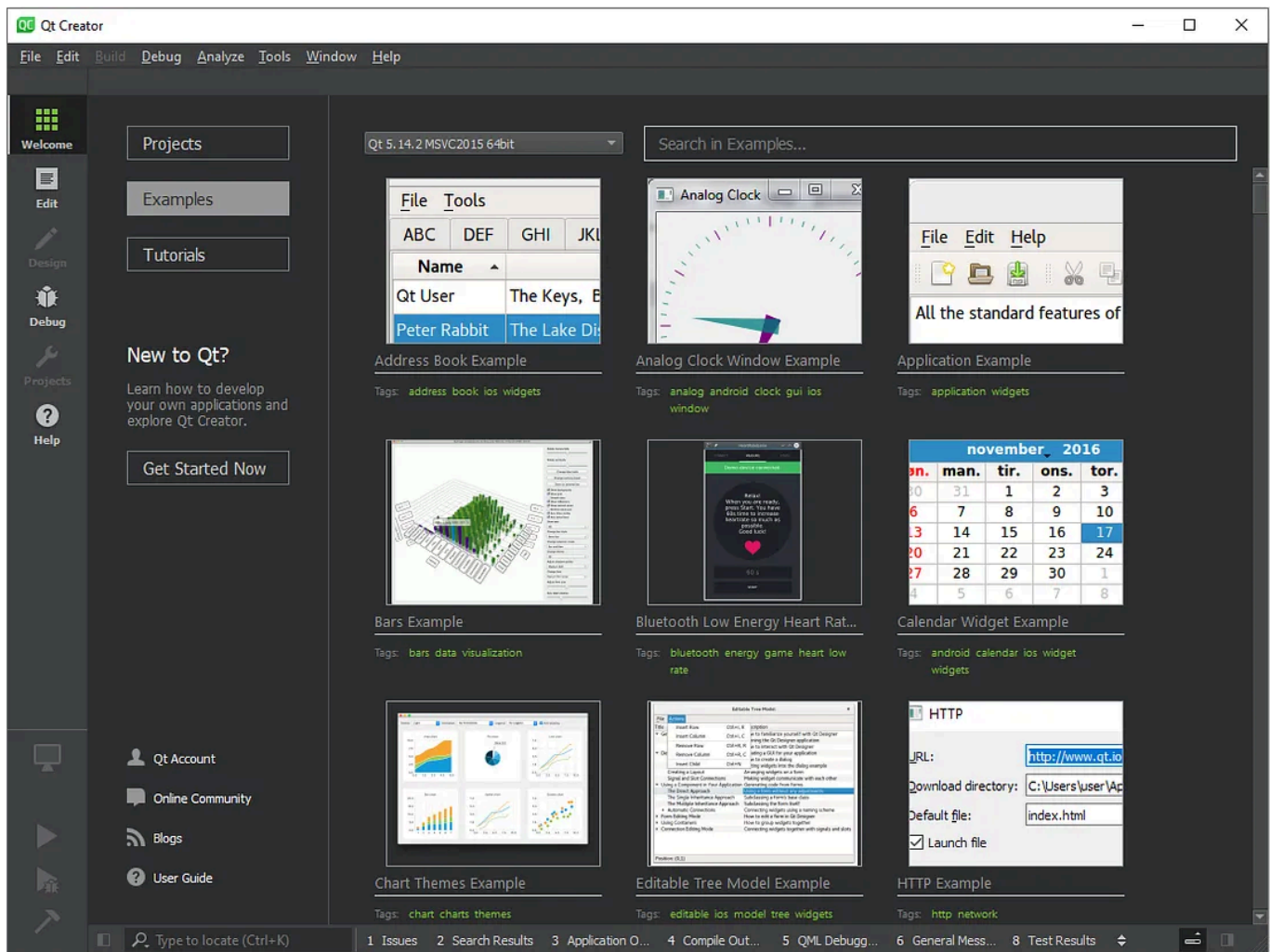


Figure 1: Qt Creator

There you go! Now Qt Creator has been installed along with Qt library.

## Setup Qt for Visual Studio 2019

There are two steps involved to setup Qt for VS 2019 which are as below.

### Step 1: Install Qt Visual Studio Tools for VS 2019

1) Open VS 2019.

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## 2) Go to **Extensions** tab > **Manage Extensions**.

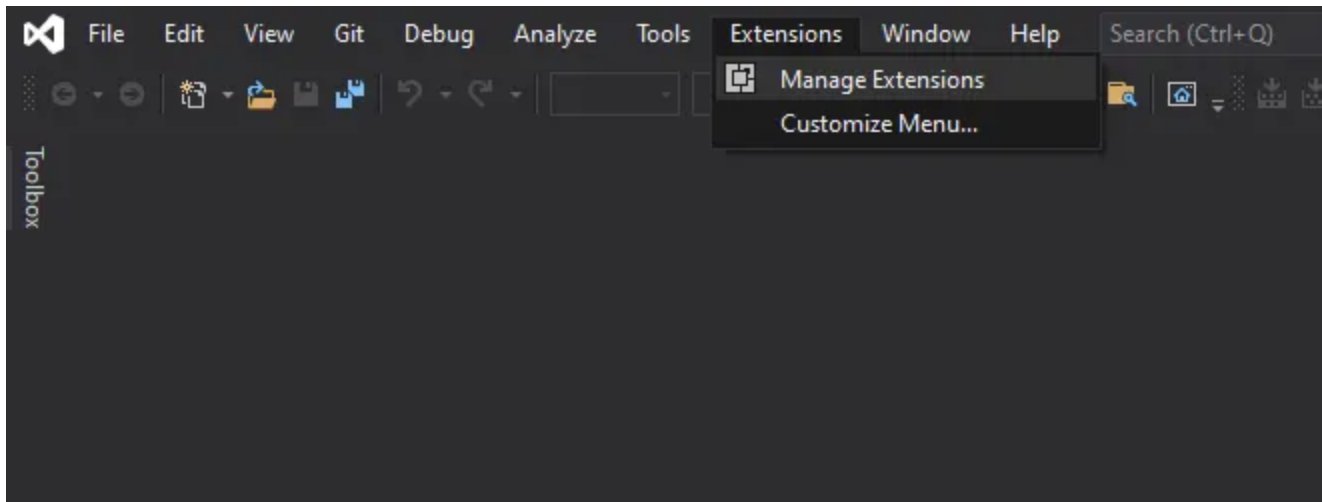


Figure 2 : Manage Extension.

## 3) Go to **Online** tab > Search for “*Qt Visual Studio Tools*”.

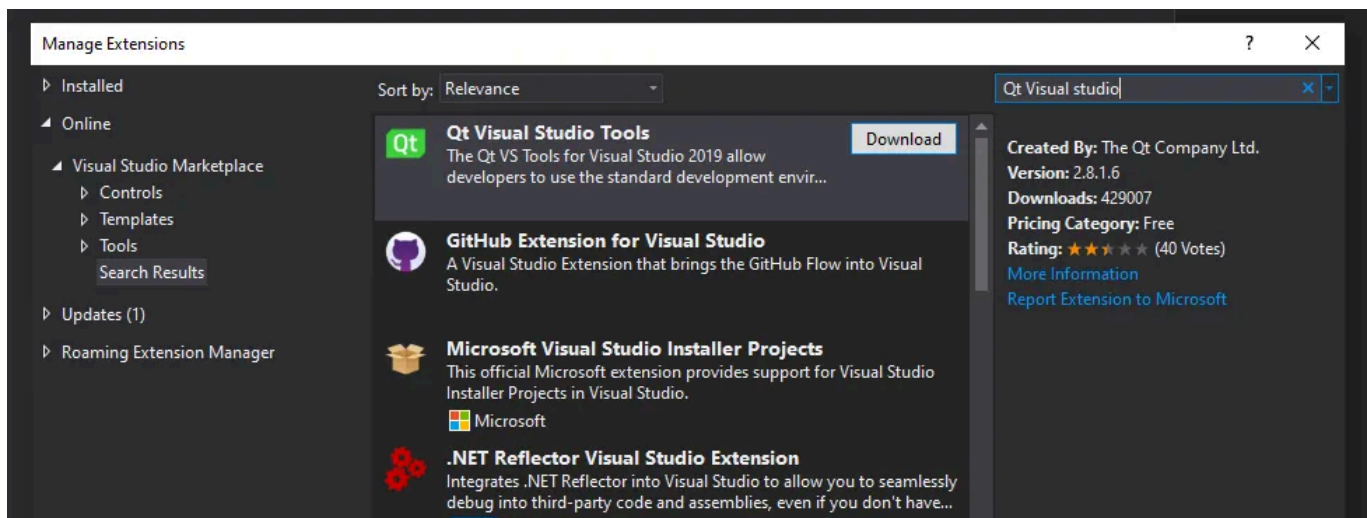


Figure 3 : Search for extension.

## 4) Click **Download** on *Qt Visual Studio Tools*.

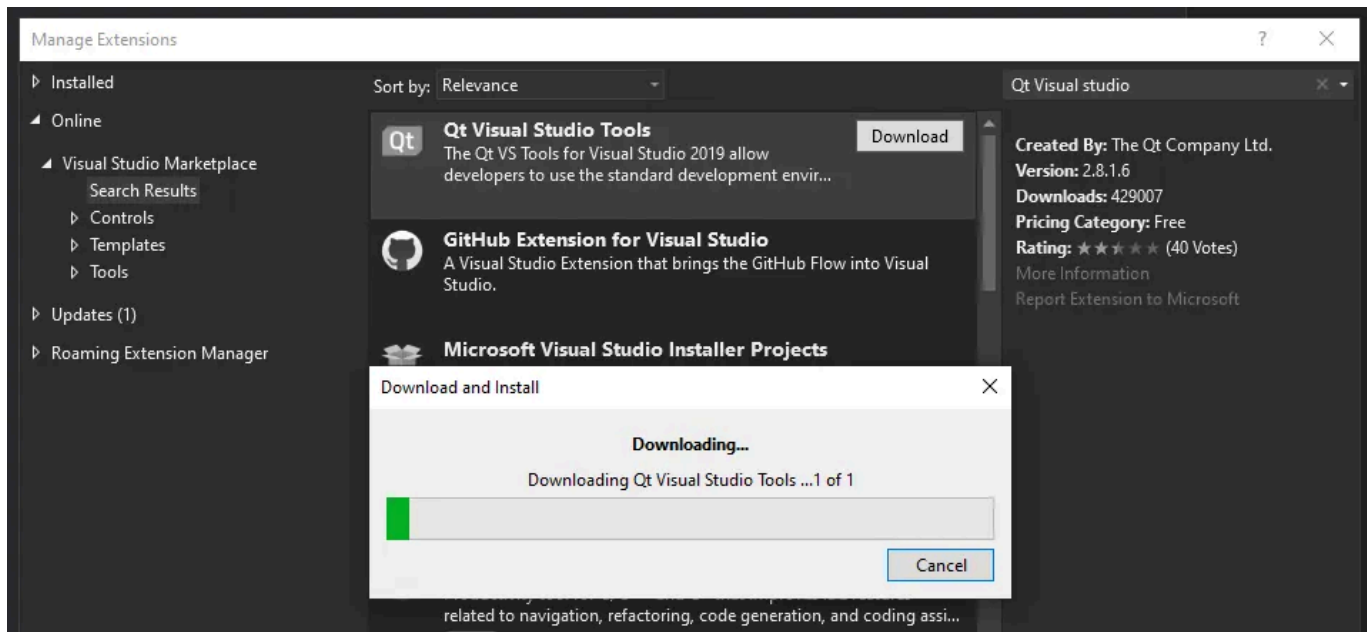


Figure 4 : Download extension.

5) Close VS 2019 (Make sure you close all VS 2019 program) and the extension will start to install.

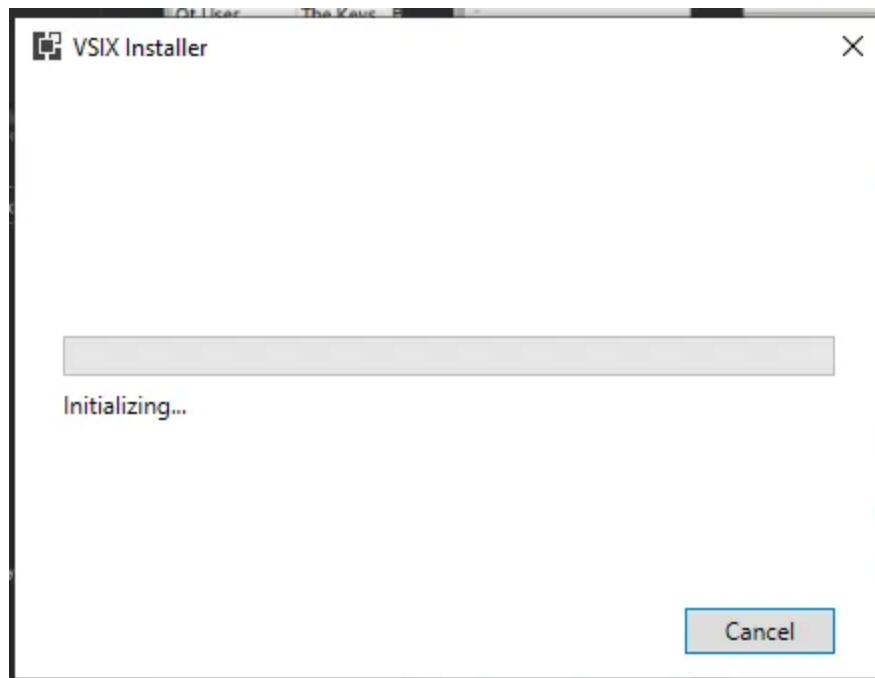


Figure 5 : VS extension installation.

6) Click on **Modify** and wait to finish.

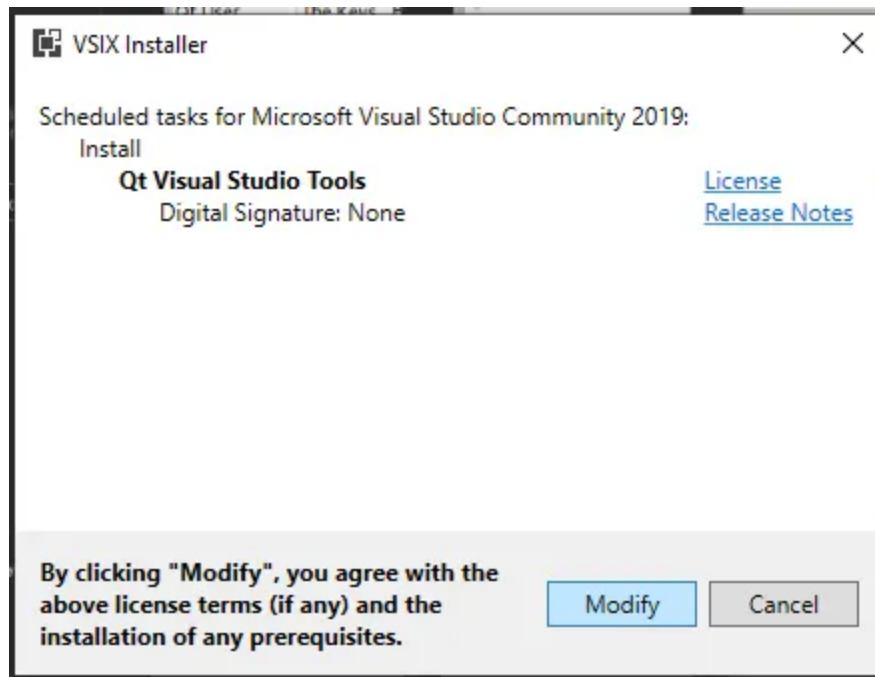


Figure 6 : Install extension.

7) Close the extension installation windows.

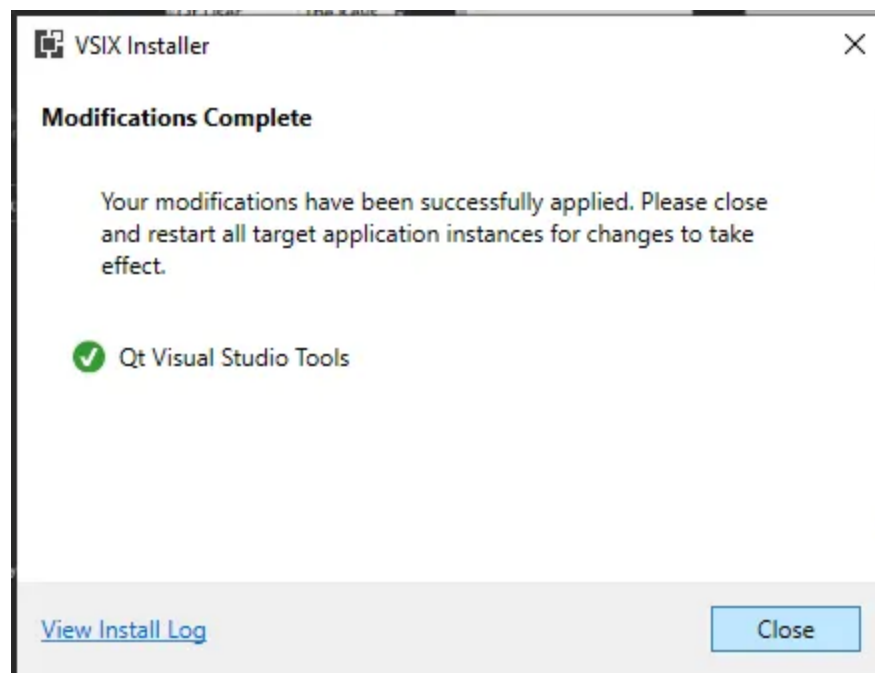


Figure 7 : Extension installed.

8) Done!

Now Qt Visual Studio Tools extension has been installed into your IDE which allows to debugging and building through Visual Studio.

## Step 2 : Configure Qt Visual Studio Tools extension

1) Open VS 2019.

2) Go to **Extensions** tab > **Qt VS Tools** > **Qt Versions**.

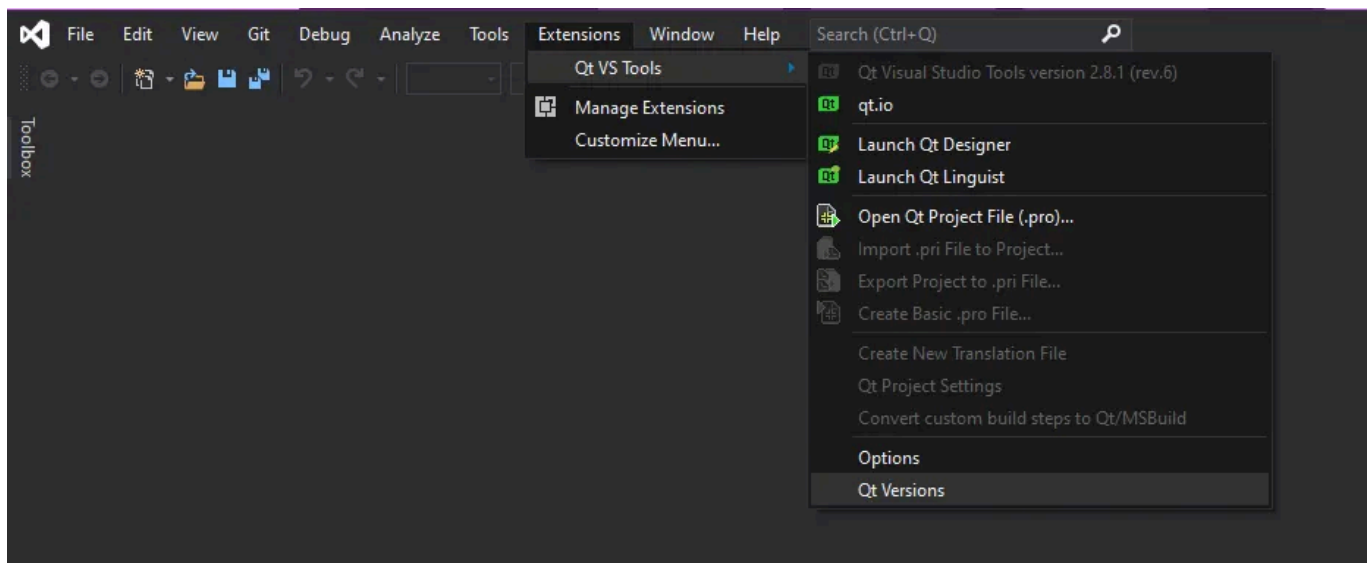


Figure 8 : Qt Version tab.

3) Click on **Add New Qt Version**.



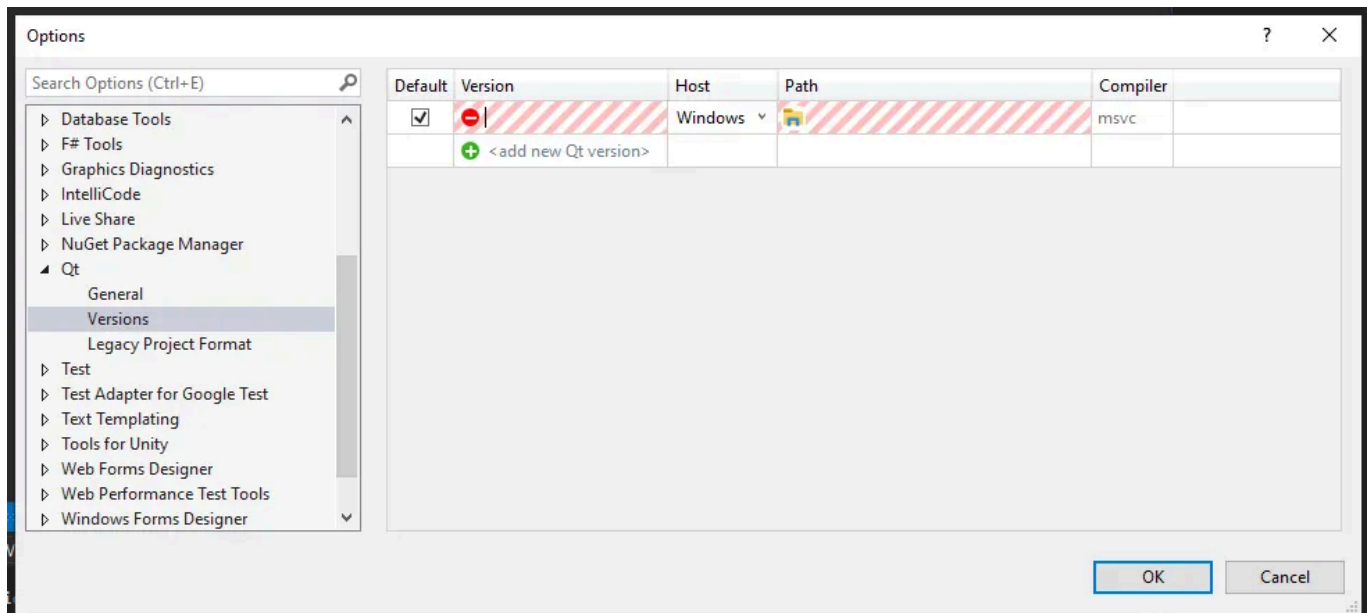


Figure 9 : Add new Qt Version.

4) Type “Qt5.14.2” as version name in Version column.

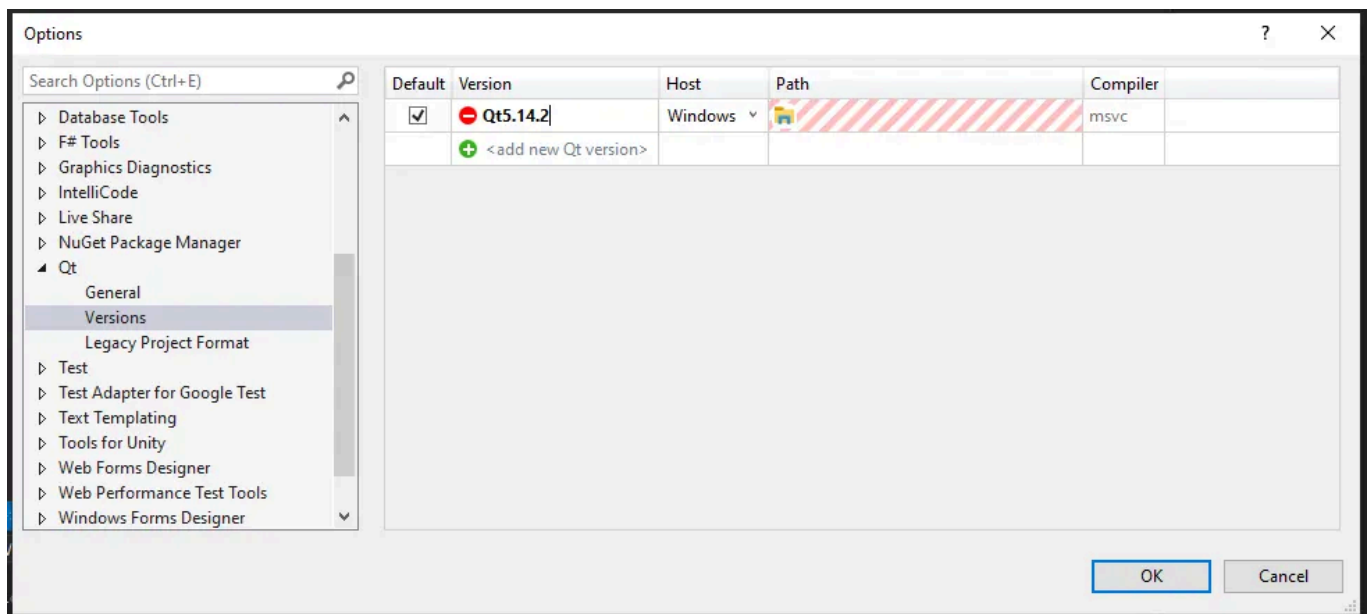


Figure 10 : Set Qt version name.

5) Find “C:\Qt\Qt5.14.2\5.14.2\msvc2017\_64\bin” directory from installation folder and **Select qmake.exe**.

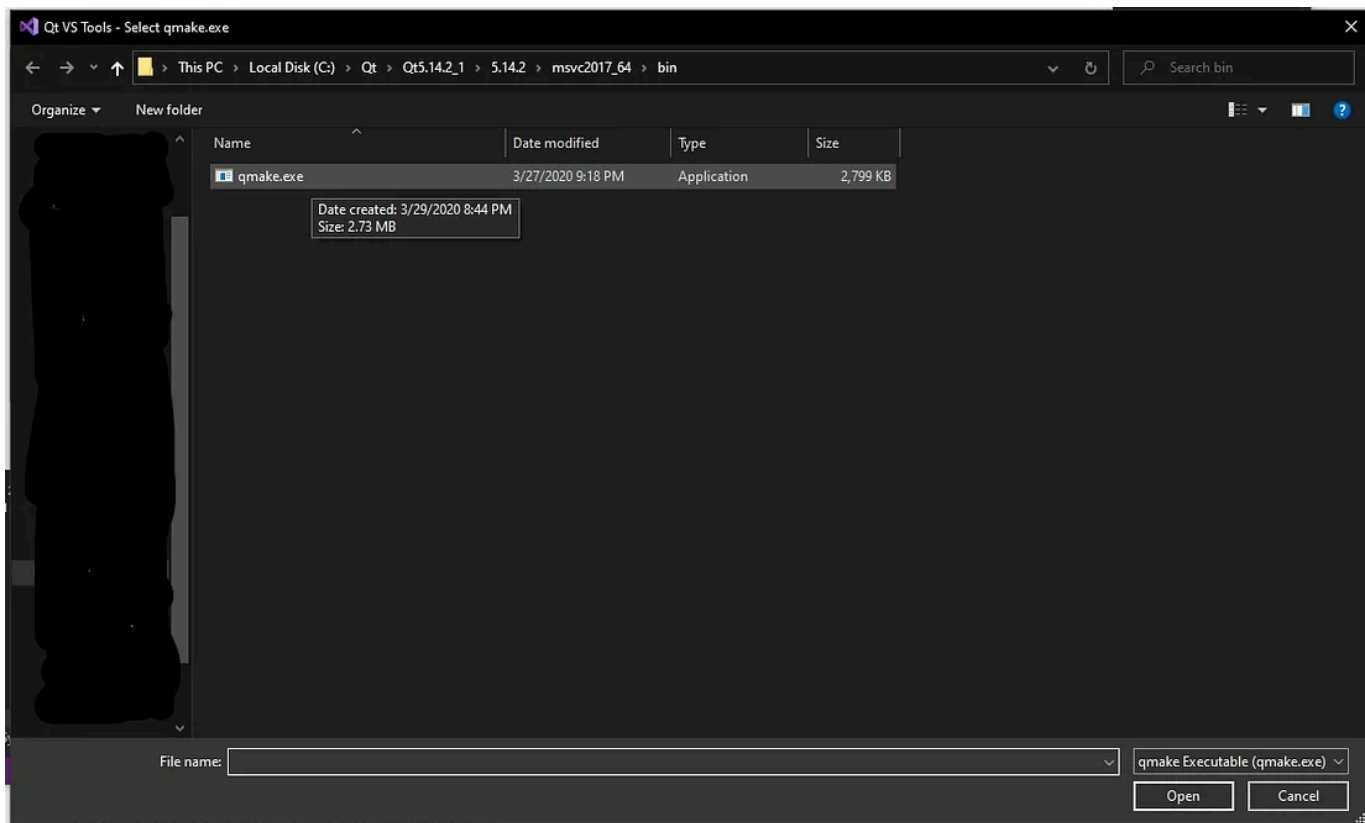


Figure 11 : Select qmake.exe from installation folder.

6) Click OK.

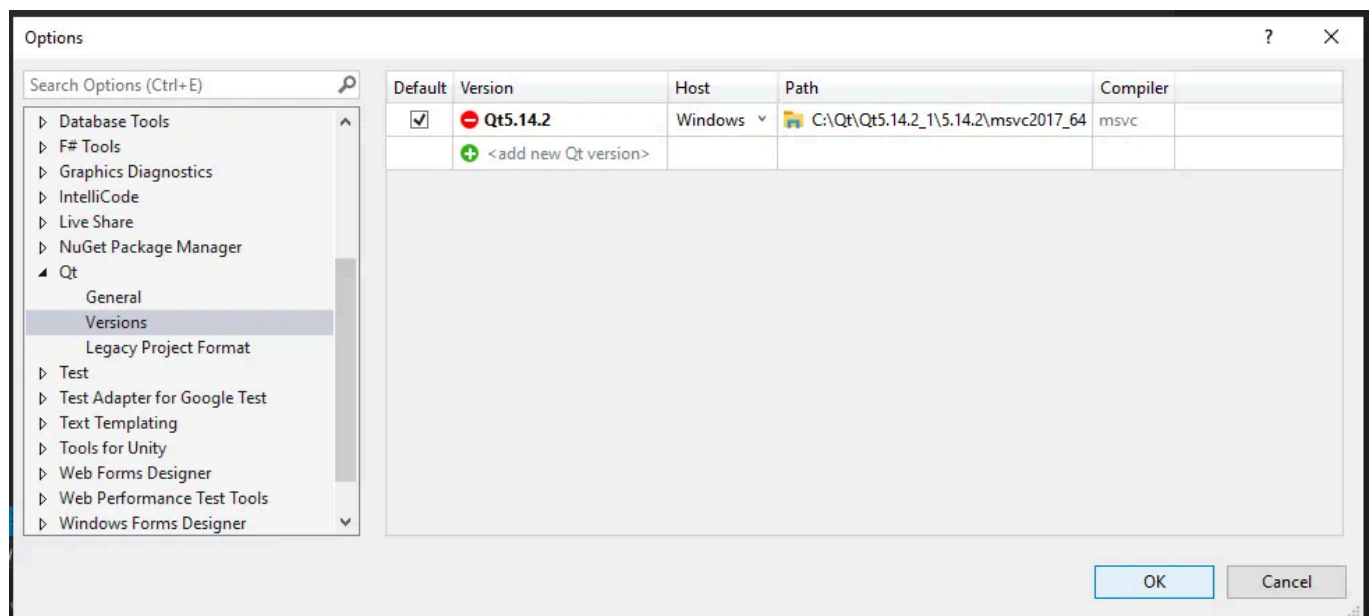


Figure 12 : New Qt version added.

Voila! That's it! Now Visual Studio 2019 has been setup for Qt development.

## VS Project Settings

Now, your project need to include the Qt library that have set previously.

1) Right-click on project solution in Solution Explorer > go to **Properties**.

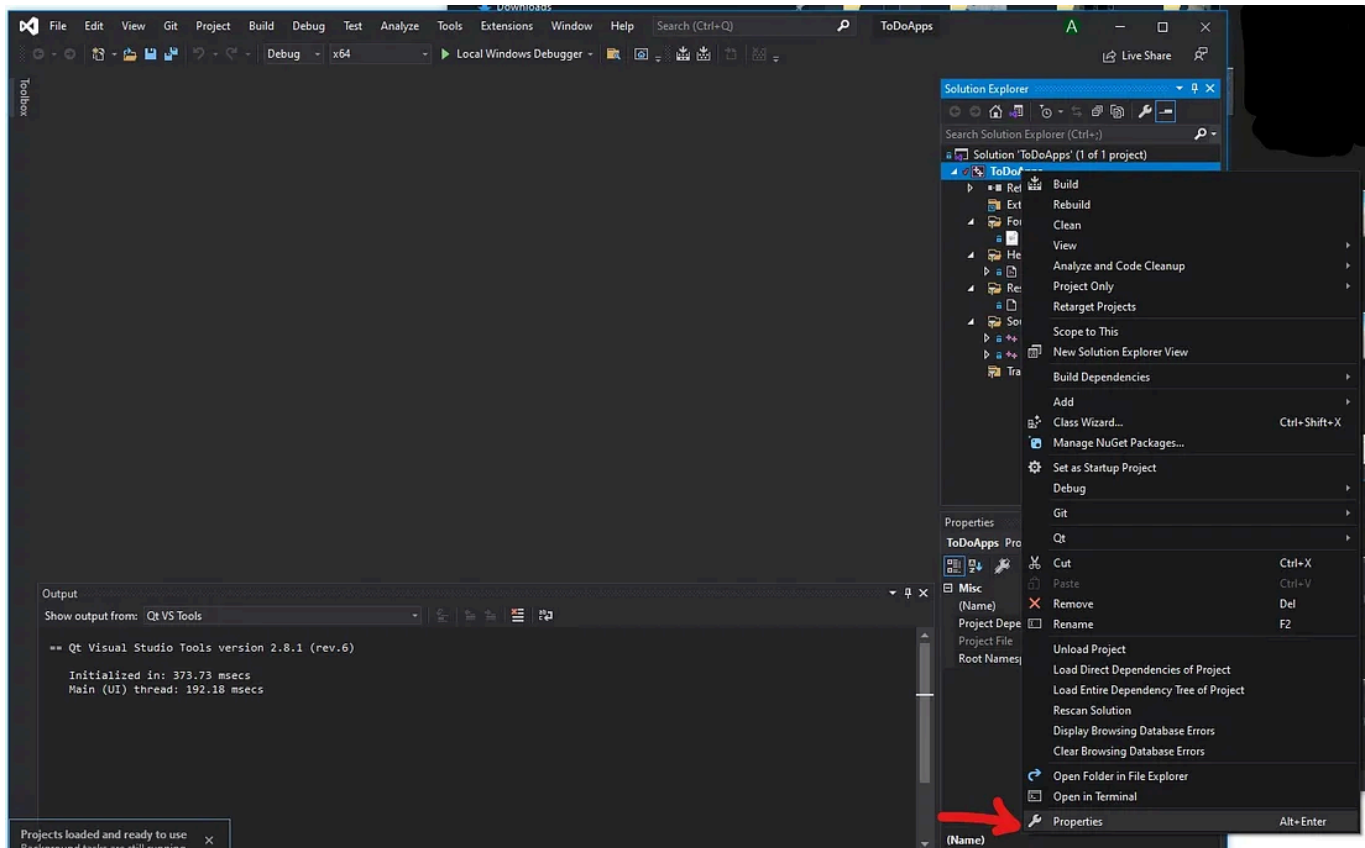


Figure 13 : Project properties.

2) Go to **Qt Project Settings** tab under Configuration Properties.

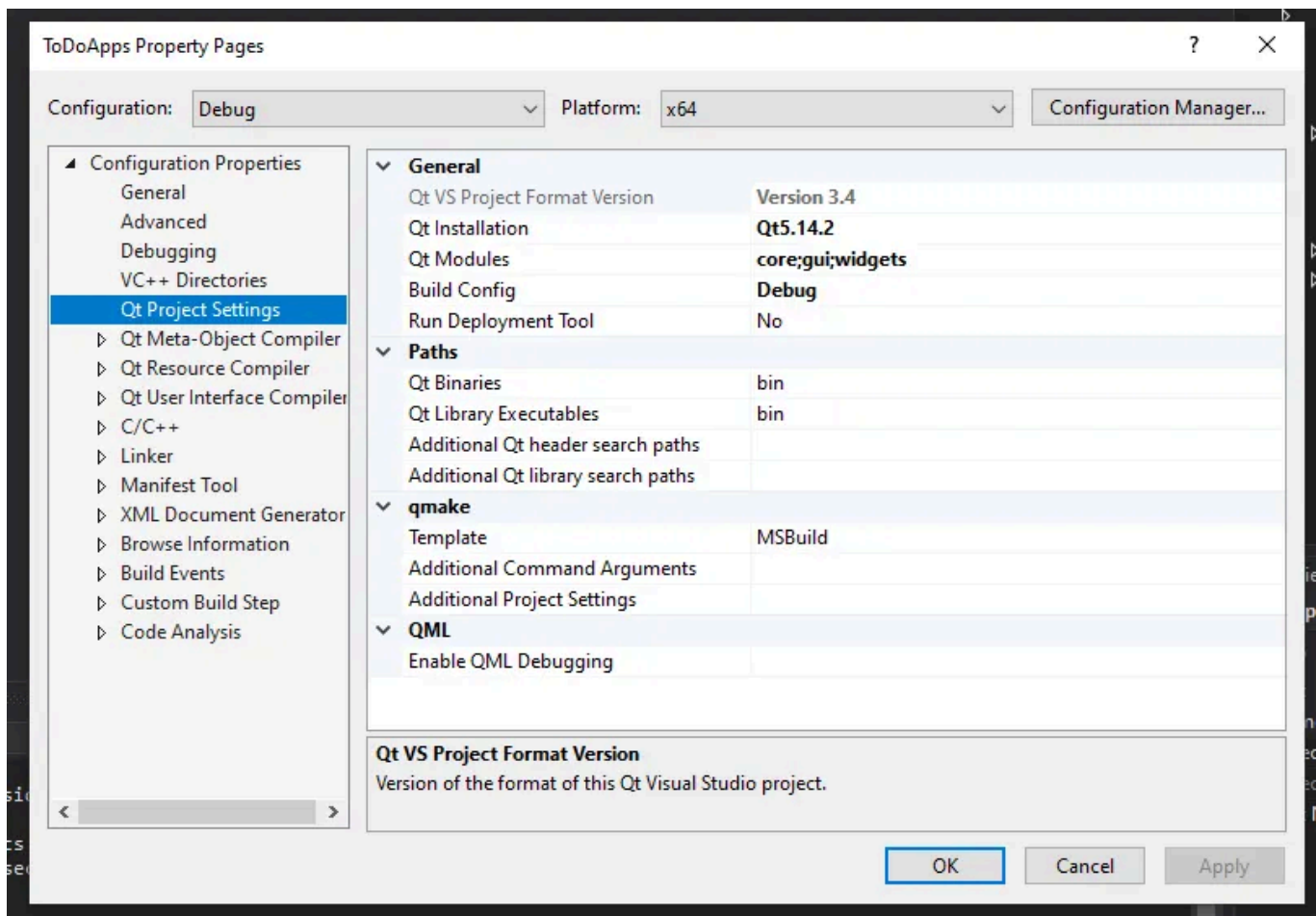


Figure 14 : Qt Project Settings tab.

3) Find **Qt Installation** > Select **Qt version** specified.

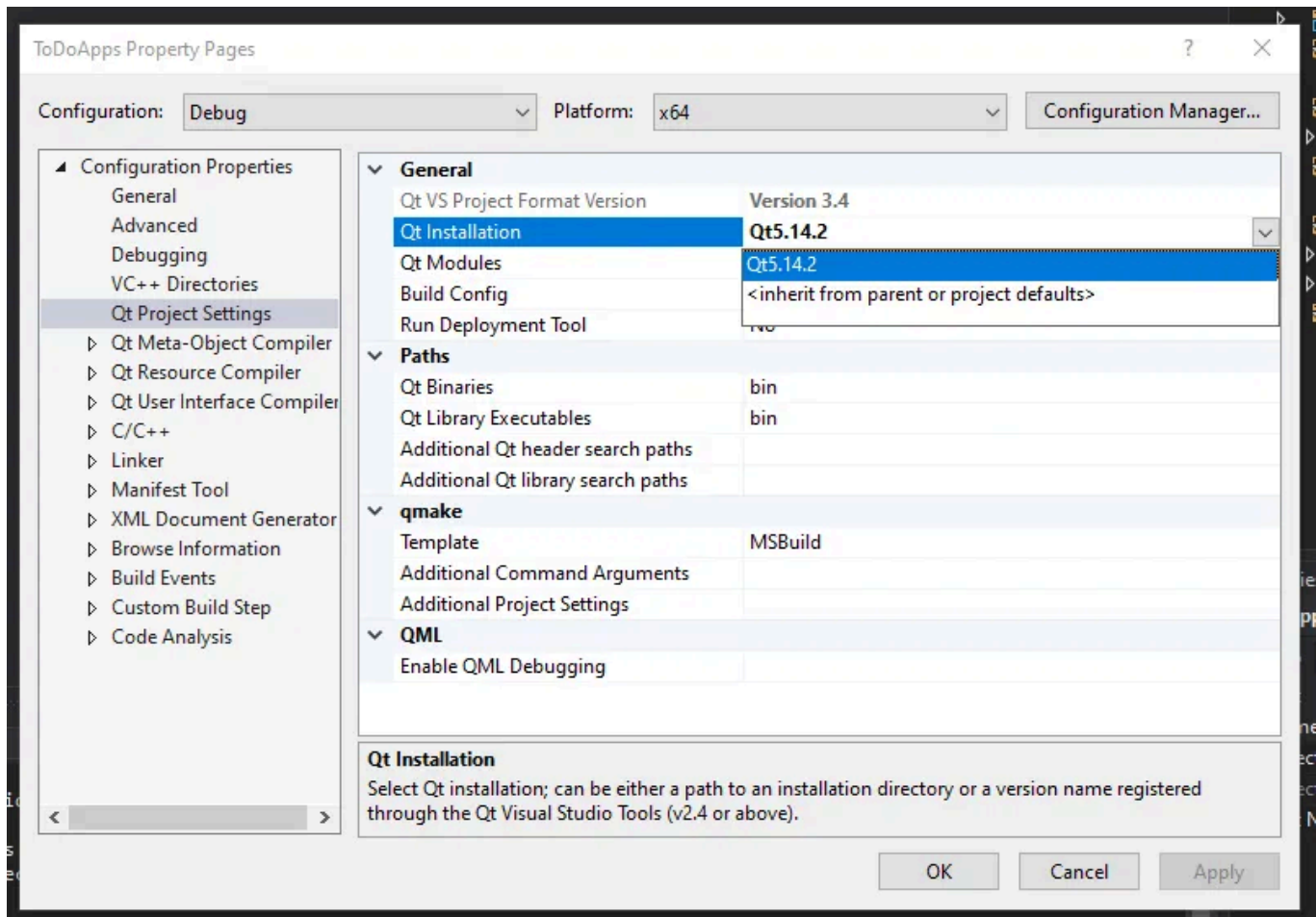


Figure 15 : Qt Installation version set.

4) Click **Apply** and **OK**.

**Well, that's it!**

You are set to go!

## Where to Start With Qt?

Don't worry I got you covered: [Building ToDo App with Qt and C++ for Absolute Beginner](#)

## Conclusion

I hope this tutorial guide will help you to install Qt on Windows 10 and also setup your Visual Studio IDE for Qt which helps a lot on debugging and building process especially for developer who using Visual Studio as their main IDE. If there is any questions, feel free to comment below. *Cheerio!*

Qt

Visual Studio

Tutorial

Install

Setup