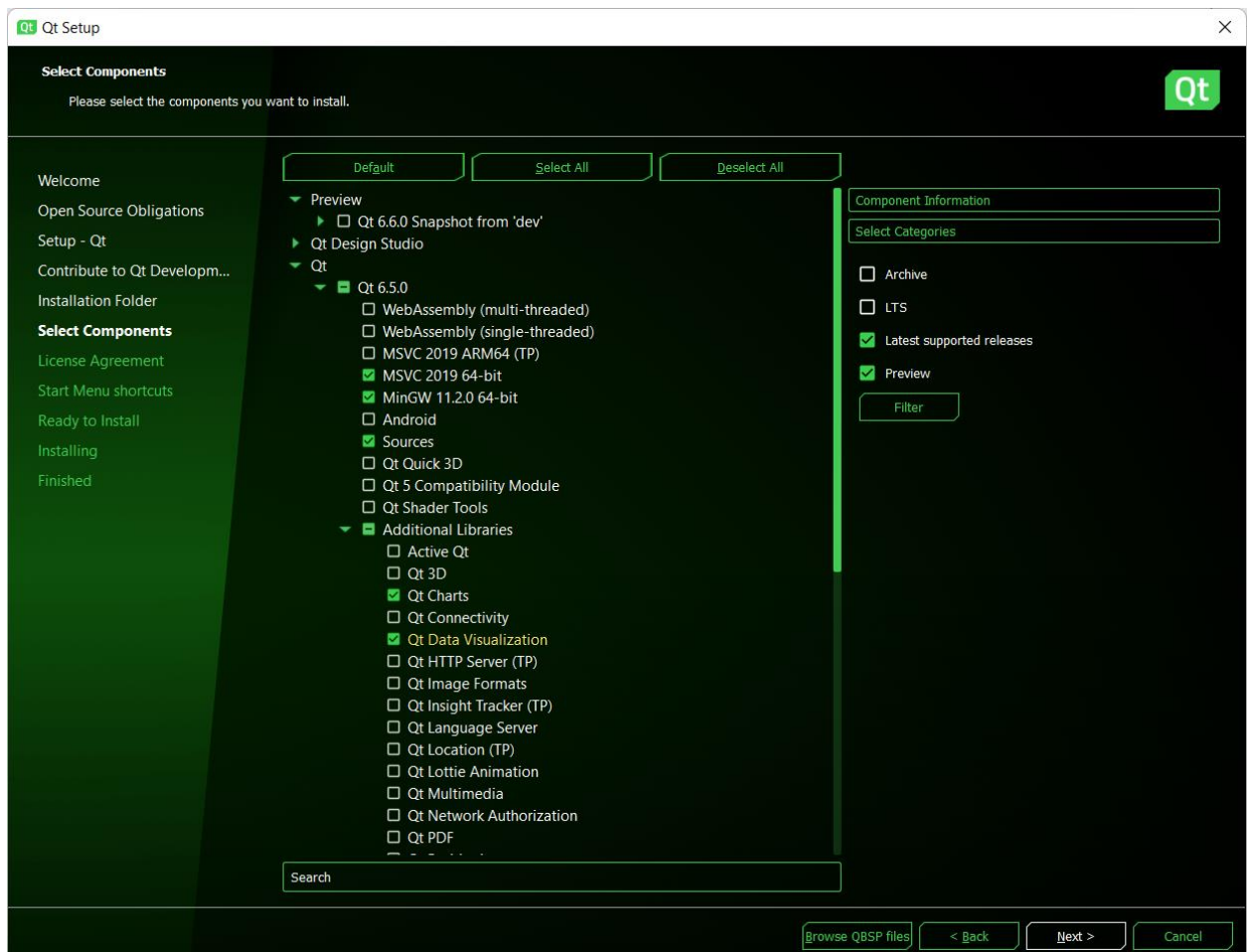
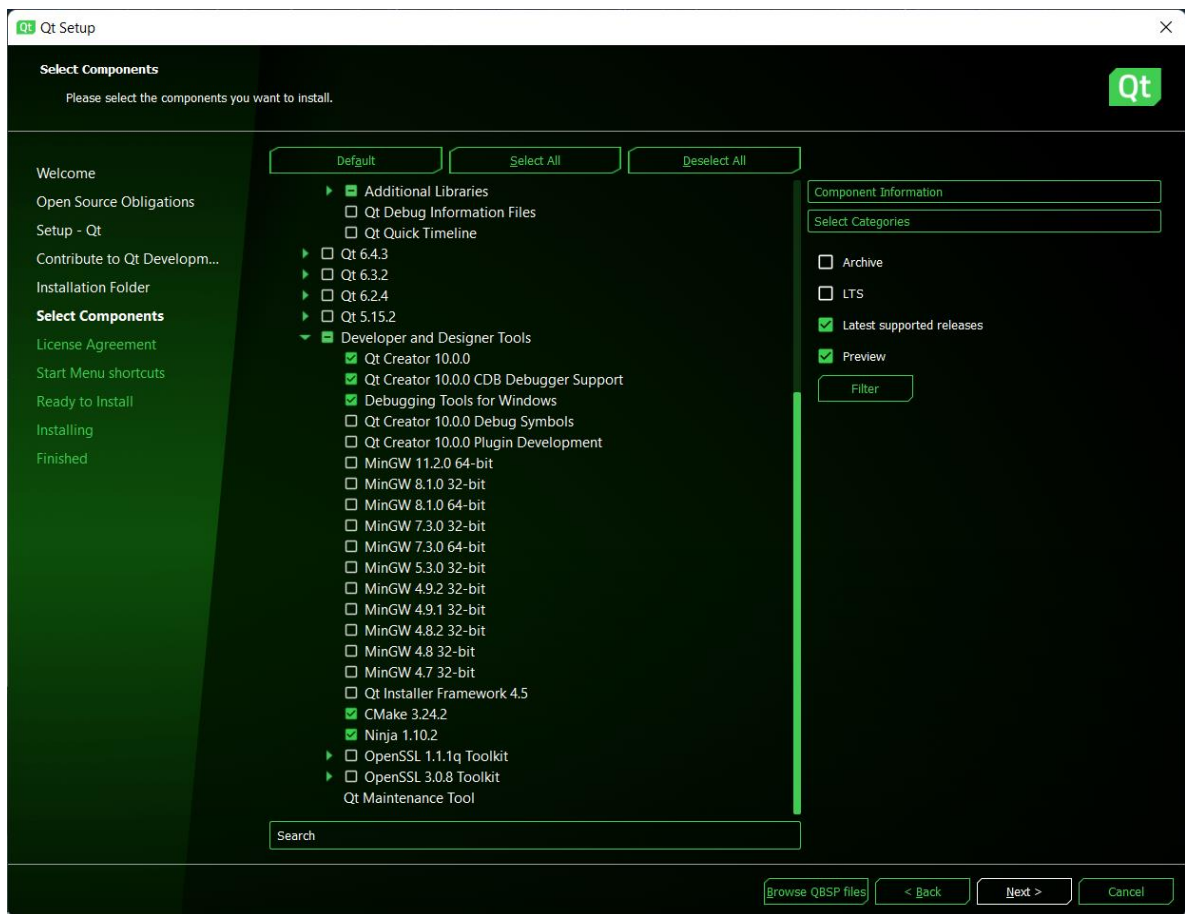


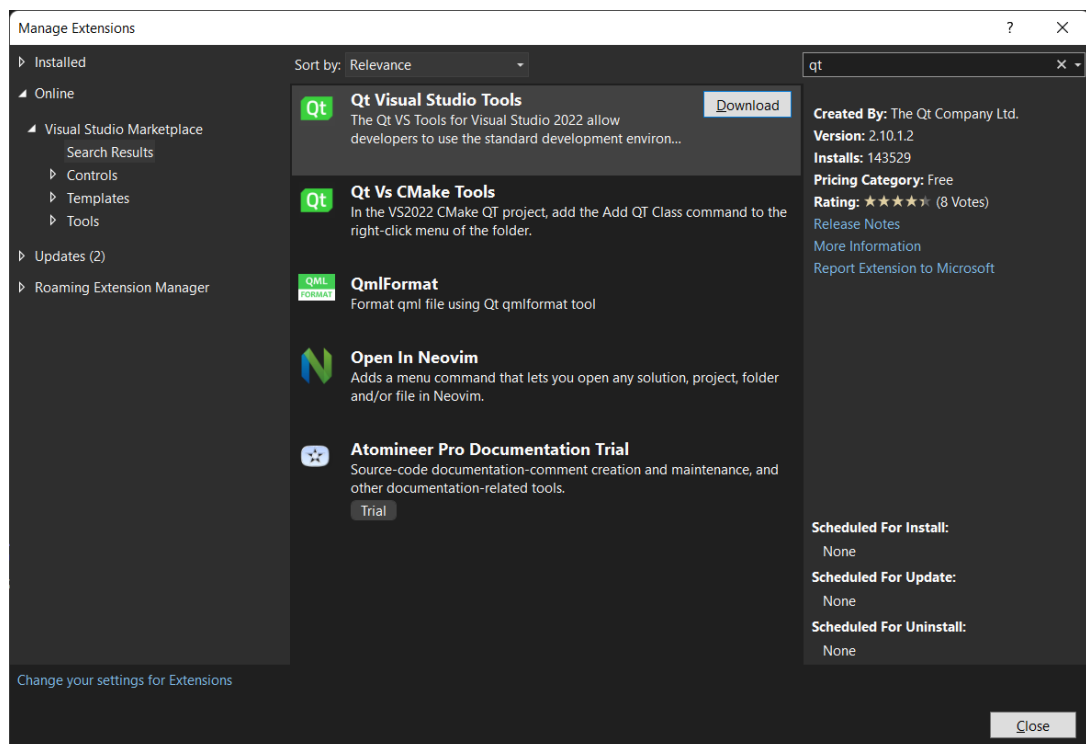
SETTING UP QT WITH VISUAL STUDIO (VS) 2022

1. Go to: <https://www.qt.io/download?hsLang=en> → *Download Qt for open source*. This will take you to a new webpage, where you can download the **Qt Online Installer**. Download the open source version of Qt that is suitable for your operating system. This will be automatically detected.
2. Start the installation. You will be asked to create a Qt account. Please note that:
 - a. The full installation required ~10 GB. You can install only the essential components (custom installation), which takes ~ GB 4.68.
 - b. The installation might take a while (~10-20 minutes), depending on your Internet connection.
3. Make sure you install the prebuilt components for the compiler you are using – MSVC2019/MinGW, sources, charts and data visualization components (optionally), Qt Creator and debugging tools:

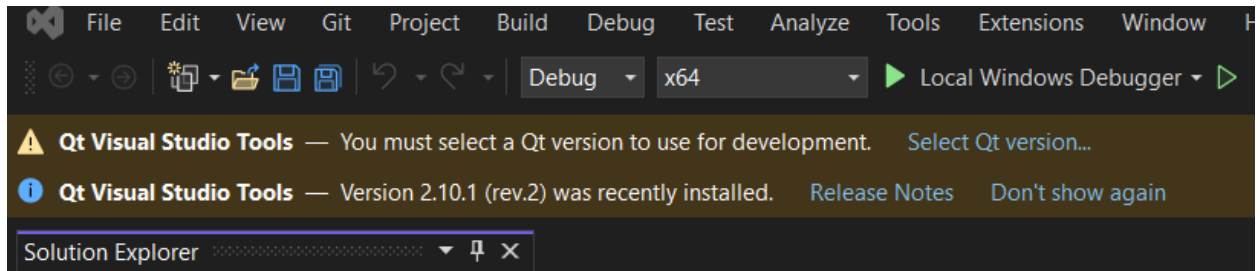




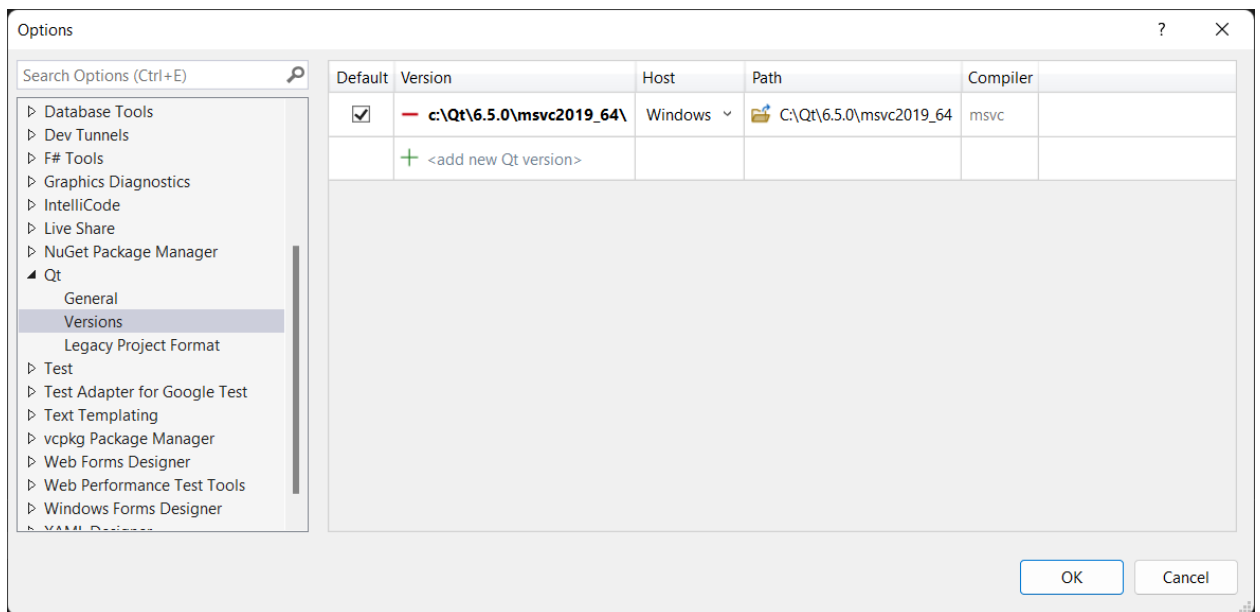
4. Download and install the Qt Visual Studio Tools: VS → Extensions → Manage Extensions → search “Qt”. Download, then closing VS will begin the installation.



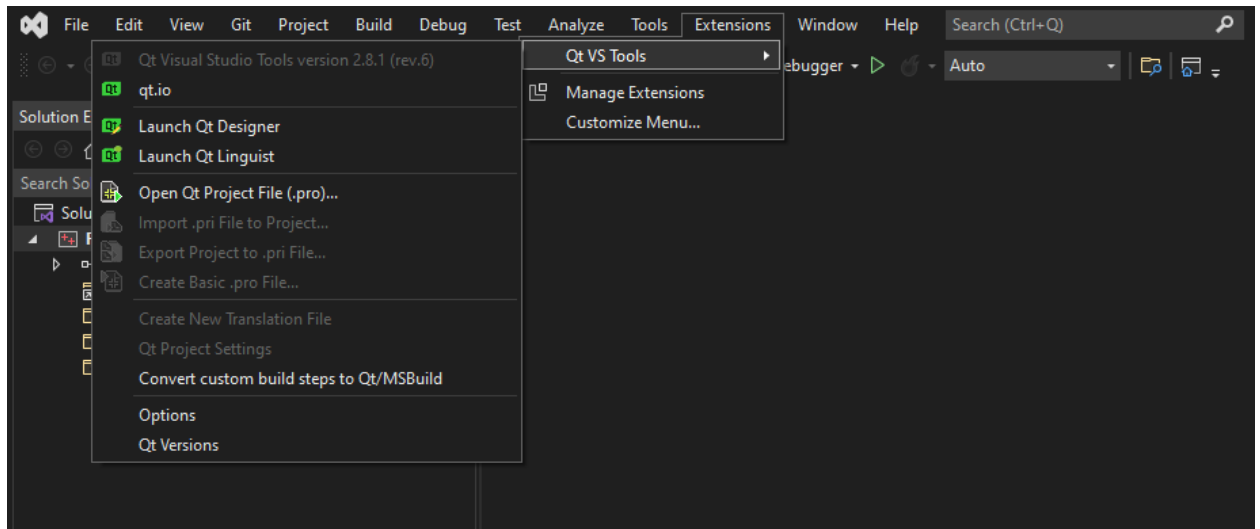
5. Open Visual Studio. If the Qt VS Tools were correctly installed, you should see the messages below:



6. Select the Qt version to use for development:
- Column "Path" – Set the path towards the **qmake.exe** application in your Qt installation folder (e.g. `c:\Qt\6.3.0\msvc2019_64\bin\qmake.exe`)



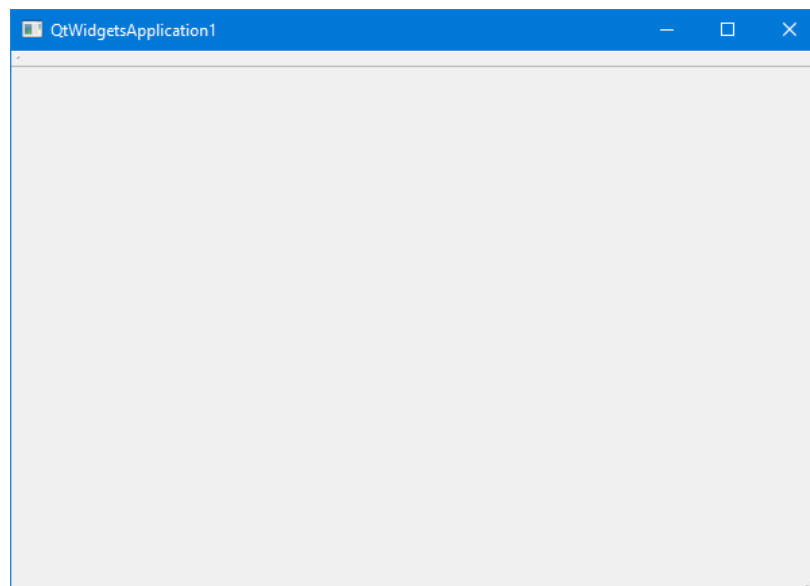
7. If the Qt tools were correctly installed, you should also see the messages below and find these tools under the "Extensions" menu.



8. Done! Restart Visual Studio. Now, let's see how we can create a new Qt project.

CREATING A NEW QT PROJECT WITH VISUAL STUDIO 2022

1. VS → Create a new project → Qt Widgets Application.
2. In the following dialogs, keep the default settings (Next -> Next -> Finish).
3. In the "Source Files", a file "main.cpp" should already be created (other .cpp, .h and .ui files will also be created).
4. Run the application. You should see an empty window:



5. You are now ready to build wonderful GUIs! 😊