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The video below is probably the best tutorial on how to install root using a Windows based system.

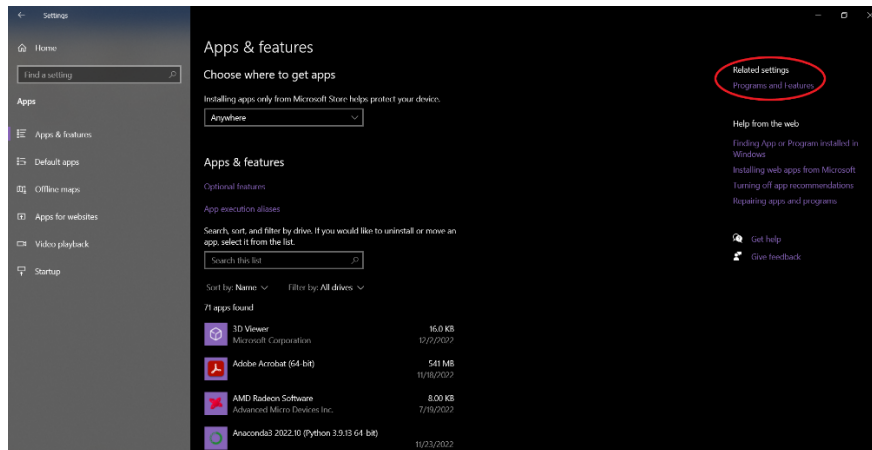
<https://youtu.be/pmfM4Zq6OQU>

Some Tips:

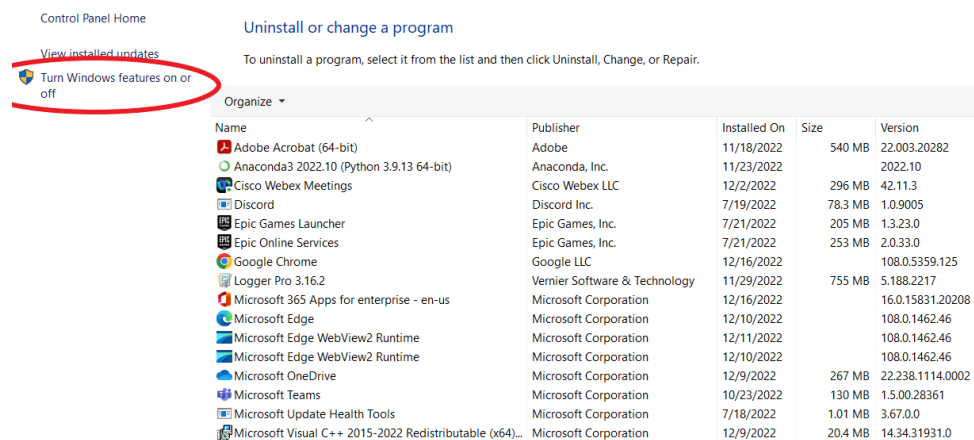
Windows Subsystem for Linux activation is required:

1) Go to Settings --> Apps

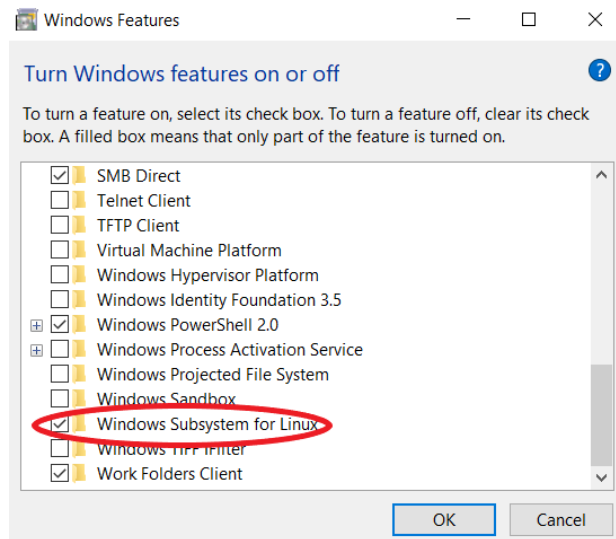
2)



3)



4)



A reboot is required after the last step.

5) Downloads you need to do:

Ubuntu (newest version) --> Microsoft Store

Xming --> <https://sourceforge.net/projects/xming/>

6) To run Ubuntu, you will need the following:

Create UNIX **username**: xxxxx

Create new **password**: xxxxx

It is important to remember the password above, as it will be requested later by the system (Ubuntu) when downloading and upgrading certain packages.

7) When the required updates and upgrades are completed, as shown in the video, we are ready to continue.

8) Select the latest version: https://root.cern/install/all_releases/

9) Scroll down to find the prerequisite installation packages for Ubuntu: <https://root.cern/install/dependencies/>

I suggest you install the additional - optional packages as well, because there is a great possibility you will need them at some point.

10) When all the above downloads are completed, be sure to follow the tutorial closely, because you have to be very careful in which folder you have all the necessary files.

In case you are not sure what each folder contains, go to the directory you have created and search for its contents, as shown below:

```
dir *name of the folder*
```

```
ls
```

11) When the configuration is done (ccmake ..) we can press g (generate) and then:

Write **make -j4** --> if you have a **32bit** operating system

Write **make -j8** --> if you have a **64bit** operating system

If you are not sure, you can check it by selecting:

Settings --> System --> About --> System type

12) Now that you have downloaded Xming, find it in your downloads folder and proceed with the setup.

When you want to start a new project, write the folder that contains all the root files.

In this case, write: **. root-6.26.10-install/bin/thisroot.sh**

Then, you can optionally write **root** and the following message appears:

```
-----  
| Welcome to ROOT 6.26/10                                     https://root.cern |  
| (c) 1995-2021, The ROOT Team; conception: R. Brun, F. Rademakers |  
| Built for linuxx8664gcc on Nov 16 2022, 10:42:54             |  
| From tags/v6-26-10@v6-26-10                                 |  
| With c++ (Ubuntu 9.4.0-1ubuntu1~20.04.1) 9.4.0              |  
| Try '.help', '.demo', '.license', '.credits', '.quit'/'.'q' |  
-----
```

For a better looking code writing environment, you will need the code to be written and viewed in Xming, which was previously downloaded. For this new window to appear, write:

export DISPLAY="localhost:0"

and then:

gedit xxx.C (don't forget to write .C)

where xxx: the name of your new or existing project

If you want to run a project xxx.C that creates a graph, you must always write export DISPLAY[...], so that the graph is displayed.