wxWidgets Install on Windows

wxWidgets 3.0.4 can be installed and built on Windows, so I made a tutorial. Forewarning, it requires a couple of downloads/installs.

This requires using the Ubuntu subsystem terminal, a Windows app virtualizing a Linux kernel.

1. Follow this tutorial if you haven't installed Ubuntu subsystem before:

Ubuntu Subsystem Install Tutorial

2. Go to the wxWidgets site and download the **Windows** installer for **wxWidgets 3.0.4**:

Site: https://www.wxwidgets.org/downloads/

Direct link to wxWidgets-3.0.4 installer download: wxWidgets-3.0.4 Windows Installer

Running the installer with default settings will install wxWidgets in your **Windows C:/ folder**.

3. Open a Ubuntu terminal

Navigate to wxWidgets in your C:/ folder:

cd /mnt/c/wxWidgets-3.0.4/

* It's important to be in this directory when following the next step

4. Follow Professor's wxWidgets install:

http://www.cs.sjsu.edu/~mak/tutorials/InstallwxWidgets.pdf

* After following those steps, gtk-build/samples and gtk-build/demos should be built.

When you go to run a sample, such as:

cd /mnt/c/wxWidgets-3.0.4/gtk-build/samples/calendar/

./calendar

You will likely get the error:

Unable to init server: Could not connect: Connection refused

13:51:26: Error: Unable to initialize GTK+, is DISPLAY set properly?

5. To run the programs in windows:

Install X Server to run GUI programs:

https://sourceforge.net/projects/xming/

Set display (in Ubuntu terminal):

export DISPLAY=:0

* You have to **run** the **X Server AND this DISPLAY command** every time you open a Ubuntu terminal *

* If you want the terminal to remember the display command, open your .bashrc file *

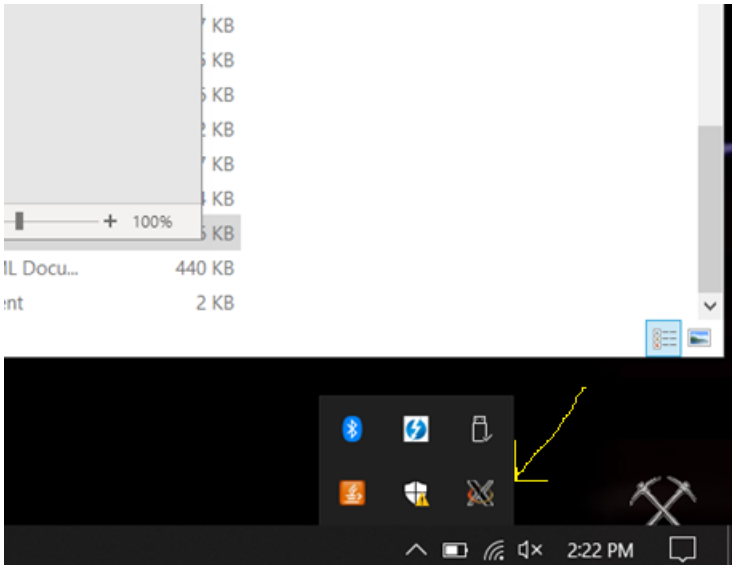
nano ~/.bashrc file

* Add the command to the bottom *

After doing that step, if you retry running the calendar app, it should open and display correctly.

If nothing displays, try:

1. Check if Xming is running, icon should be at the bottom right of your :



2. Try another DISPLAY value

* displays the valid DISPLAY values you can try *

ps e | grep -Po " DISPLAY=[\.0-9A-Za-z:]* " | sort -u

* Try a value you see *

export DISPLAY=:1

Or read more here:

https://www.howtogeek.com/261575/how-to-run-graphical-linux-desktop-applications-from-windows-10s-bash-shell/