How to setup your virtual machine using Oracle VirtualBox

Step 1: Create a new machine using xubuntu-18.04-desktop-amd64.iso

https://xubuntu.org/download/

Step 2: Install devel environment

sudo apt-get install gcc
sudo apt-get install make
sudo apt-get install libeigen3-dev

Install g++, freeglut, and glew

> sudo apt install g++
> sudo apt-cache search freeGLUT
> sudo apt install freeglut3
> sudo apt install libglew-dev
> sudo apt install freeglut3-dev
> sudo apt-cache search glew

If you need openGL, install also mesa-common-dev and libglu1-mesa-dev

You will need AntTweakBar for the UI elements. You can download that from:

http://anttweakbar.sourceforge.net/doc/

You will need to build and install AntTweakBar, like so

http://anttweakbar.sourceforge.net/doc/tools:anttweakbar:download

Step 3: Setup source control (git)

Install git

sudo apt-get install git

Install your ssh key for github

(https://help.github.com/en/articles/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent)

Step 4: (optional) Install VirtualBox Guest Extensions

This extension will allow you to resize the window as well as access dives on your machine (such as USB ports and cameras)

Cut and paste: To enable cut and paste between the host and guest machine, enable Devices->SharedClipbord->HostToGuest. You may need to enable this in the VM settings as well (under General->Advanced).

Screen resizing: Enable View -> Adjust Window Size