

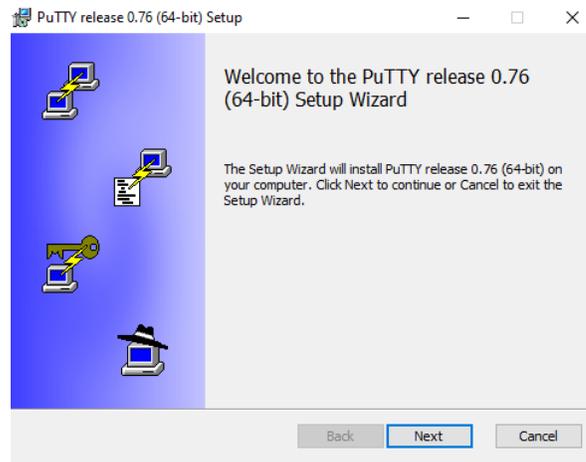
# SSH X11 Forwarding on Windows with Putty & Xming

For Windows users:

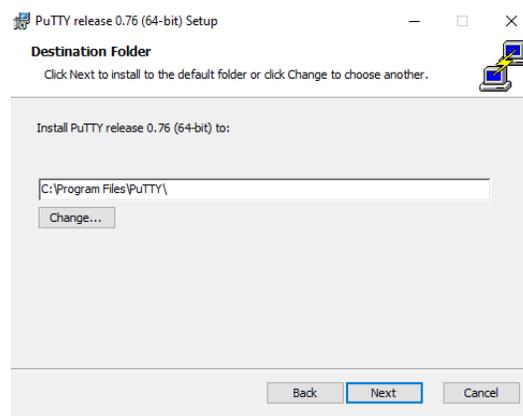
1. Get [PuTTY](#) (choose MSI Windows Installer), [Xming](#), and [Xming-fonts](#) (required for CSE202 work) installer, and install them on your computer.

## 1. Install Order – PuTTY First

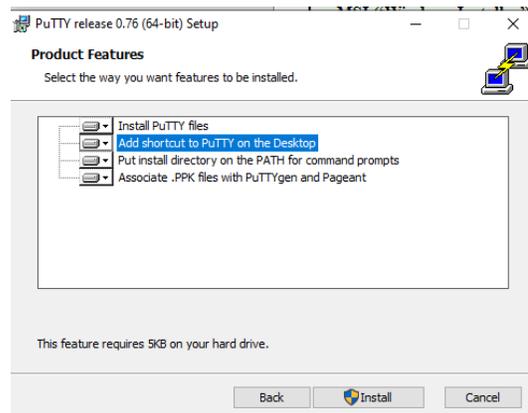
### a. Install Putty, open .msi file and click Next



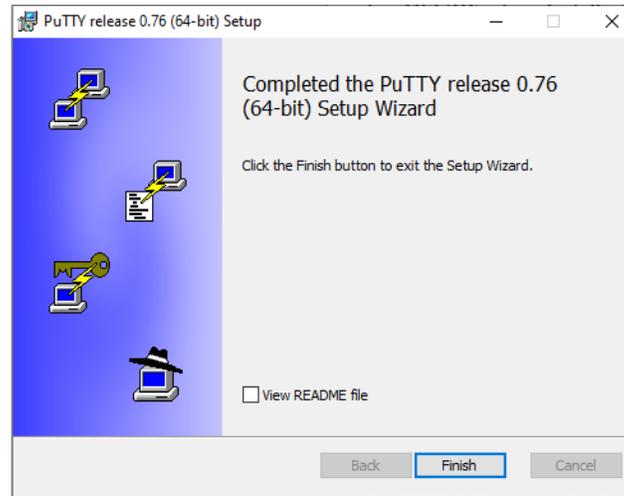
### b. Select Install location



### c. Turn on an extra feature wanted and install

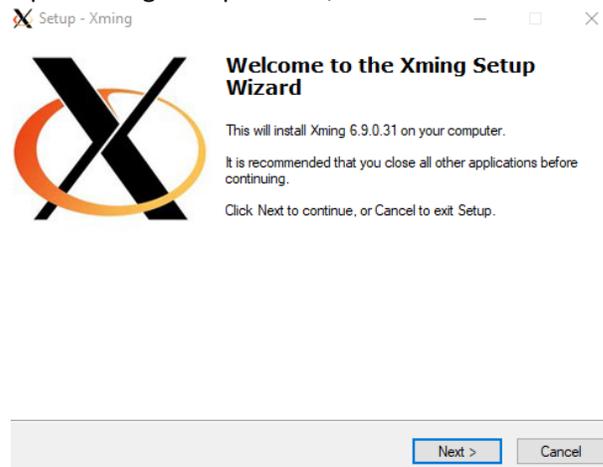


- d. Wait until it's done, and then turn off Read me, and close the installer.

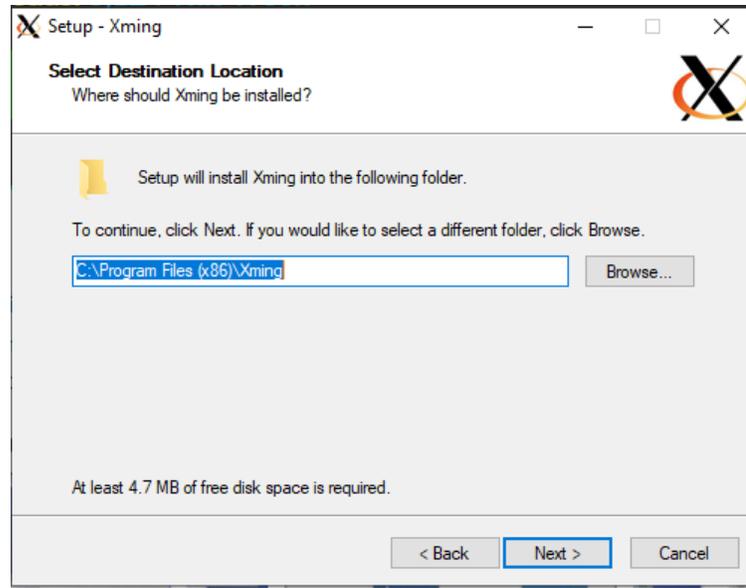


2. Install Xming X Server For Windows

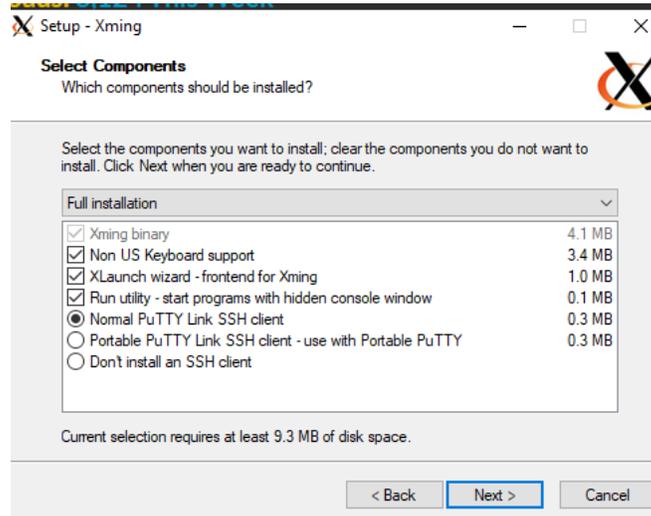
- a. Open Xming Set up Wizard, and click Next



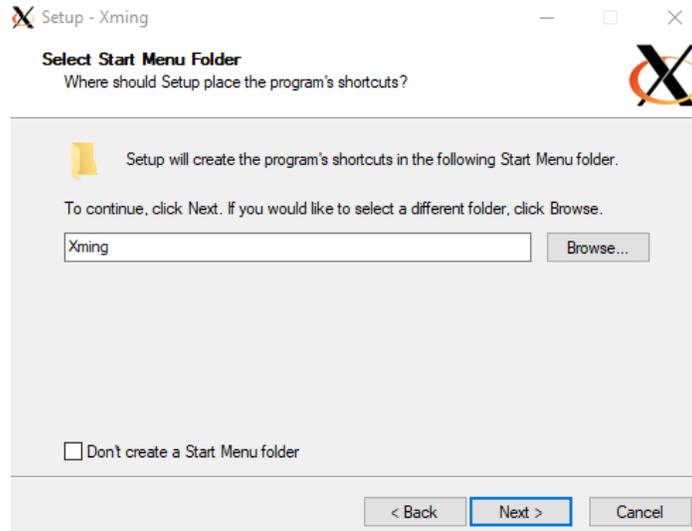
- b. Select the install location for Xming



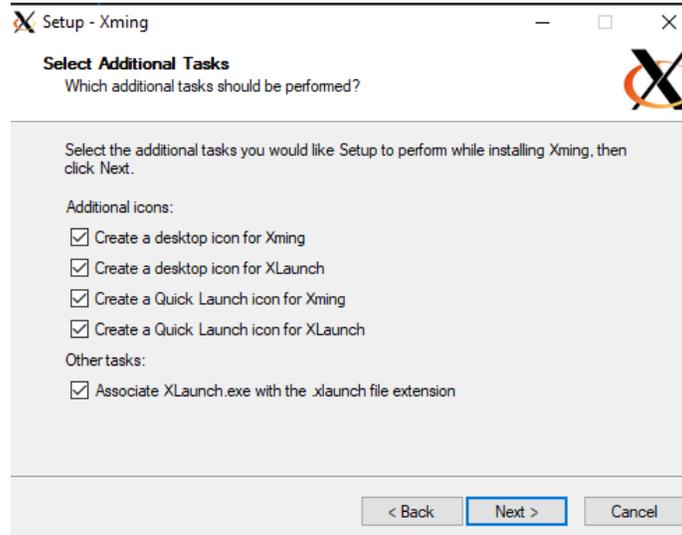
c. Leave Default Components selected



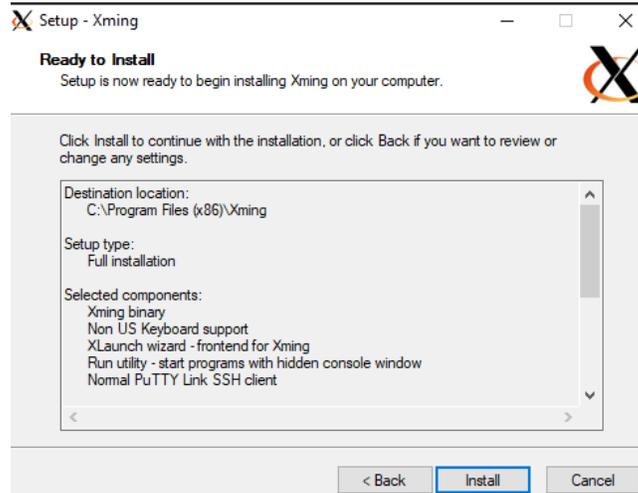
d. Select Start Menu Folder



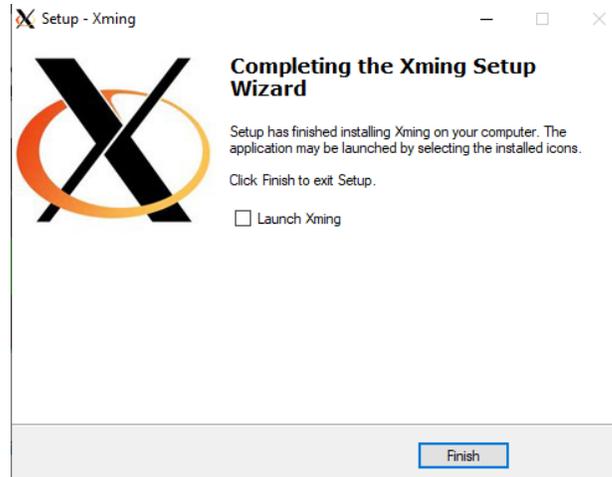
e. Enable additional icons if wanted



f. Confirm all changes and install

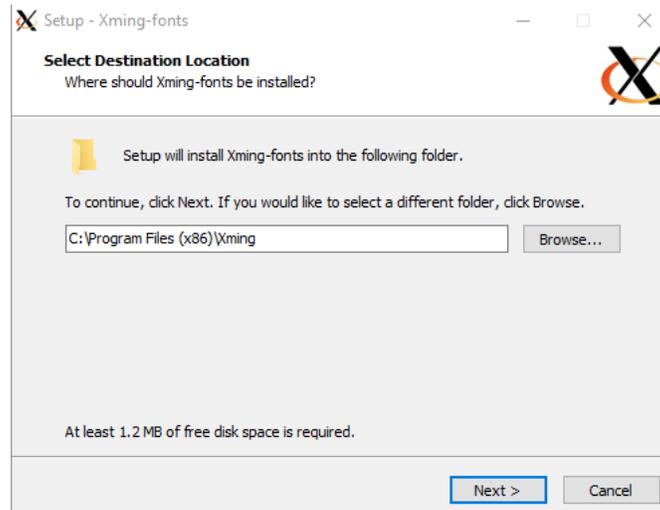


g. **IMPORTANT: Uncheck Launch Xming and click finish**

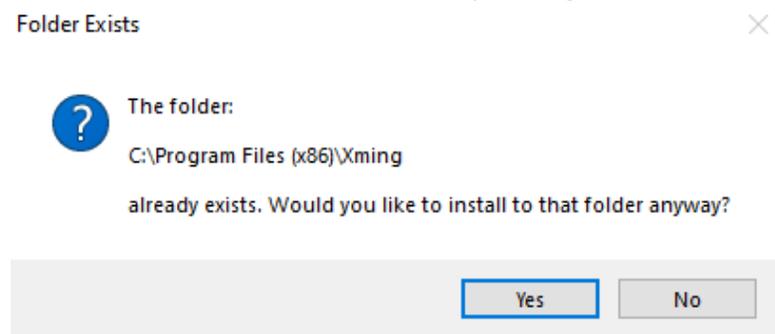


3. Install Xming-Fonts

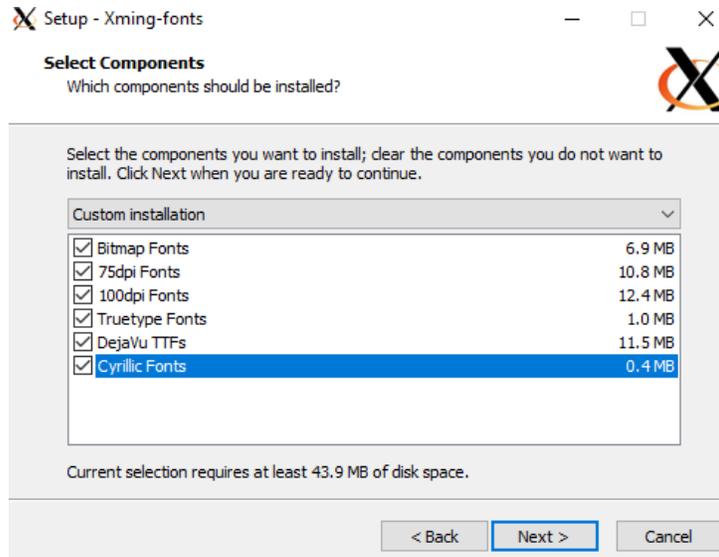
- a. Open Xming-Fonts installer, select the SAME location from Xming Server in step 2B



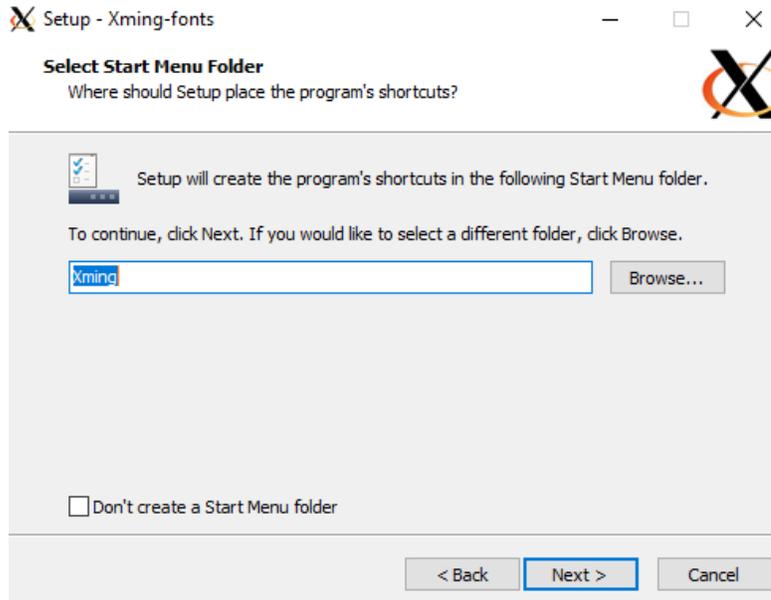
- b. Allow the install into the same folder by clicking Yes.



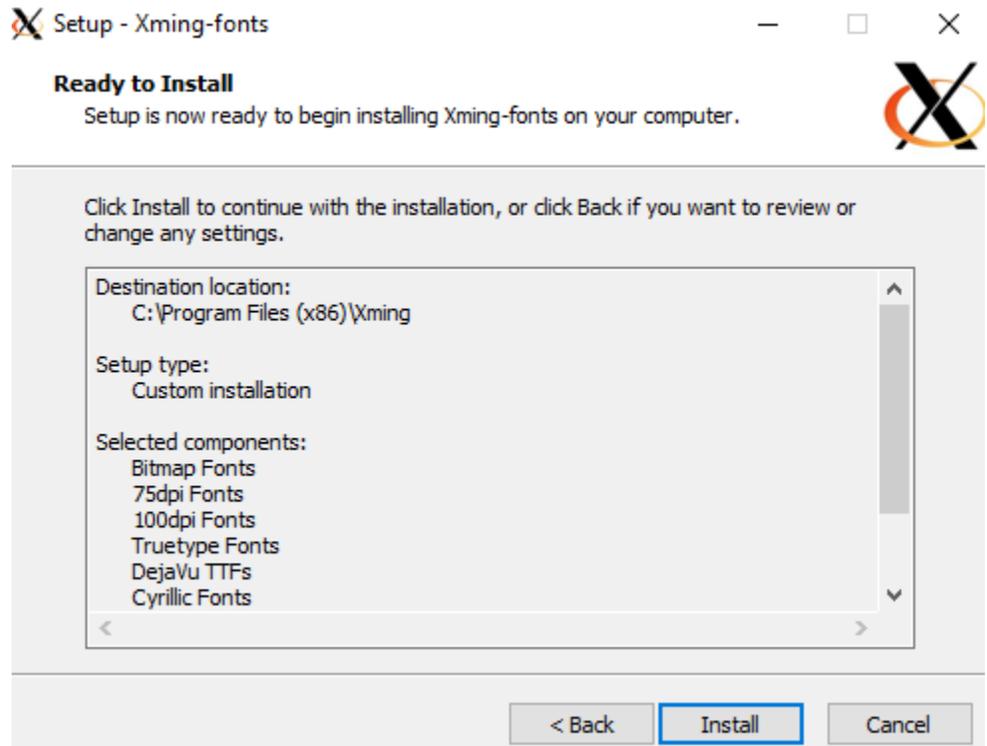
- c. Select ALL Fonts and Click Next



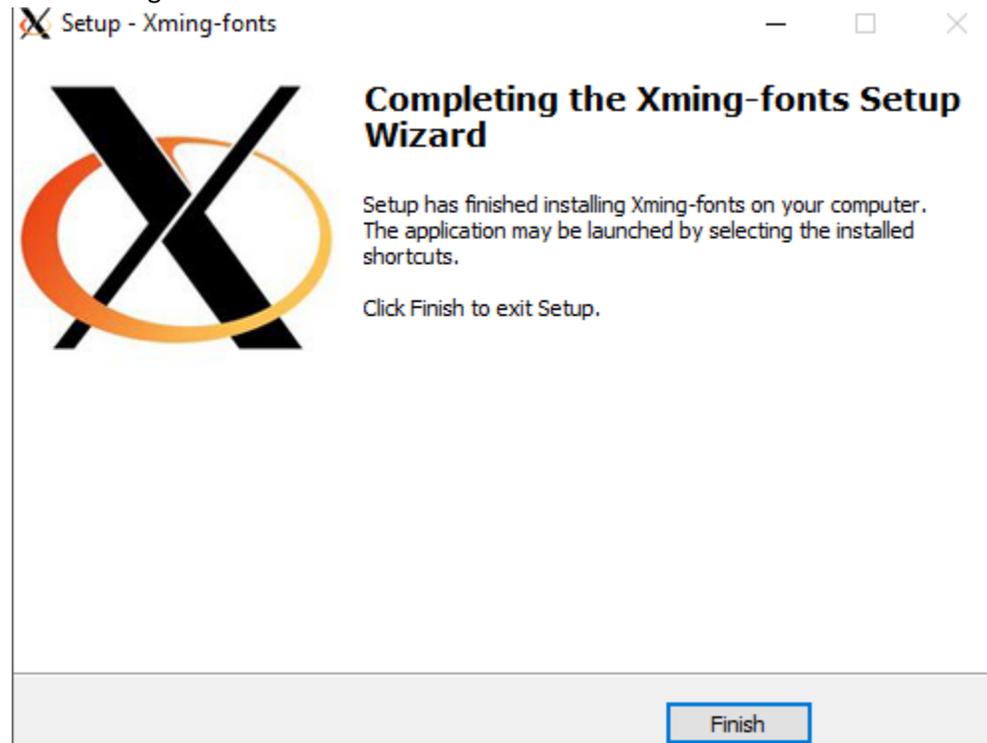
d. Select Folder Shortcut in start menu



e. Confirm install settings

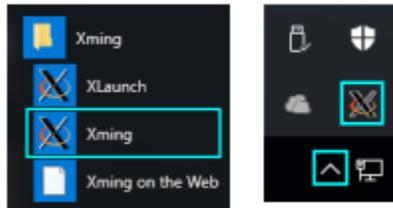


f. Finish Xming-Fonts Install

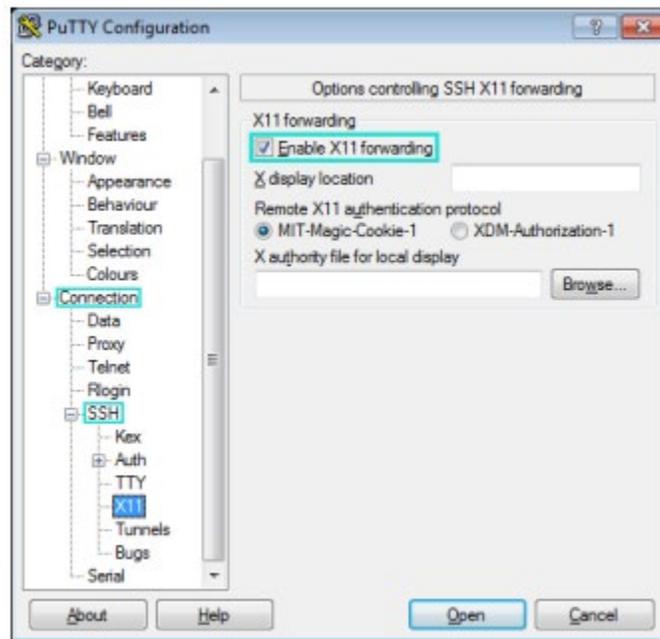


Using Xming for X11

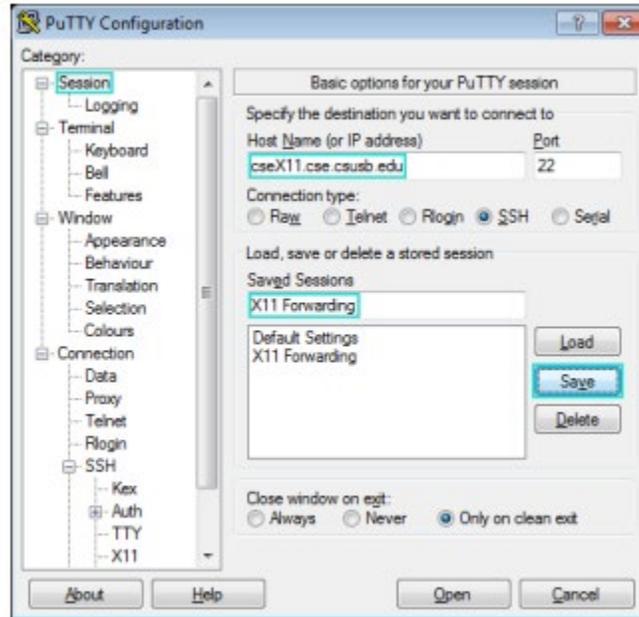
1. Start “Xming” from start menu, then you should see Xming icon on notification area.



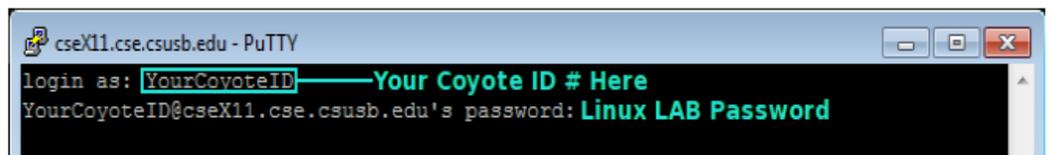
1. NOTE: If you did NOT uncheck Start Xming after install, you can right click the icon in the notification area and click Exit. This will ensure that Xming sees the new fonts installed.
2. Start PuTTY and connect to host cseX11.cse.csusb.edu with following configuration.
  1. From Category pane on left side, go to Connection → SSH → X11, then put check
  2. mark on “Enable X11 forwarding” option.



3. From Category pane on left side, go to Session, type in “cseX11.cse.csusb.edu” in Host Name input box. You can save the required session configuration by naming in saved session box, then click on “Save”.

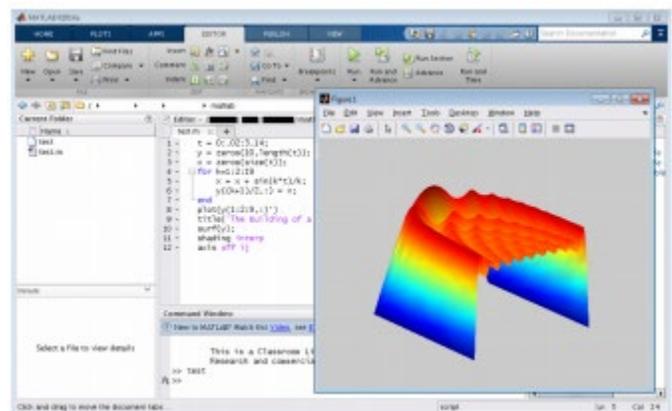


4. c) Click on “Open”, and type in your username (Coyote ID #), then your Coyote ID Password (Same as MyCoyote)



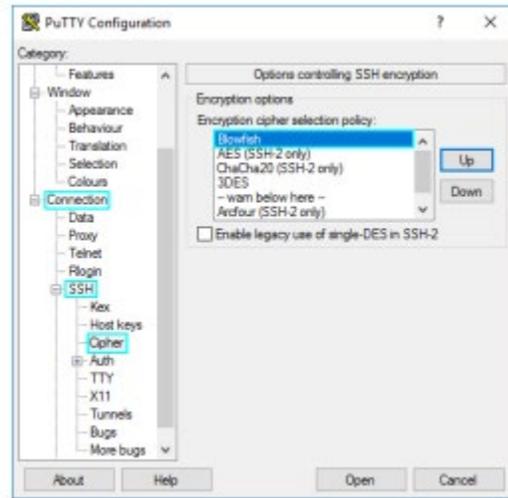
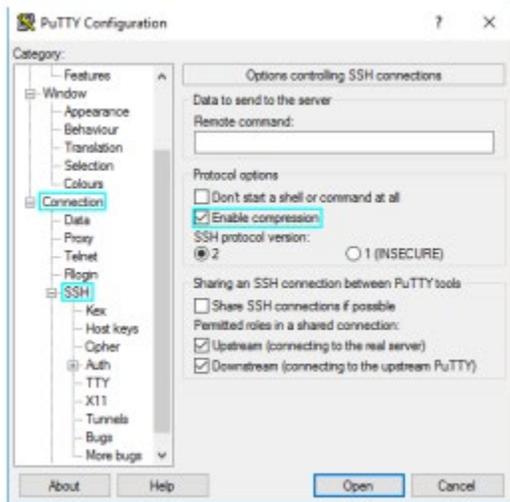
4. You can run graphical applications by running command in terminal.

- gedit
- CSE 202 graphical program
- matlab
- etc



- Additional Extra Tip

If you are experiencing slow response on graphical application, you can configure PuTTY by go to **Connection → SSH**, check on **“Enable compression”** and then go to **Connection → SSH → Cipher Connection → SSH** and move **“Blowfish”** to top of Encryption cipher selection policy. (See screenshot)



For Linux users:

1. Open Terminal

2. Type in the following command:

```
ssh -Y username@cseX11.cse.csusb.ed u
```

Note: For CSE 201/202 students, make you sure have the following package installed:

xfonts-75dpi (Ubuntu/mint/Debian Based Linux)

xorg-x11-fonts (Fedora/Scientific Linux/Red Hat Based Linux)

xorg-fonts-75dpi (Arch Linux)

For OS X 10.6.3 or later:

1. Install “XQuartz”

2. Run “Application > Utilities> Xquartz > Applications > Terminal”

3. Type: ssh -Y username@cseX11.cse.csusb.edu