

# CMSC 733, Computer Processing of Pictorial Information

## Instructions on using the server

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The Instructions on how to use the server for three different platforms are given in the next few sections. Each section talks about the the softwares you might need and the instructions.

### 1 Linux

This is our favorite OS and hence it is described first. `ssh` command comes built-in with most linux distros, if you do not have it - you need to install this. You can type the command `ssh -Y YourLoginName@cmsc733.cs.umd.edu`. `YourLoginName` is sent to you via ELMS/Canvas. `-Y` flag tells `ssh` that you want to forward your display using X11 forwarding. You might have to activate X11 forwarding if the display does not work. Now, you will be asked for your login password which is sent to you via ELMS/Canvas. Type your password and hit Enter. Then type `matlab` and hit enter. This should open the MATLAB GUI. You can use `scp` to copy files from your system to the server. If you don't like the command window, you can use a display forwarding software like Remmina (comes default with Ubuntu 16.04). In Remmina, click on new connection, Enter server name as `cmsc733.cs.umd.edu:3390`, the port number is very important. The username and password are the same as the one sent to you on ELMS/Canvas. Make the color depth as `True Color (24 bpp)` or else this might not work. Then open the `Terminal/Konsole` and type `matlab`, hit Enter to open MATLAB. Note that you can change your password by using the command `passwd` on the Terminal after logging in. A very easy way to copy files back and forth from the server is to use a free software called `FileZilla` which can be installed on Ubuntu using the command `sudo apt-get install filezilla`. After installation, open `FileZilla`. Host is `sftp://cmsc733.cs.umd.edu`, Port number is 22. The username and password are the same as the one sent to you on ELMS/Canvas.

## 2 Windows

In Windows, Remote Desktop Connection (RDP) comes built-in by default. In the computer field type `cmsc733.cs.umd.edu:3390` and hit connect. The username and password are the same as the one sent to you on ELMS/Canvas. Make the color depth as True Color (24 bpp) or else this might not work. Then open the Terminal/Konsole and type `matlab`, hit Enter to open MATLAB. Note that you can change your password by using the command `passwd` on the Terminal after logging in. An easy way to copy files back and forth the server is to use a program called WinSCP, it is free and can be downloaded from <https://winscp.net/eng/download.php>. After installation, open WinSCP. Make the file protocol as SFTP for secure file transfer protocol. Hostname is `cmsc733.cs.umd.edu`, Port number is 22. The username and password are the same as the one sent to you on ELMS/Canvas.

## 3 MacOS

In MacOS, you need to install any of the remote desktop clients. We have listed some here: Microsoft RDP can be downloaded from here <https://www.microsoft.com/en-us/download/details.aspx?id=24596>, CoRD can be downloaded from here <http://cord.sourceforge.net/>. The details are similar to that of Linux and Windows. Note that MacOS comes with ssh and you can use the same instructions as for Linux. A very easy way to copy files back and forth from the server is to use a free software called FileZilla which can be installed on MacOS from the following link [http://download.cnet.com/FileZilla-Client/3000-2160\\_4-10826495.html](http://download.cnet.com/FileZilla-Client/3000-2160_4-10826495.html). After installation, open FileZilla. Host is `sftp://cmsc733.cs.umd.edu`, Port number is 22. The username and password are the same as the one sent to you on ELMS/Canvas.

In case you have any issues, feel free to contact Nitin at [nitinsan+cmsc733@terpmail.umd.edu](mailto:nitinsan+cmsc733@terpmail.umd.edu).