

ECPS 203

Discussion

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Agenda

1. How to use the EECS servers
2. Assignment 1

Servers

1. `crystalcove.eecs.uci.edu`
2. `zuma.eecs.uci.edu`
3. `bondi.eecs.uci.edu`
4. `laguna.eecs.uci.edu`

Your code will be stored and run on the servers

Servers

How to connect to servers:

1. Mac OS, Linux


- Built-in terminal
- FileZilla

2. Windows

- Putty
- WinSCP

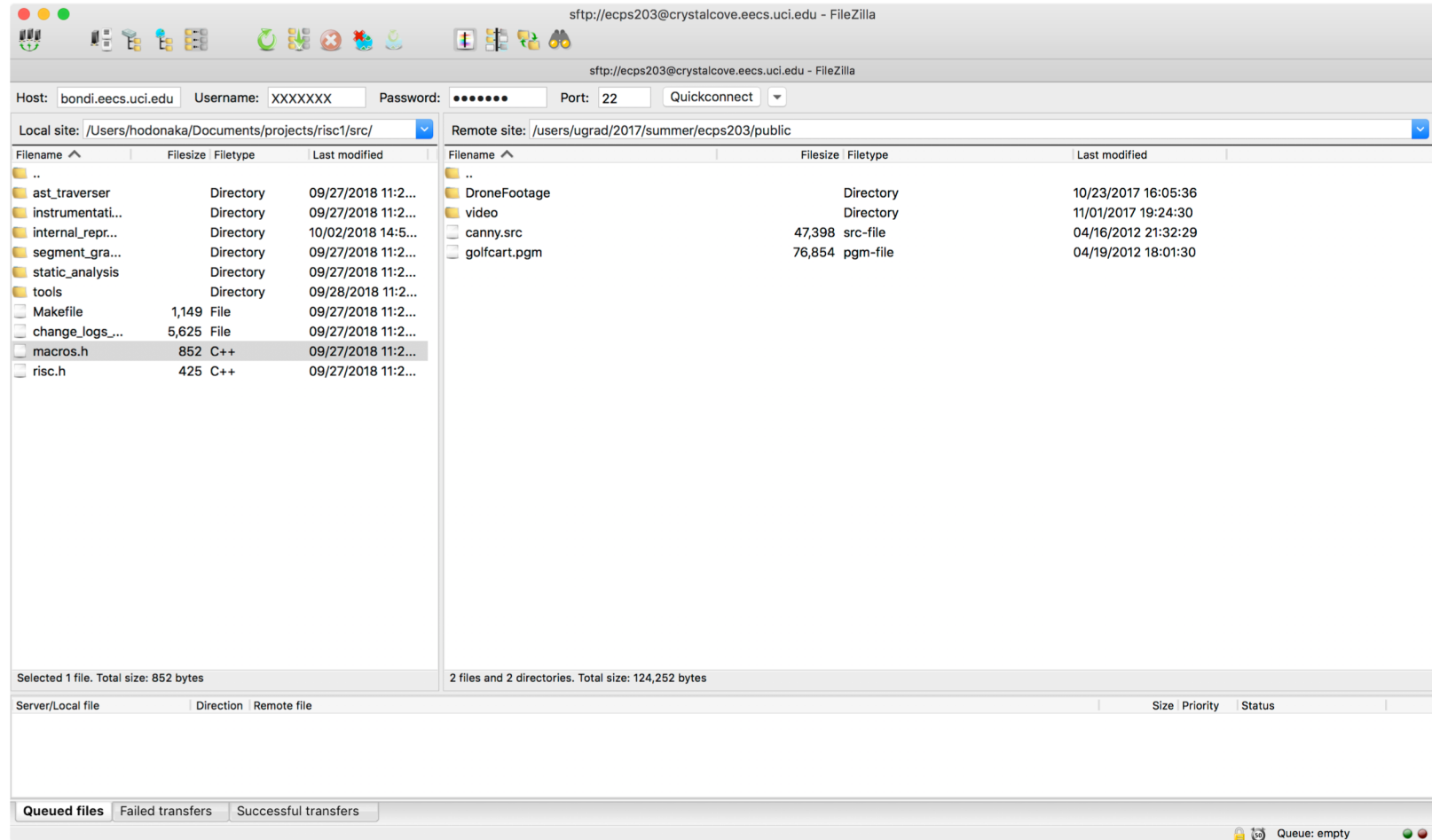
Mac OS

- Terminal
 - Applications -> Utilities -> Terminal
 - Do not omit **-Y**

```
hodonaka — ssh -Y zhongqc@laguna.eecs.uci.edu — 80x24
Last login: Thu Oct  4 15:42:56 on ttys001
[dhcp-v030-116:~ hodonaka$ ssh -Y zhongqc@laguna.eecs.uci.edu ]
The authenticity of host 'laguna.eecs.uci.edu (128.200.85.23)' can't be established.
RSA key fingerprint is SHA256: EiZ2xK5TbBJzD0jGvqL12i0LrxhpTINfNFTmQBfi2n4.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'laguna.eecs.uci.edu,128.200.85.23' (RSA) to the list
of known hosts.
zhongqc@laguna.eecs.uci.edu's password: 
```

Mac OS

- FileZilla



Host: bondi.eecs.uci.edu

Username: zhongqc

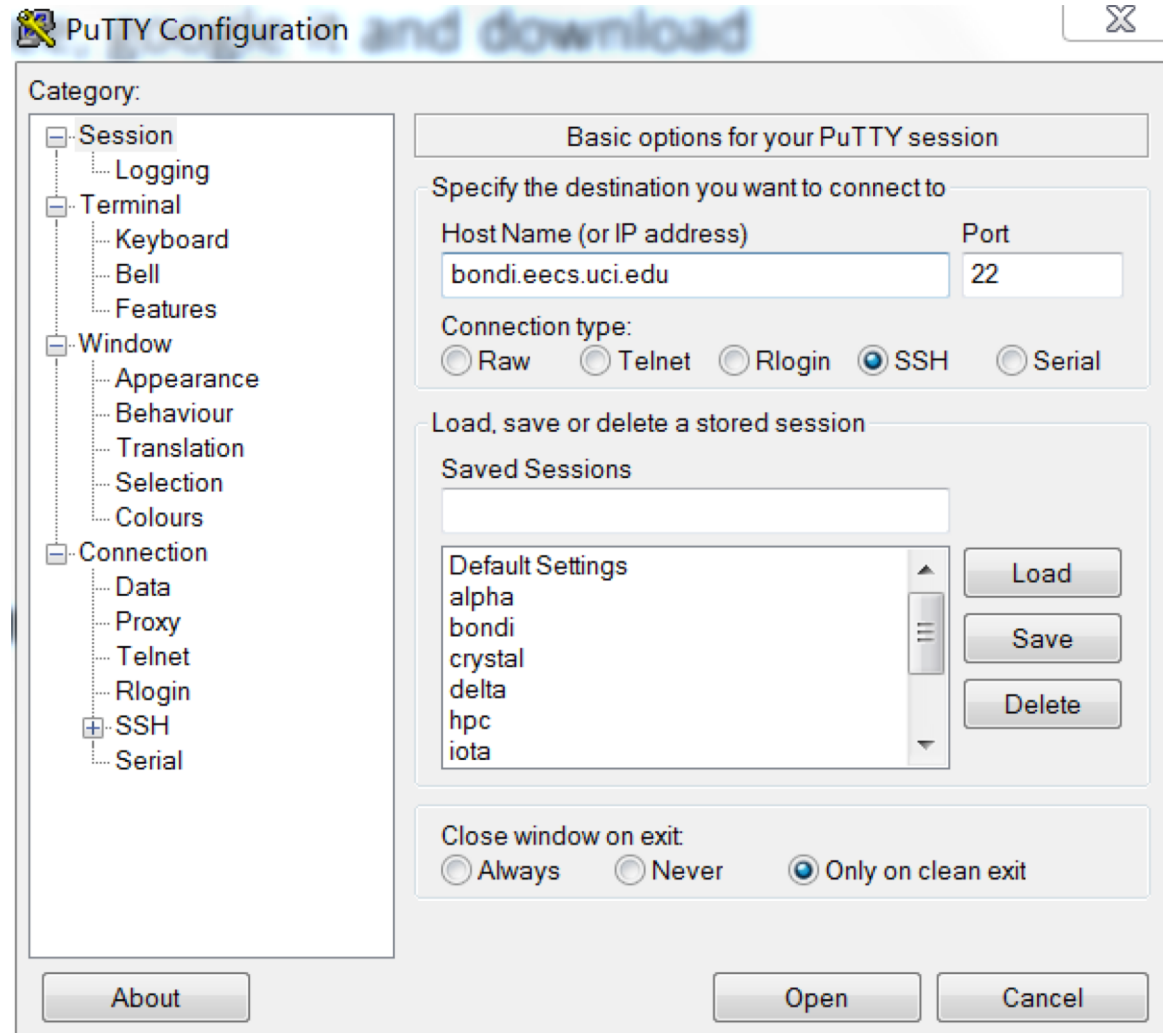
Password: Password

Port: 22

Quickconnect

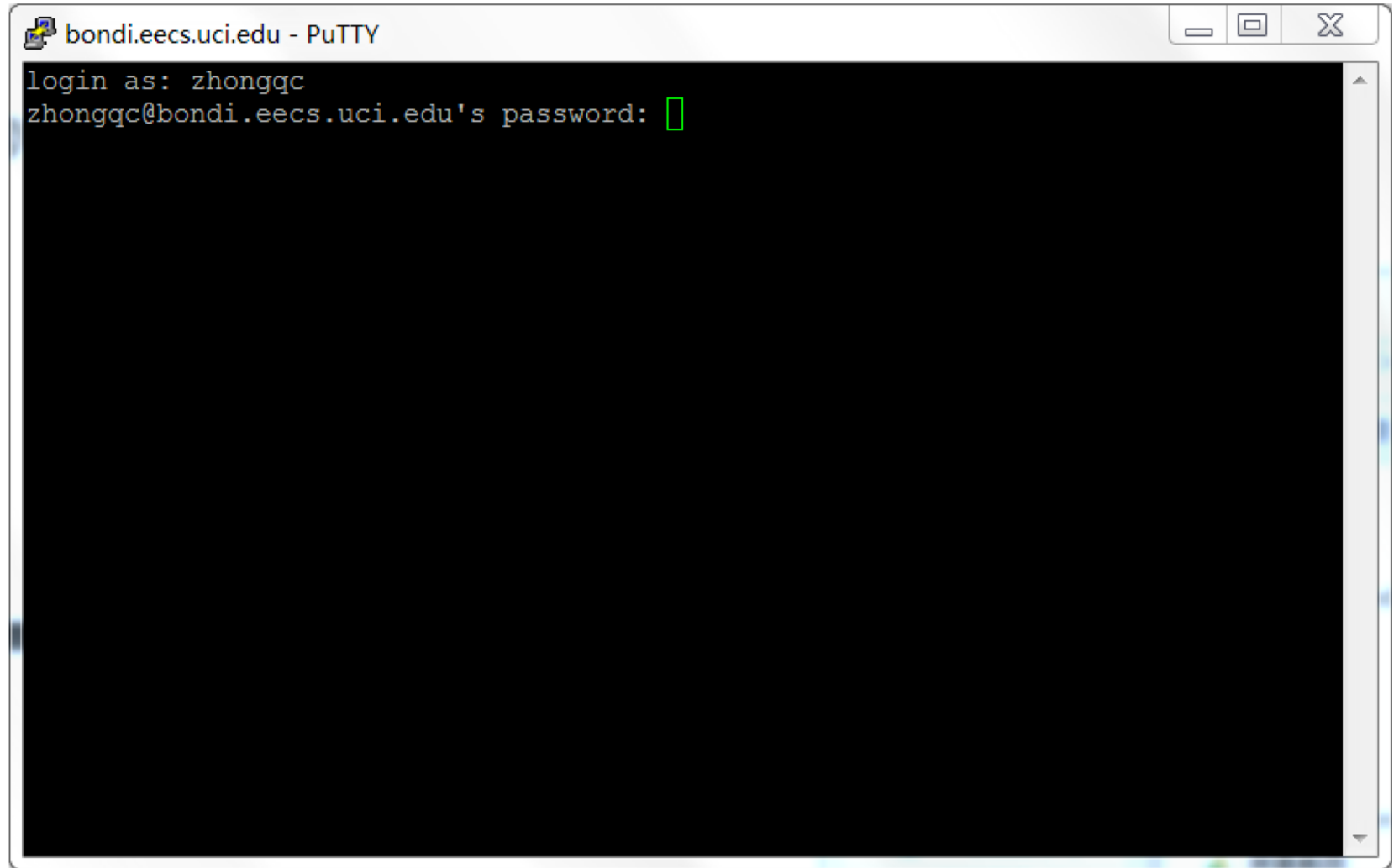
Windows

- Putty



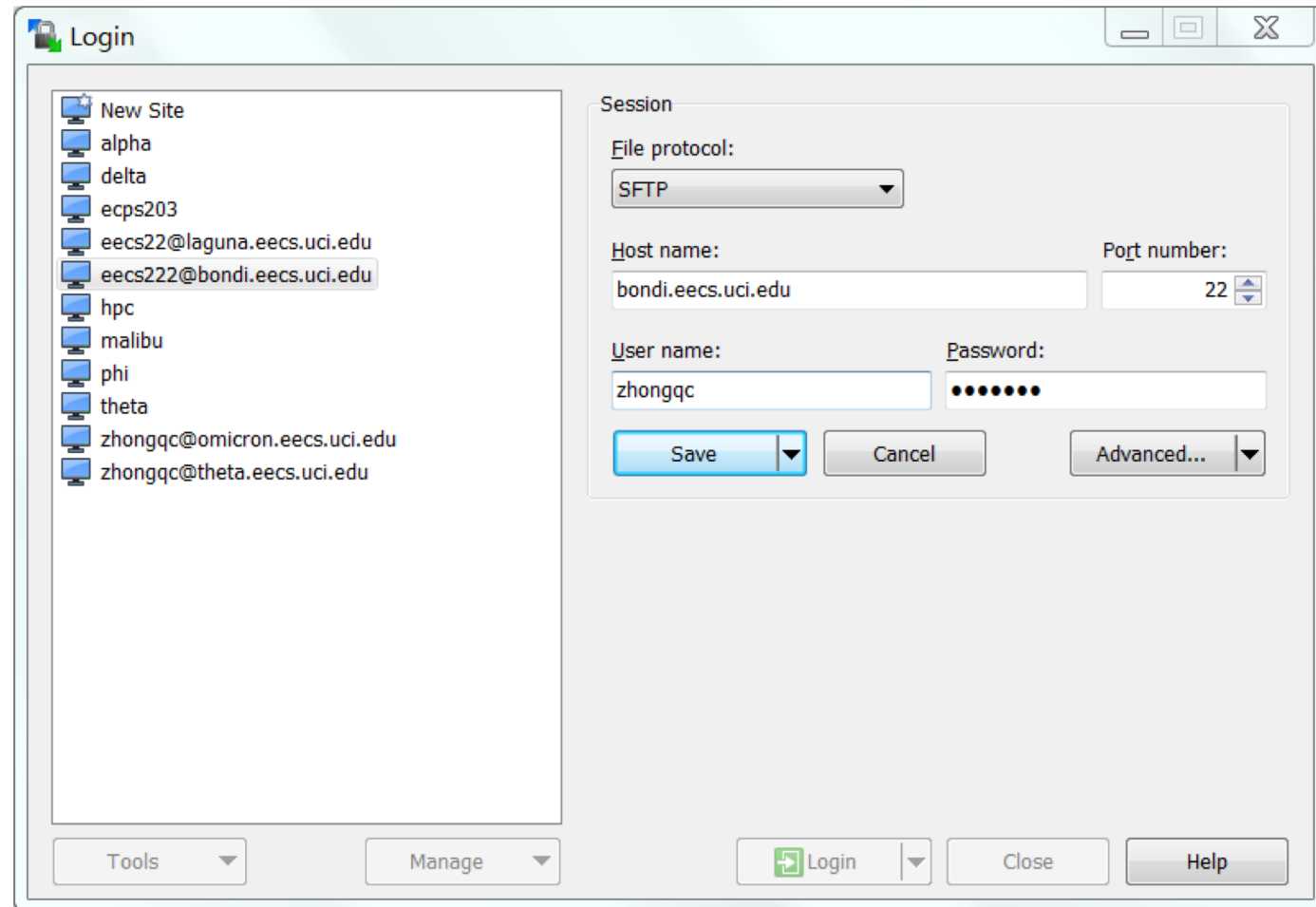
Windows

- Putty



Windows

- WinSCP



Windows

- WinSCP

The screenshot shows the WinSCP interface with the following details:

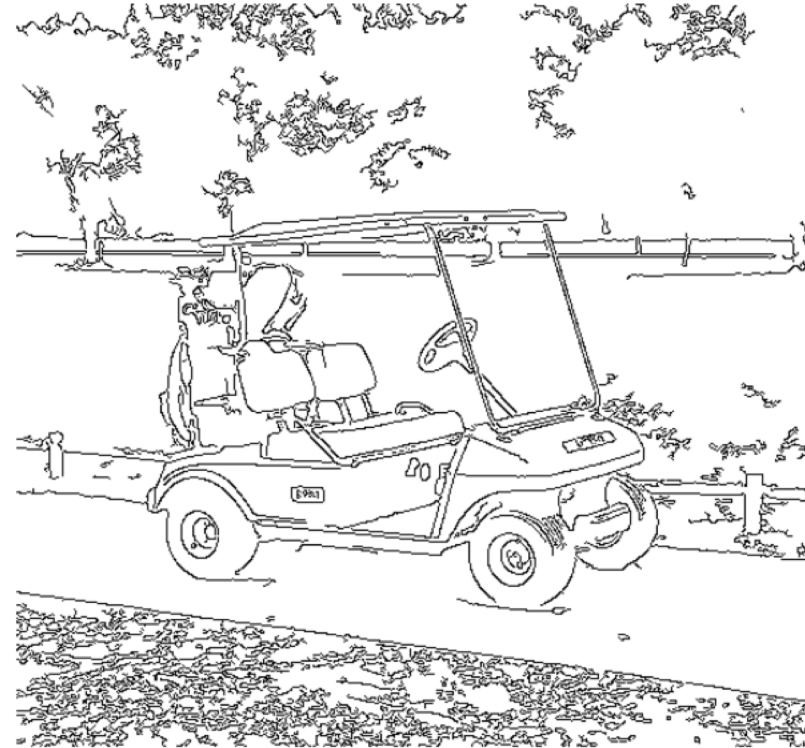
- Address:** /users/ugrad/2017/summer/ecps203/public
- File List:**

Name	Size	Changed	Rights	Owner
DroneFootage		2017/10/23 16:05:36	rw-r-xr-x	ecps203
video		2017/11/1 19:24:30	rw-r--r--	ecps203
canny.src	47 KB	2012/4/16 21:32:29	rw-r--r--	ecps203
golfcart.pgm	76 KB	2012/4/19 18:01:30	rw-r--r--	ecps203

The interface also shows a file tree on the left with the path: / > users > ugrad > 2017 > summer > ecps203 > public. The status bar at the bottom indicates 0 B of 121 KB in 0 of 4, SFTP-3, and a timer of 0:00:52.

Assignment 1

- Canny edge detector
- Implement it in C



Assignment 1

- Source code is available
- Your job:
 1. fix syntax errors
 2. compile with gcc
 3. get correct result

Assignment 1

- Edit the code on the server

- ❖ `vi canny.c`

- Compile the code

- ❖ `gcc canny.c -lm -o canny`

- Run your executable

- ❖ `./canny golfcart.pgm 0.6 0.3 0.8`

- Display the image

- ❖ `eog golfcart.pgm_s_0.60_l_0.30_h_0.80.pgm`

Assignment 1

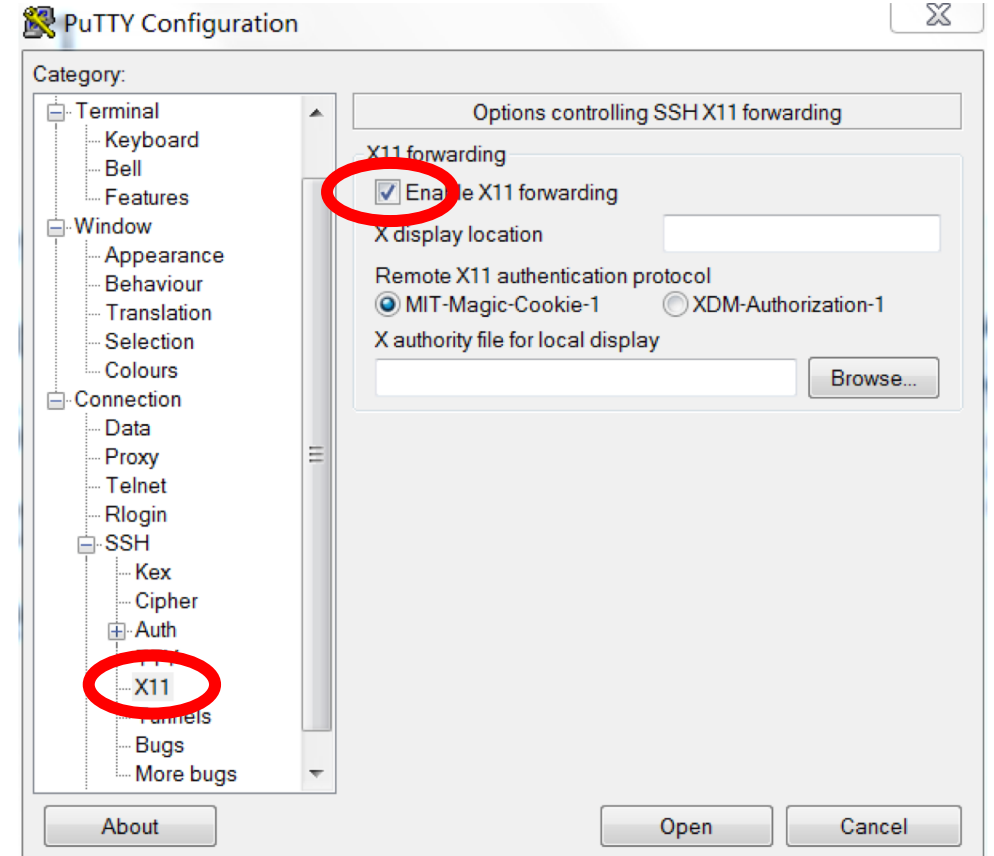
- For windows users to display the image
 1. download Xming
 2. turn on display in Putty



Xming X Server for Windows
X Window System Server for Windows
Brought to you by: [colinharrison](#)

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Assignment 1

- For Mac users, download Xquartz



- If regular terminal cannot open display, use xquartz terminal instead

Assignment 1

- Write down the function-call tree in a file, name it canny.txt
- The relations between functions
- For example:

main() → a()

a() → b()

```
void a () {  
    b ();  
}
```

```
int main () {  
    a ();  
}
```

Assignment 1

- Submission
- run the script in your command line: `~ecps203/bin/turnin.sh`