

# First Year Unix Seminar

## Working From Home

- Windows
  - putty ([www.chiark.greenend.org.uk/~sgtatham/putty/](http://www.chiark.greenend.org.uk/~sgtatham/putty/))
    - Provides ssh functionality.
  - cygwin ([www.cygwin.com/](http://www.cygwin.com/))
    - Provides a unix shell.
  - winscp ([winscp.net/](http://winscp.net/))
    - Provides gui for scp
  - filezilla ([filezilla-project.org/](http://filezilla-project.org/))
    - Is gui for copying files from many kinds of network file systems.
  - Connect to [cdf.utoronto.ca](http://cdf.utoronto.ca)
    - username: your cdf username
    - password: your cdf password
- \*nix
  - **ssh <username>@<host>**
    - Connect to a shell (command line) on host.
    - Use **ssh -X** to forward gui.
  - **scp <local file> <username>@<host>:<location>**
    - copy local file to location on host
    - use location = **~/** for your home directory
    - scp can also copy from remote to local and even remote to remote.  
The syntax is **scp <to> <from>** where to and from can be either a local file or a

## Basic Unix Commands

- **man <command>**
  - Get information about command.
  - Press q to quit.
  - Try **man man** to get more information about man.
- **apropos <keyword>**
  - Search for commands related to keyword.
- **ls**
  - list the contents of the current directory.
  - Use **ls -a** to show hidden (. files).
  - Use **ls -l** to show more information.
- **cd <dir>**
  - Change the working directory to dir.
  - Use **cd ..** to change to the parent directory.
- **cp <from> <to>**
  - copies file from to file to.

- Use **cp -r <from> <to>** to copy directories.
- **mv <from> <to>**
  - Move file or directory from to file or directory to.
  - It is also used to rename
  - There is no need for -r to move directories.
- **rm <file>**
  - Delete file.
  - Use **rm -r <dir>** to delete dir and all of its contents.
  - Use -f option to stop it from asking about every file.
- **quota**
  - Displays disk quota information.
- **cat <file>**
  - Print the file to the screen.
- **grep word file**
  - Search file for word.
- **nano <file>**
  - Edit file on the command line.

### If Things go Wrong

- **ps**
  - List processes.
  - Use **ps aux** to list all process.
  - Use **ps aux | grep <name>** to find process with a certain name.
- **kill <process id>**
  - Kill the process with the given process id.
  - Use **kill -9 <process id>** to *really* kill it.
- **xkill**
  - Then click on a window to kill it.
  - Right click to cancel.

### Printing

- **lpr -P<printer> <file>**
  - Prints single sided.
  - It can print pdf, post script(.ps) and text.
- **print -P<printer> <file>**
  - Prints double sided.
  - It can print pdf, post script(.ps) and text.
- **lpq -P<printer>**
  - Shows the printer queue.
- **lprm -P<printer> <job\_number>**
  - Removes a job from the queue.
  - You can remove other peoples jobs if they are a certain size but they can complain.
- **pquota**

- Tells you how many pages you have left.
- **pquota -i** will increase your quota based on your cs classes.

### Wireless Internet in Bahen Centre

- UTORwin
  - wep key: UToronto1home
  - Login with your UTORid and password
  - More information at:  
[http://library.vicu.utoronto.ca/infotech/wireless\\_internet.pdf](http://library.vicu.utoronto.ca/infotech/wireless_internet.pdf)
- cslab
  - wep key: Available at <https://www.cdf.toronto.edu/mobile/>
  - ssh to <your cdf>-cdf@wifi.cs.toronto.edu and leave the window open.
    - If you don't have putty go to <http://wifi.cs.toronto.edu> to get it.