











CS120 The Information Era

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SSH Client: Download MacSSH

- If you are on a Mac running OS X, follow these steps:
 - o Open a terminal window
 - Type **ssh euler.math.pacificu.edu –l login** where login is your euler login name
- You can also connect to the server via a Windows machine, but you will need to use an SSH Windows client. One free client SSH Windows program is Putty and it is available at:
 - o http://www.chiark.greenend.org.uk/~sgtatham/putty/

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UNIX Shells

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- UNIX Shells:
 - Collection of commands (and the means to execute them) that are available upon login
 - Your default login shell is tcsh, but there are many other shells available including csh, sh, zsh, and bash
 - Commands in the tcsh shell that we may use include ls, cd, mkdir, rm, rm -rf, rmdir, chmod, pico, cp, mv, and pwd. We'll explain the most important of these in the next few slides

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tcsh shell commands

- · Is This lists the contents of the current directory
- Is -I This lists the content of the current directory
- cd This changes the directory to you home directory
- cd.. This changes the directory to the "parent" directory of your present directory.
 - For example, if the present directory is your "Sites" directory, the command cd.. will change the directory to your home directory

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 pwd This gives the path on the server of your present directory

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chmod examples

- chmod 555 filename changes the permissions so that the owner, group, and world can only read and execute the file
- chmod 777 filename gives everyone read, write, and execute permissions
- chmod 755 filename gives the own read, write, and execute permission but the group and world only read and execute permissions
- NOTE: Our CGI scripts must have the permission tag set to 755

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A few more UNIX tips

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- Command Completion: Hit <TAB> to automatically complete files names
 - From your home directory try cd S then <TAB>
- The up and down arrow keys can be used to view the commands previously entered
- The UNIX help pages are accessible for any command by typing **man** followed by the command (so for example, type man ls)

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Simple CGI script

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- · Change your directory to your Sites folder
- Type pico helloperl.cgi

 Enter the following text in the window exactly as it appears: #!/usr/bin/perl

print "Content-type: text/html\n\n";
print "Hello Perl!";

- Write this file by pressing control and O, then enter, then exit by pressing control and X
- Change the permissions on this file to 755 (chmod)
- Type the following URL into a browser

o http://euler.math.pacificu.edu/cgi-bin/helloperl.cgi