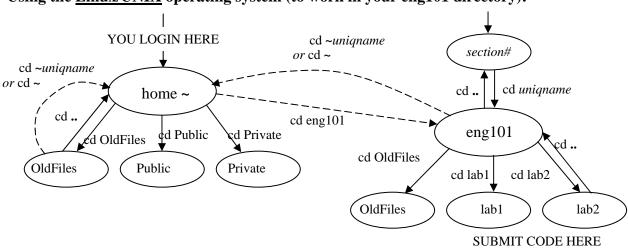
HOW TO Use Linux, Text-Edit, and More



Using the <u>Linux/UNIX</u> operating system (to work in your eng101 directory):

Figure 1. Diagram of the Linux/UNIX directory structure. The ovals represent directories and the arrows show where the cd commands take you. The dashed arrows represent links. Ovals underneath other ovals represent subdirectories whereas the ovals overhead represent parent directories.

- Start a terminal window by right-clicking on the desktop then select New Terminal. You will see a prompt, which is the name of your computer, like this: ruby%
- 2. To display the path of your working directory (or where you are), at the prompt type: ruby% pwd

Your home directory path should be:

/afs/engin.umich.edu/u/firstletter/second/uniqname

This is where you keep your personal (non-Eng101) files, up to 200Mb worth.

- 3. To change your working directory, type: ruby% cd Public
- 4. In this case we've changed to the Public directory. Again, type: ruby% pwd You should see something that looks like: /afs/engin.umich.edu/u/firstletter/second/uniqname/Public Anything in this directory can be accessed by anyone else.
 5. To make a web-accessible subdirectory (sometimes called a folder), type:

ruby% mkdir html

Note that Linux/UNIX is case-sensitive. The name html is different than HTML. The html directory in your Public directory can be accessed by anyone via the WWW.

 To list the contents of your working directory, Public, type: ruby% 1s

You should see your html subdirectory now created.

- 7. To change to your html subdirectory, type: ruby% cd html
- 8. To change back to your Public parent directory, type: ruby% cd ..

'..' refers to the folder which contains the current folder, up one level

Some useful Linux/UNIX commands:

pwd	prints path of working directory cp fr	om to	<u>cop</u> ies a file
ls	lists directory contents mv fr	om to	<u>m</u> oves a file
ls -l	lists long detailed directory contents rm na	me	<u>rem</u> oves a file
cd name	changes directory (into subdirectory) mkdir	name	<u>mak</u> es a <u>dir</u> ectory
cd	changes to parent directory rmdir	name	<u>rem</u> oves a <u>dir</u> ectory
cd ~	<u>c</u> hanges to your home <u>d</u> irectory comma	ndhelp	shows options <u>help</u>

Using Matlab

1. Start up matlab:

ruby% matlab

- Type the following in the matlab command window: x = 0 : 0.2 : 10 y = sin(x) plot(x,y)
 Once you have that working, type the following: diary mywork.txt x = 0 : 0.2 : 10 y = sin(x)
 - diary off

plot(x,y)

ls

You should notice that a new file called mywork.txt was created

Using the <u>enscript</u>, <u>lpq</u>, and <u>lprm</u> print commands (to print your text files and codes):

To print a text file, typically change to the directory that your file is in, then type: ruby% enscript options -Pprintername path/filename ex: ruby% enscript -Pb507pierpont mywork.txt (simplest usage) or ex: ruby% enscript -2Gr -Pb507pierpont mywork.txt (with 2-column, fancy header, landscape formatting)

Printer names can be found on or near the physical printer in any CAEN lab like: b505pierpont, b507pierpont, and b521pierpont.

You may also use the non-formatting standard lpr print command instead. ex: ruby% lpr -Pb507pierpont mywork.txt

To check the print queue, type: **ruby% lpq -P**printername ex:**ruby% lpq -Pb507pierpont**

To remove your own print job from the print queue, type: **ruby% lprm -P**printername jobnumber ex: **ruby% lprm -Pb507pierpont 30**

Using the <u>NEdit</u> graphical text editor (to write text files and C++ source codes):

To change back to your home folder, just type: 1. ruby% cd This always goes to your personal home folder 2. You also have a class directory. To get to this type: ruby% cd eng101 The professors and GSIs can read anything in this folder. Work on class programs should be done here so they can help you! This is not in your home folder – use pwd to check that out. The eng101 folder in your home directory is really a 'link' to this space. Go back to your html directory 3. ruby% cd ~/Public/html ~ is a shortcut meaning your home directory. So 'cd ~' is the same thing as just 'cd' Start up the NEdit text editor. 4. ruby% nedit index.html & The & (ampersand) allows NEdit to run in the background, detached from the terminal. Other graphical text editors you may try are **kwrite**, and **gedit**. 5. Use the menu with the mouse to open, edit, and save your text.

```
<html>
<head><title>My Site</title></head>
<body>
<hl>My Name</hl>
<a href="resume.html">My resume</a>
</body></html>
```

6. Make sure you save your file as index.html. Now open up a browser, and point to http://www-personal.engin.umich.edu/~uniqname

Some useful HTML/XHTML in addition to the basic <html>, <head>, <title>, <body>:

text <u>text</u> (option:) 		<i>text</i> text <h1>text</h1> <h6>text</h6> & <	<u>i</u> talics <u>p</u> aragraph <u>h</u> eader size <u>1</u> <u>h</u> eader size <u>6</u> <u>ampersand sumbol &</u> <u>l</u> ess <u>t</u> han sumbol < <u>a</u> nchor name/label anchor link to label
<pre> </pre>			

Note, some HTML element end tags are optional (and , after name anchor). XHTML is a variation of HTML, and XHTML requires all element tags be closed with an end tag, or a trailing backslash. Therefore a line break in XHTML can be written as
.