

Lesson 03: Recap of CLI and Environment (W01D3)

Balboa High School

Michael Ferraro

<mferraro@balstaff.org>

Do Now

The commands below represent a series of events — a story of files and directories. Predict what that story is and type it into `gedit`. **Afterward**, try running these commands and see if you were right.

```
student@rm124-01:~$ cd /tmp
student@rm124-01:/tmp$ touch papaya.log
student@rm124-01:/tmp$ mkdir pack
student@rm124-01:/tmp$ ls -l p*
student@rm124-01:/tmp$ ls -l p*og
student@rm124-01:/tmp$ rm papaya
student@rm124-01:/tmp$ mv papaya.log Papaya.log
student@rm124-01:/tmp$ cp Papaya.log Parsnip.log
student@rm124-01:/tmp$ mv P*.log pack
student@rm124-01:/tmp$ rmdir pack
```

Aim

Students will recap yesterday's CLI lesson and learn about environment variables.

Recap of Yesterday's CLI Lesson

- Commands: `ls`, `cp`, `mv`, `rm`, `rmdir`, `touch`
- Special directory entries: `.` and `..`
- Multiple filenames vs. wildcards

L02 HW Due Before Next Class

- Remember: HW due before next class! See last slide of L02.
- Stuck? Start by considering how you'd use Nautilus to recreate this file/directory tree:

```
tree ~/L02-HW
```

```
/home/student/L02-HW/  
├── apples.txt  
├── bananas.txt  
└── Cars  
    ├── Chevy  
    └── Toyota  
        └── Camry.png
```

```
3 directories, 3 files
```

Environment Variables

Live demo of...

- `env` command
- What's a *variable* in computing?
- Printing variables' values via `echo`
- `PATH` variable

Same Ideas, Another OS

- The CLI and environment variables are common across operating systems
- Let's reboot our workstations into Windows XP...
- `set`, `%` signs, system-wide environment variables

≈L02 HW in Windows

Let's create this tree structure using the Windows Command Prompt:

```
----HW
  |--apcs
  |   |-- L01
  |   |-- L02
  |       |--HW.txt
  |--calc
  |--econ
```

Task	Linux	Windows
show files/dirs	ls	dir
change dir	cd	cd
make dir	mkdir	mkdir or md
rename	mv	ren
create empty file	touch	echo. > filename.xyz

HW

- Finish the L02 HW, email solution before next class.
- Signed syllabus acknowledgment form (last page of syllabus) due next class!