COE 322: Unix Review

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Basic stuff: 1s, touch, man

- List files command: ls
 - \circ useful options: -1, -a, -1 or in any combination
 - \$ ls -la mynewfile
 - This command, like many, has tons of options:
 - \$ ls --help
- Create or touch a file. touch also updates file access time touch mynewfile, then ls again.
- Use the man command to explore options for other commands:
 - \$ man ls
 - \$ man touch



More Basic Stuff: cp, mv, rm

- Copy: cp file1 file2
- Do this, check that it's indeed a copy.
- Rename or 'move': mv file1 file2
- Confirm that the original file doesn't exist any more.
- Remove:

rm myfile This is irrevocable!



Displaying File Contents

Display the contents of a file with cat:

```
$ cat myfile
```

Other file display utilities: less, more, head, tail

```
$ less bigfile
$ more bigfile
$ head bigfile
$ tail myfile
```

Explore options:

```
man head; head -n 5 yourfile
```

Put something in a file:

```
cat > myfile
end input with Control-D.
```



Directories

• Make a subdirectory 'folder': mkdir newdir

Check where you are (print working directory):
 pwd

Change directories:

cd newdir

Back to your home directory:

cd (no arguments) or cd ~



Paths

A path is a location of a file in a directory structure.

\$ ls \$HOME/newuser/myfile

The path to myfile is: \$HOME/newuser/myfile

- Relative path: does not start with slash
- Absolute path (such as pwd output): starts at root



More paths

- Path to your home directory: tilde cd ~
- Going out of a directory: cd . .
- You can use this in paths:

```
ls newdir/subdir1/../subdir2
```

Exercise: copy the lorem ipsum file from the repoto to a new directory.



Homework: due next Tuesday

From your textbook, do review exercises:

- Looping: Exercise 6.12
- Functions: Exercise 7.5
- Arrays: Exercise 10.8

Place all three source code files into a single directory and submit:

\$ coe_catchup mydir

