Shell Basics

```
z shell prompt
user@host~:%
bash prompt
host:~user$
End the session
exit
[CTRL D]
Interrupt a process
[CTRL C]
Clear the screen (hides but does not delete history)
clear
[CTRL L]
Display previously used commands
history
Autocomplete a command, file, or directory name
[TAB]
Access previously used command
[UP ARROW] and [DOWN ARROW]
Jump to beginning of line
[CTRL A]
Jump to end of line
[CTRL E]
Delete from cursor to end of line
[CTRL K]
Delete one word backwards
[CTRL W]
```

Navigating Directories

Display working directory pwd

- ~ A shortcut for the home directory
 ~/dir2
- . A shortcut for the working directory

Change working directory (absolute path) cd /dir1/dir2

Change working directory (relative path from dir1) cd dir2

Change working directory (to home directory) cd

Change working directory (to home directory) cd ~

Change **working directory** (to parent directory) cd . .

Change working directory (to previous working directory) ad -

List Directory Contents

Note: All directories and files can be referred to by **path** or by **name**. By default, the working directory will be shown if no path is given.

List contents of working directory

ls

List contents of directory (absolute path)

ls /Users/codey/Documents

List all contents of directory (includes hidden files)

ls -a directory-name

List contents of directory (in long format)

ls -1 directory-name

List *all* contents of directory (in long format)

ls -la directory-name

List *all* contents of directory (in reverse order)

ls -r

Create Files

Note: Files can be referred to by path or by name.

Update modification timestamp of (with file name)

touch file-name

Create a file (if the file does not exist)

touch file-name

Display file information (with file name)

file file-name

Create and open a file with the text editor **vim**

vim file-name

Displaying Files

Display contents of **file1** cat file1

Display contents of file1 and file2 cat file1 file2

Display first 10 lines of file1 head file1

Display first 5 lines of **file1** head -n 5 file1

Display *last* 10 lines of **file1** tail file1

Display *last* 5 lines of **file1** tail -n 5 file1

Display contents of **file1** with navigation options less file1

Shortcuts for less

Scroll with: [PAGEUP] [PAGEDOWN] [UP ARROW] [DOWN ARROW]

h help g top file /keyword search for keyword
q quit G end of file

Redirection

Append output to end file (does not overwrite)

>>

Overwrite file with output

>

Copying files

Note: If a file exists, it will be overwritten. Use options to set desired behavior.

Copy the contents of file1 to file2

cp file1 file2

Copy the contents of file1 to file2 and show file names as they are copied

cp -v file1 file2

Copy the contents of **file1** to **file2** but do not overwrite **file2** if it exists

cp -n file1 file2

Copy the contents of ${\it file 1}$ to ${\it file 2}$ and display confirmation to overwrite ${\it file 2}$ if it exists

cp -i file1 file2

Moving and renaming files

Move a file to a specified directory (by name or path)

mv file-name directory-name/

Rename file1 to file2

mv file1 file2

Remove a file

rm file-name

Remove a file with confirmation prompt

rm -i file-name

Remove a file without confirmation prompt

rm -f file-name

Remove files recursively (used to remove all contents of a directory)

rm -r file-name [-R may also be used]

Creating directories

Note: Files can be referred to by **path** or by **name**. By default, directories will be created in the **working directory**.

Create a directory mkdir dir1

Create multiple directories mkdir dirA dirB dirC

Create a directory and its intermediate directories mkdir -p /dir1/dir2/dir3

Create directories and list them mkdir -v dirA dirB

Removing Directories

Remove a directory rmdir directory-name

Remove directories and list them rmdir -v dirA dirB

Remove directories using **rm** (use -**r** to do this recursively) **rm** -**r** dirA