STEP BY STEP WITH NO STEP SKIPPED

Who am I?

> whoami

#### **Become root:**

sudo -I (Now you can do anything on your computer including deleting important files, etc)

Back to the safe user:

> su devisland

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#### Where am I?

> pwd

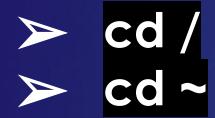
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#### Move to a directory?

- cd directory\_name
- > cd full\_directory\_path

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#### Move to root directory



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### Move up one directory



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#### Move to relative path

> cd ../../directory

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#### Create a directory named nodecourse:

> mkdir nodecourse

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List elements inside the Node directory

if you run the command inside Node:

- - Otherwise:
- Is /Users/devisland/Desktop/Node

#### Remove the directory named nodecourse:

- > man rm
- rmdir nodecourse (works only with an empty directory)
- > rm -rf nodecourse (remove the directory and its contents)

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Create a file app.js

> touch app.js

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#### check permissions of a file

```
(u-> user, g-> group, o->other)
(r-> read, w-> write, x-> execute)
>> ls -l app.js
```

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add x permission to group

> chmod g+x app.js

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remove w and x permissions to group and other

> chmod go-wx app.js

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#### Permissions using numbers:

 $x \rightarrow 1, w \rightarrow 2, r \rightarrow 4$ 

Ex: xw->3

Number	r	W	X
0	No	No	No
1	No	No	Yes
2	No	Yes	No
3	No	Yes	Yes
4	Yes	No	No
5	Yes	No	Yes
6	Yes	Yes	No
7	Yes	Yes	Yes

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#### **Example:**

## > chmod 751 app.js

Number	r	W	X
0	No	No	No
1	No	No	Yes
2	No	Yes	No
3	No	Yes	Yes
4	Yes	No	No
5	Yes	No	Yes
6	Yes	Yes	No
7	Yes	Yes	Yes

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Create a copy app2.js of file app.js

> cp app.js app2.js

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Create a copy app3.js of file ~/app.js

> cp ~/app.js app3.js

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#### Remove app.js

> rm -f app.js (-f to avoid the confirmation prompt)

move app.js to js folder (works with directories too)

- > mkdir js
- > mv app.js js/script.js

Or

mv app.js js/

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rename app.js server.js

mv app.js server.js

## Create a copy of directory js

- cp -r js js2 improved version: preserves file attributes and copies hidden files too
- > cp -a js/. js2

You can also use full paths cp—a ~/Users/devisland/Desktop/js/. js2

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#### overwrite into app.js

>> echo "console.log('hi');" > app.js

### Append to app.js

echo "console.log('hello');" >> app.js

#### read app.js

- > cat app.js (add –n to number output lines)
- > vim app.js

read unique lines (no duplicates)

> uniq app.js

#### Print first 3 lines of app.js

> head -3 app.js

Print last 3 lines of app.js

> tail -3 app.js

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Print row 3 of app.js

> head -3 app.js | tail -1

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Print last 20 lines of your bash history

> history | tail -20

# look for lines including the word 'hello' inside app.js

- grep "hello" app.js
- ✓ Add -i to make the search case insensitive
- Add -n to display line numbers
- Add --color to highlight matching words
- ✓ Add –v to look for lines excluding the word

look for first two lines including the word 'hello' inside app.js

grep -m 2 "hello" app.js

**Another way:** 

cat app.js | grep -m2 "hello"

look for lines including the word 'hello' inside files ending .js

grep "hello" \*.js

look for lines including the pattern "h\*o" inside app.js

grep "h\*o" app.js

look for "hello" recursively inside files located inside the folder Node

If you run the command inside the folder Node

grep -r "hello" "."

look for "hello" recursively inside files located inside the folder Node and return file names instead of lines

If you run the command inside the folder Node

grep -rl "hello" "."

look for lines containing both "hello" and "console" inside app.js

grep "hello" app.js | grep "console"

look for lines containing "hello" or "hi" inside app.js

egrep "hello | console" app.js

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look for lines containing "hello" but not containing "console" inside app.js

grep "hello" app.js | grep -v "console"

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Look recursively for files (exclude folders) named app\* inside the folder Node

If you run the command inside Node > find . –name "app\*" –type f

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# Look recursively for folders named app\* inside the folder Node

If you run the command inside Node

➤ find . –name "app\*" –type d

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Look recursively for folders named app\* inside the folder Node and remove them

If you run the command inside Node

Find . –name "app\*" –type d –exec rm –rf
"\O" \.

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Get the size of the folder Node

If you run the command inside Node > du -ch . | grep total

Find in which location an executable file is located:

> which node

Find in which location an executable file is located:

> which node

Replace all occurrences of "hi" in app.js with "hi there"

sed –i.backup 's/hi/hi there/g' app.js (creates a backup file app.js.backup)

#### Download a file from the internet

## First Install wget using Homebrew:

- ruby -e "\$(curl -fsSL
  https://raw.githubusercontent.com/Homebrew/install/m
  aster/install)" < /dev/null 2> /dev/null
- brew install wget

#### **Then**

wget https://cdn.pixabay.com/photo/2015/12/01/20/28/road-1072823\_1280.jpg

#### Create a bash script and run it:

Create a file run, make it executable, write bash code and execute:

- > touch run
- > chmod +x run
- > ./run