

# CSC209 Week 1 Notes

Hyungmo Gu

May 8, 2020

## The Unix Command Line

- cat

- *cat hello* : reads file

```
1 >>> cat hello
2 Hello World!
3
```

- *cat hello1 > hello2* : transfer contents from file *hello1* to *hello2*

```
1 >>> cat hello > hello1
2 >>> cat hello1
3 Hello World!
4
```

- \* *hello2* created if doesn't exist

- rm

- *-i* in *rm -i* : creates prompt

- *-r* in *rm -r* : removes files recursively

- *-f* in *rm -r -f* : suppresses prompt (also removes files recursively).

Don't use *-f* in *rm -r -f* unnecessary.

- alias

- A shell alias is a shortcut to reference a command

- avoids typing long commands

```
1 >>> alias rm='rm -i'
2 >>> rm hello
3 remove hello?
4
```

- *unalias* - remove alias

# Software Tools Part 1 of 2

- Software Tool Principles
  1. Does one thing well
  2. Are small
  3. Expect the output of every program to become the input of another
  4. Program inputs easy to generate or type
    - i.e. [NO]: binary input type.
  5. Use regular expressions for all pattern matching