

Jordan Boyd
PHY 494
Spring 2016
HW 1

1.1

- a. The *cd* command is used to move between directories. The command *pwd* is used to print the current directory to the screen.
- b. Three commands to move to your home directory are:
cd ~
cd
cd /Users/username
- c. i) This is an absolute path because it starts with */*.
ii) The shortest path is *Documents/../data/bases*
- d. The output would be */home*
- e. You can enter the command *man frbzz* and read the manual pages displayed. Another option is to type *frbzz --help*, or *frbzz -h* into bash.
- f.

1.2 The output is:

```
Documents  data
```

```
PHY494/01_shell/Documents:  
work
```

```
PHY494/01_shell/Documents/work:  
TODO.bak    TODO.txt  hints.txt
```

```
PHY494/01_shell/data:
```

1.3

- a. *planets_2.dat* has 120 lines.
- b. The three biggest planets are Bepin, Kamino, and Malastare.
- c. Hoth and Mygeeto both contain ice.
- d. The most frequent are C and S, with 7. The least frequent are F, J, P, Q, V, and Y, with 1 each.

1.4

a. There are 163 entries in all of the .csv files. The files are:

people.csv
starships.csv
vehicles.csv

The command and output were: `wc *.csv`

```
87      165      2630 people.csv
37      186      2780 starships.csv
39      178      2515 vehicles.csv
163      529      7925 total
```

b. The commands to get the 4 heaviest people in the *people.csv* file were:

```
cut -f 1 -d ',' people.csv > names
cut -f 4 -d ',' people.csv > weights
paste weights names | sort -g | tail -4
```

The output was:

```
136      Tarfful
140      IG-88
159      Grievous
1358     Jabba Desilijic Tiure
```

1.5

a. SHELL = /bin/bash and HOME = /Users/username

b. The output is

```
bash ~/bin/update_resources.sh
Already up-to-date.
Updated resources in /Users/jordanboyd/PHY494-resources
```