## Odds and Ends

Chr1,18658403,18658693 Chr12,9488597,9489239

## **GZIP**

```
Compression of files with gzip
$ gzip file.fa
# will produce
file.fa.gz
To uncompress
$ gunzip file.fa.gz
# will produce
file.fa
Searching for text with grep
Powerful pattern seaching with grep
Simple search for a text string:
$ grep Chr11 /bigdata/gen220/shared/data-examples/examples/random_exons.csv
Chr11,14656670,14656778
Chr11,3528895,3530426
Chr11,16238576,16239304
To get the count of number of lines that match a pattern use the -c option.
$ grep -c Chr11 /bigdata/gen220/shared/data-examples/examples/random_exons.csv
What if we wanted to count the number of times Chr1 showed up?
$ grep Chr1 /bigdata/gen220/shared/data-examples/examples/random_exons.csv
Chr11,14656670,14656778
Chr1,1147485,1147562
Chr12,22130532,22130707
Chr10,19029658,19029760
Chr11,3528895,3530426
Chr12,23125462,23125634
Chr1,4249358,4249468
Chr11,16238576,16239304
Chr12,9264478,9264617
```

```
Chr1,12152,12435
Chr1,43214981,43215253
```

How can we make this a more specific query? Well we know the ',' comes after so we can include that in the search.

```
$ grep Chr1, /bigdata/gen220/shared/data-examples/examples/random_exons.csv Chr1,1147485,1147562 Chr1,4249358,4249468 Chr1,18658403,18658693 Chr1,12152,12435 Chr1,43214981,43215253
```

If you want to invert the search and find lines that DO NOT match the pattern use the  $-\mathbf{v}$  option.

```
$ grep -c Chr1, /bigdata/gen220/shared/data-examples/examples/random_exons.csv
5
$ grep -v -c Chr1, /bigdata/gen220/shared/data-examples/examples/random_exons.csv
25
```