- Viewing and Manipulating the data
 - The grep family

```
$ cat demo_file
THIS LINE IS THE 1ST UPPER CASE LINE IN THIS FILE.
this line is the 1st lower case line in this file.
This Line Has All Its First Character Of The Word With Upper Case.

Two lines above this line is empty.
And this is the last line.
```

```
$ grep "this" demo_file
this line is the 1st lower case line in this file.
Two lines above this line is empty.
And this is the last line.
```

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 - The grep family

```
$ cp demo_file demo_file1

$ grep "this" demo_*
demo_file:this line is the 1st lower case line in this file.
demo_file:Two lines above this line is empty.
demo_file:And this is the last line.
demo_file1:this line is the 1st lower case line in this file.
demo_file1:Two lines above this line is empty.
demo_file1:And this is the last line.
```

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```
$ grep -l this demo_*
demo_file
demo_file1
```

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```
$ grep -c "go" demo_text
```

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```
$ grep "lines.*empty" demo_file
Two lines above this line is empty.
```

- ? The preceding item is optional and matched at most once.
- * The preceding item will be matched zero or more times.
- + The preceding item will be matched one or more times.
- {n} The preceding item is matched exactly n times.
- {n,} The preceding item is matched n or more times.
- {,m} The preceding item is matched at most m times.
- {n,m} The preceding item is matched at least n times, but not more than m times.

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```
$ grep "^Nov 10" messages.1
Nov 10 01:12:55 gs123 ntpd[2241]: time reset +0.177479 s
Nov 10 01:17:17 gs123 ntpd[2241]: synchronized to LOCAL(0), stratum 10
Nov 10 01:18:49 gs123 ntpd[2241]: synchronized to 15.1.13.13, stratum 3
Nov 10 13:21:26 gs123 ntpd[2241]: time reset +0.146664 s
Nov 10 13:25:46 gs123 ntpd[2241]: synchronized to LOCAL(0), stratum 10
Nov 10 13:26:27 gs123 ntpd[2241]: synchronized to 15.1.13.13, stratum 3
```

```
$ grep -c "^$" messages anaconda.log
messages:0
anaconda.log:3
```

```
$ grep "terminating.$" messages
Jul 12 17:01:09 cloneme kernel: Kernel log daemon terminating.
Oct 28 06:29:54 cloneme kernel: Kernel log daemon terminating.
```

- Viewing and Manipulating the data
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```
$ grep -i "^[^aeiou]" /usr/share/dict/linux.words
1080
10-point
10th
11-point
12-point
16-point
18-point
1st
```

- Viewing and Manipulating the data
 - The grep family

```
$ grep -o "is.*line" demo_file
is line is the 1st lower case line
is line
is the last line
```

- Viewing and Manipulating the data
 - The grep family

```
$ grep -v "go" demo_text
4. Vim Word Navigation
```

```
$ cat test-file.txt
a
b
c
d

$ grep -v -e "a" -e "b" -e "c" test-file.txt
d
```