

GREP

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```
total 1
crw-r----- 1 root  operator  0, 81 Oct 23 22:19 acd0
crw-r--r--  1 root  wheel    0, 29 Oct 23 22:19 acpi
crw-r----- 1 root  operator  0, 79 Oct 23 22:19 ad0
crw-r----- 1 root  operator  0, 82 Oct 23 22:19 ad0s1
crw-r----- 1 root  operator  0, 83 Oct 23 18:19 ad0sia
crw-r----- 1 root  operator  0, 84 Oct 23 22:19 ad0s1b
crw-r----- 1 root  operator  0, 85 Oct 23 22:19 ad0sic
crw-r----- 1 root  operator  0, 86 Oct 23 18:19 ad0sid
crw-r----- 1 root  operator  0, 87 Oct 23 18:19 ad0sie
crw-r----- 1 root  operator  0, 88 Oct 23 18:19 ad0s1f
crw-r----- 1 root  operator  0, 80 Oct 23 22:19 ad1
crw-----  1 root  wheel    0, 30 Oct 23 22:19 agpgart
crw-----  1 root  operator  0, 28 Oct 23 22:19 ata
crw-----  1 root  wheel    0, 35 Oct 23 22:19 atkbd0
crw-----  1 root  wheel    0, 92 Oct 23 22:19 bpf0
crw-rw-rw-  1 root  wheel    0, 30 Oct 23 22:19 bpsm0
crw-----  1 root  wheel    0, 12 Oct 23 22:41 console
crw-----  1 root  wheel    0, 72 Oct 23 22:19 consolectl
crw-rw-rw-  1 root  wheel    0, 13 Oct 23 22:19 ctty
crw-rw----  1 uucp  dialer   0, 47 Oct 23 22:19 cuad0
crw-rw----  1 uucp  dialer   0, 48 Oct 23 22:19 cuad0.init
crw-rw----  1 uucp  dialer   0, 49 Oct 23 22:19 cuad0.lock
crw-rw----  1 uucp  dialer   0, 53 Oct 23 22:19 cuad1
byte 1358
```



What is grep?

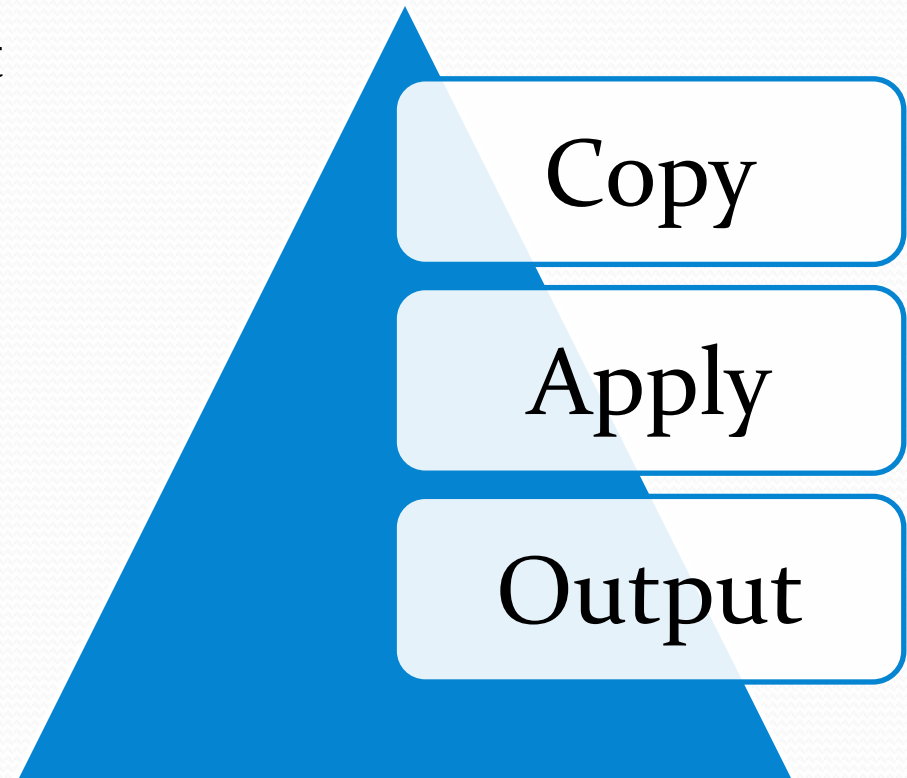
- Global Regular Expression Print
- grep is a command line search utility in Unix

Try: Search for a word in a .cpp file

- grep 'cat' cat.cpp

What can it do?

- Copy next input line into pattern space
- Apply regular expression to pattern space
- Copies matches to output



grep Family

egrep

- Allows for more complex patterns

fgrep

- Good for searching text characters
- Uses sequence operations
- e.g.: (), "", `

grep

- Uses all regular expressions
- Only one that allows saving

Commands

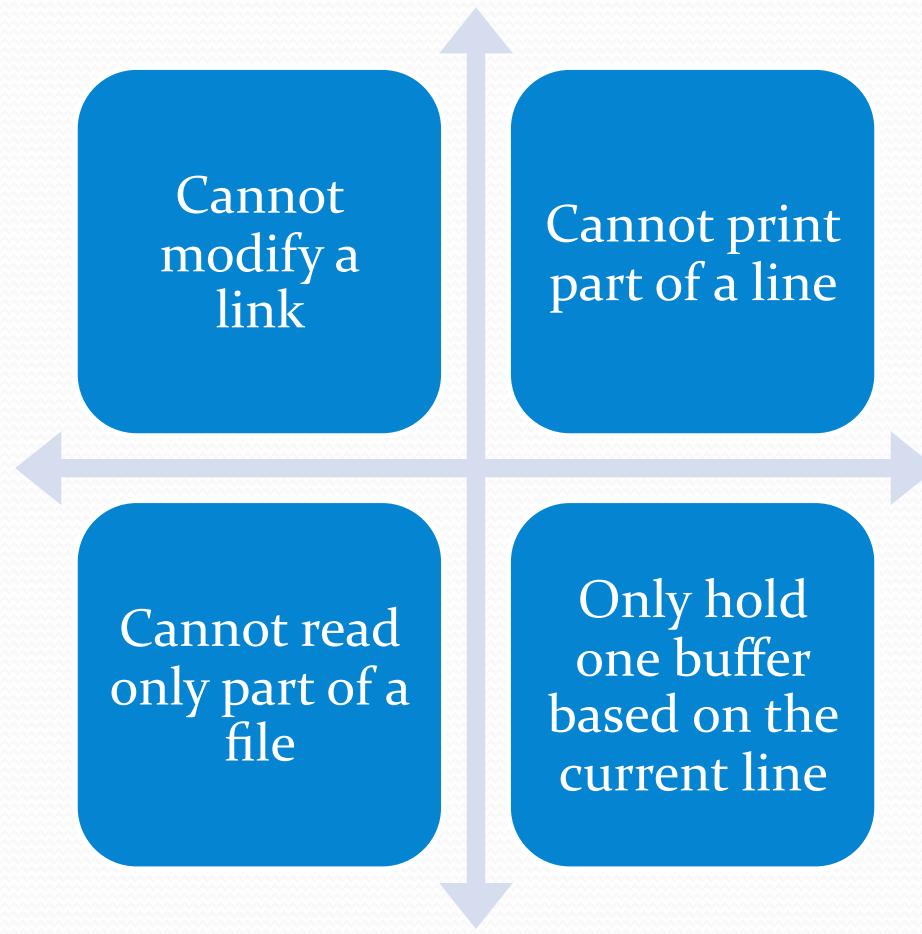
Command	Description
-b	Precedes each line by the file block #
-c	Prints only a count of the number of lines matching the pattern
-i	Ignores upper/lower case matching
-n	Shows the line numbers
-s	Silent Mode(no output)
-v	Inverse Output (lines that don't match)
-x	Prints only lines that entirely match
-f file	List of strings to be matched are in a file

Searching

- grep can search for files with the same name in a directory
- Find command locates the path of a file



Limitations



Have Fun!

- Try figuring out how to make search results more specific
- There is a way!

