



Day 2: More Bash

Piping output

The “|” key (shift \) is the *pipe*. It redirects the output of one command into another command.

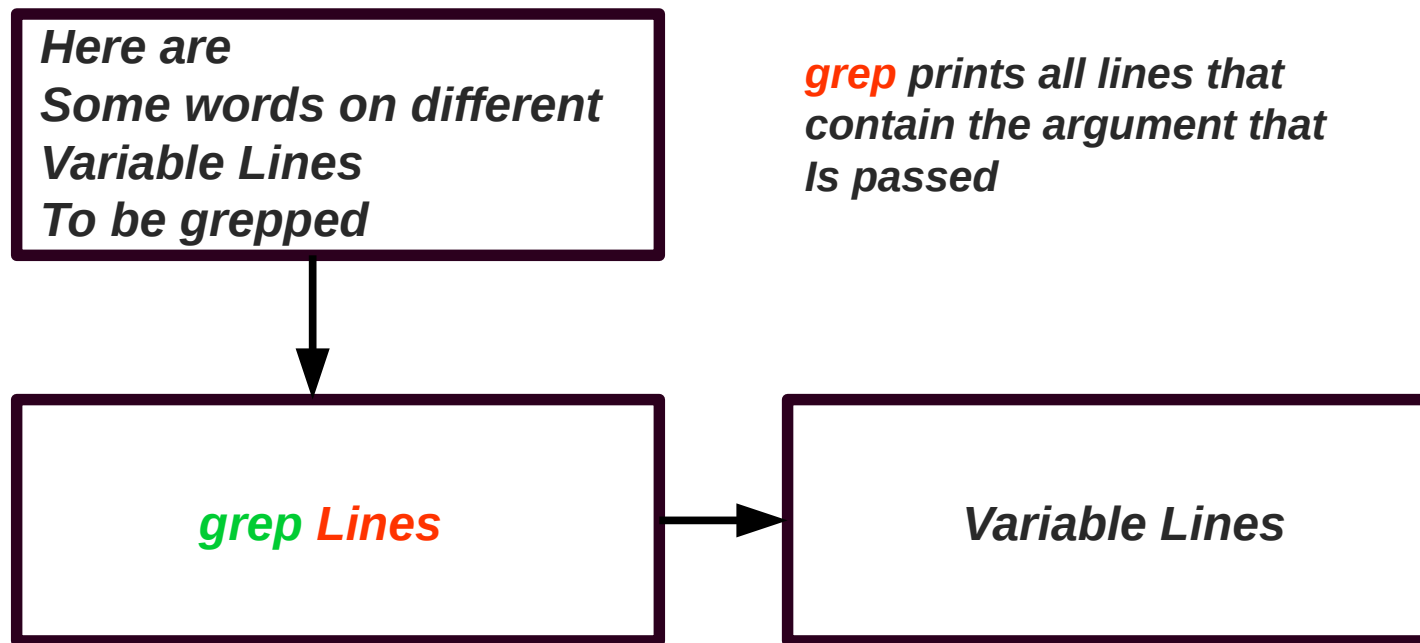
Example: general format for piping commands

command_1 | command_2

```
[bbm617@quser12 ~]$ ls
12 17 21 24 3 4 42 43 8 hpc_support intel old simulations
[bbm617@quser12 ~]$ ls | sort -n
hpc_support
intel
old
simulations
3
4
8
12
17
21
24
42
43
[bbm617@quser12 ~]$
```

Advanced Commands - grep

grep – a *filter*



Advanced Commands - grep

grep example

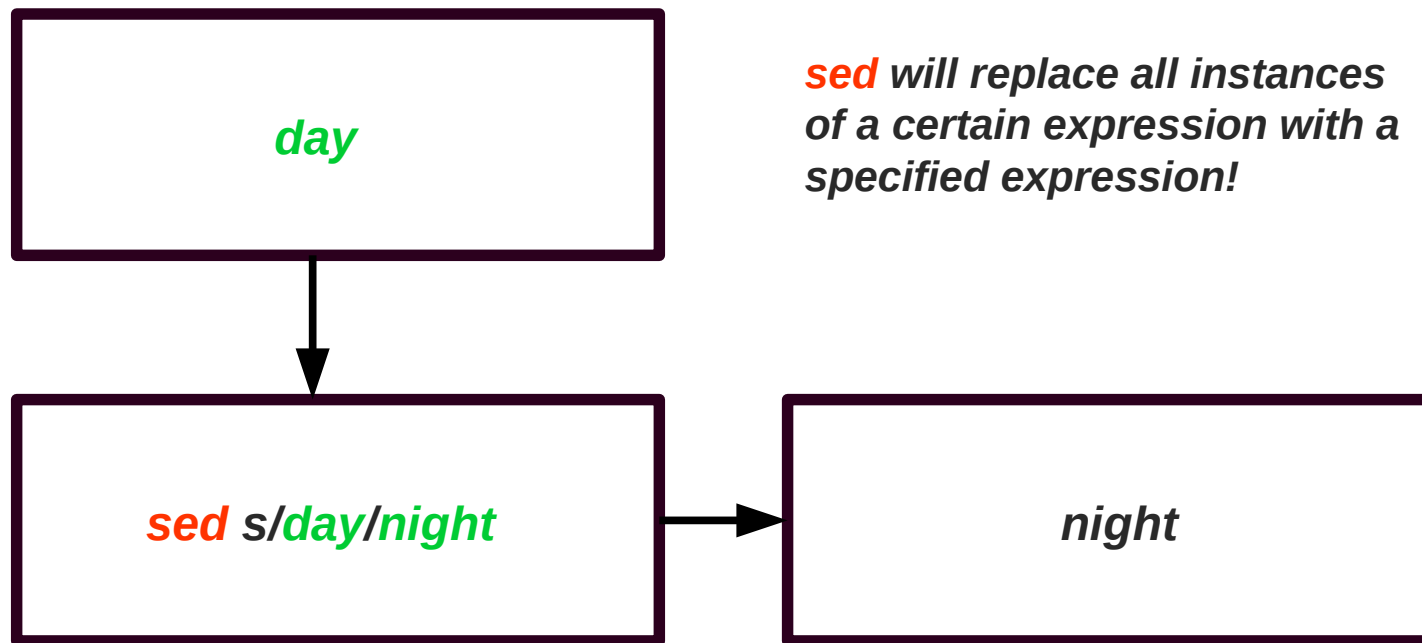
```
[bbm617@quser12 ~]$ ls
12 17 21 24 3 4 42 43 8 hpc_solutions hpc_support intel old simulations
[bbm617@quser12 ~]$ ls | grep hpc
hpc_solutions
hpc_support
[bbm617@quser12 ~]$
```

You may also call **grep** directly with a **file** as an **argument**

```
[bbm617@quser12 simulations]$ ls
data file2.txt runs scripts summerstudents
[bbm617@quser12 simulations]$ cat file2.txt
here
is
some
random
data
1
2
3
4
5
6
7
8
3.14149
14
[bbm617@quser12 simulations]$ grep 14 file2.txt
3.14149
14
[bbm617@quser12 simulations]$
```

Advanced Commands - sed

sed – is more or less a *replacement tool*



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L

```
[bbm617@quser12 simulations]$ echo day | sed s/day/night/g
night
[bbm617@quser12 simulations]$
```

You may also call sed within vim

[illegible]

```
export mydat=/projects/b1011/data/  
export mystuff=/projects/e20579/sbc528/stuff  
source /projects/b1011/spinning_runs/sbc528/  
~  
~  
~  
~  
~  
~  
~
```