

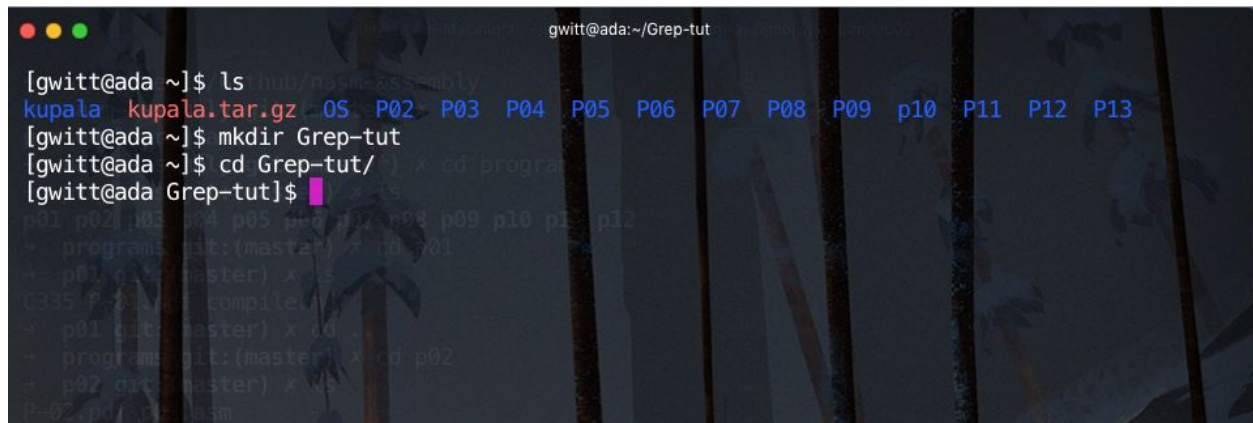
Operating Systems

Spring Semester 2020

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L-19- The Many Faces of Grep

Logging into Ada For Programming Examples:



```
gwitt@ada: ~/Grep-tut
[gwitt@ada ~]$ ls hub/nasm/assembly
kupala kupala.tar.gz OS P02 P03 P04 P05 P06 P07 P08 P09 p10 P11 P12 P13
[gwitt@ada ~]$ mkdir Grep-tut
[gwitt@ada ~]$ cd Grep-tut/
[gwitt@ada Grep-tut]$
```

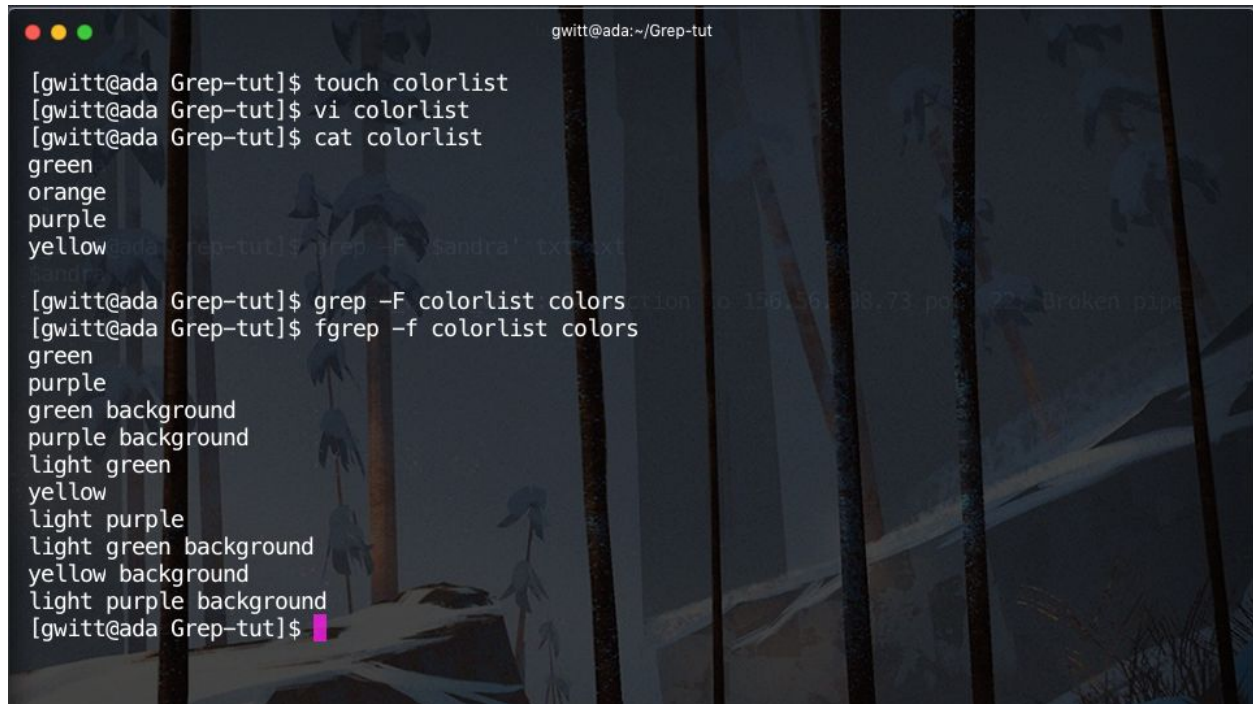
Example 1: egrep

```
g Witt@ada: ~/Grep-tut
[gwitt@ada ~]$ ls hub/nas96-assembly
kupala kupala.tar.gz OS P02 P03 P04 P05 P06 P07 P08 P09 p10 P11 P12 P13
[gwitt@ada ~]$ mkdir Grep-tut
[gwitt@ada ~]$ cd Grep-tut/
[gwitt@ada Grep-tut]$ alias egrep='grep -E'
[gwitt@ada Grep-tut]$ alias fgrep='grep -F'
[gwitt@ada Grep-tut]$ alias plgrep='grep -P'
[gwitt@ada Grep-tut]$ grep -E "green|yellow|purple" colors
grep: colors: No such file or directory
[gwitt@ada Grep-tut]$ touch colors
[gwitt@ada Grep-tut]$ ls
colors
[gwitt@ada Grep-tut]$ vi colors
[gwitt@ada Grep-tut]$ grep -E "green|yellow|purple" colors
green
purple
green background
purple background
light green
yellow
light purple
light green background
yellow background
light purple background
[gwitt@ada Grep-tut]$
```

Example 2: grep -f

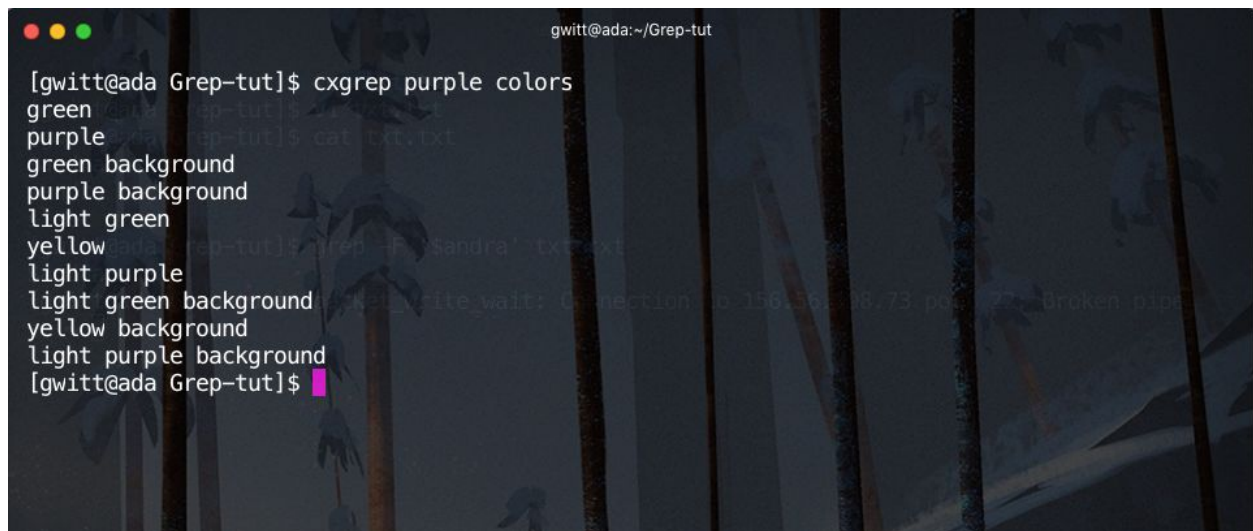
```
g Witt@ada: ~/Grep-tut
[gwitt@ada Grep-tut]$ touch txt.txt
[gwitt@ada Grep-tut]$ vi txt.txt
[gwitt@ada Grep-tut]$ cat txt.txt
$sandra
sandra
slee
[gwitt@ada Grep-tut]$ grep -F '$sandra' txt.txt
$sandra
[gwitt@ada Grep-tut]$
```

Patterns from a file:

A terminal window with a dark background and a forest illustration. The prompt is 'gwitt@ada: ~/Grep-tut'. The user enters 'touch colorlist', 'vi colorlist', and 'cat colorlist'. The output of 'cat colorlist' is 'green', 'orange', 'purple', and 'yellow'. Then the user enters 'grep -F colorlist colors' and 'fgrep -f colorlist colors'. The output of 'fgrep' is 'green', 'purple', 'green background', 'purple background', 'light green', 'yellow', 'light purple', 'light green background', 'yellow background', and 'light purple background'.

```
[gwitt@ada Grep-tut]$ touch colorlist
[gwitt@ada Grep-tut]$ vi colorlist
[gwitt@ada Grep-tut]$ cat colorlist
green
orange
purple
yellow
[gwitt@ada Grep-tut]$ grep -F colorlist colors
[gwitt@ada Grep-tut]$ fgrep -f colorlist colors
green
purple
green background
purple background
light green
yellow
light purple
light green background
yellow background
light purple background
[gwitt@ada Grep-tut]$
```

CxGrep Example:

A terminal window with a dark background and a forest illustration. The prompt is 'gwitt@ada: ~/Grep-tut'. The user enters 'cxgrep purple colors'. The output is 'green', 'purple', 'green background', 'purple background', 'light green', 'yellow', 'light purple', 'light green background', 'yellow background', and 'light purple background'.

```
[gwitt@ada Grep-tut]$ cxgrep purple colors
green
purple
green background
purple background
light green
yellow
light purple
light green background
yellow background
light purple background
[gwitt@ada Grep-tut]$
```

Grep NOT Example:

```
gwitt@ada:~/Grep-tut
[gwitt@ada Grep-tut]$ xgrep background colors
green
purple
light green
yellow
light purple
[gwitt@ada Grep-tut]$ xgrep -F 'Sandra' txt.txt
Sandra
[gwitt@ada Grep-tut]$
```

Cgrep Examples: