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# Grep cheatsheet

This cheat sheet is intended to be a quick reminder for the main concepts involved in using the command line program grep and assumes you already understand its usage.

## # Getting Started

### Usage

Search standard output (i.e. a stream of text)

```
$ grep [options] search_string
```

Search for an exact string in file:

```
$ grep [options] search_string path/to/file
```

### Option examples

<code>-i</code>	<code>grep -i ^DA demo.txt</code>	Forgets about case sensitivity
<code>-w</code>	<code>grep -w "of" demo.txt</code>	Search only for the full word
<code>-A</code>	<code>grep -A 3 'Exception' error.log</code>	Display 3 lines after matching string
<code>-B</code>	<code>grep -B 4 'Exception' error.log</code>	Display 4 lines before matching string
<code>-C</code>	<code>grep -C 5 'Exception' error.log</code>	Display 5 lines around matching string

Print lines in myfile.txt containing the string "mellon"

```
$ grep 'mellon' myfile.txt
```

Wildcards are accepted in filename

-r	grep -r 'quickref.me' /var/log/nginx/	Recursive search (within subdirs)
-v	grep -v 'warning' /var/log/syslog	Return all lines which don't match the pattern
-e	grep -e '^al' filename	Use regex (lines starting with 'al')
-E	grep -E 'ja(s cks)on' filename	Extended regex (lines containing jason or jackson)
-c	grep -c 'error' /var/log/syslog	Count the number of matches
-l	grep -l 'robot' /var/log/*	Print the name of the file(s) of matches
-o	grep -o search_string filename	Only show the matching part of the string
-n	grep -n "go" demo.txt	Show the line numbers of the matches

# # Grep regular expressions

Refer

- [Regex syntax](#) (quickref.me)
- [Regex examples](#) (quickref.me)

Wildcards

.	Any character.
?	Optional and can only occur once.
*	Optional and can occur more than once.
+	Required and can occur more than once.

Quantifiers

{n}	Previous item appears exactly n times.
{n,}	Previous item appears n times or more.
{,m}	Previous item appears n times maximum.

Please refer to the full version of the regex cheat sheet for more complex

`{n,m}` Previous item appears between n and m times.

POSIX	
<code>[[:alpha:]]</code>	Any lower and upper case letter.
<code>[[:digit:]]</code>	Any number.
<code>[[:alnum:]]</code>	Any lower and upper case letter or digit.
<code>[[:space:]]</code>	Any whitespace.

Character	
<code>[A-Za-z]</code>	Any lower and upper case letter.
<code>[0-9]</code>	Any number.
<code>[0-9A-Za-z]</code>	Any lower and upper case letter or digit.

Position	
<code>^</code>	Beginning of line.
<code>\$</code>	End of line.
<code>^\$</code>	Empty line.
<code>\&lt;</code>	Start of word.
<code>\&gt;</code>	End of word.

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