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List of command line commands

Glossary of commonly used commands



Background

The command line is a text interface for your computer. It's a program that takes in commands, which it passes on to the computer's operating system to run.

From the command line, you can navigate through files and folders on your computer, just as you would with Windows Explorer on Windows or Finder on Mac OS. The difference is that the command line is fully text-based.

Here's an appendix of commonly used commands.

Commands

>

```
$ cat oceans.txt > continents.txt
```

> takes the standard output of the command on the left, and redirects it to the file on the right.

>>

```
$ cat glaciers.txt >> rivers.txt
```

>> takes the standard output of the command on the left and *appends* (adds) it to the file on the right.

<

```
$ cat < lakes.txt
```

< takes the standard input from the file on the right and inputs it into the program on the left.

|

```
$ cat volcanoes.txt | wc
```

| is a "pipe". The | takes the standard output of the command on the left, and *pipes* it as standard input to the command on the right. You can think of this as "command to command" redirection.

~/.bash_profile

```
$ nano ~/.bash_profile
```

~/.bash_profile is the name of file used to store environment settings. It is commonly called the "bash profile". When a session starts, it will load the contents of the bash profile before executing commands.

alias

```
alias pd="pwd"
```

The alias command allows you to create keyboard shortcuts, or aliases, for commonly used commands.

cd

```
cd Desktop/
```

cd takes a directory name as an argument, and switches into that directory.

```
$ cd jan/memory
```

To navigate directly to a directory, use cd with the directory's path as an argument. Here, cd jan/memory/ command navigates directly to the **jan/memory** directory.

cd ..

```
$ cd ..
```

To move up one directory, use cd ... Here, cd .. navigates up from **jan/memory/** to **jan/**.

cp

```
$ cp frida.txt historical/
```

cp copies files or directories. Here, we copy the file **lincoln.txt** and place it in the **historical/** directory

Wildcards

```
$ cp * satire/
```

The wildcard * selects in the working directory, so here we use cp to copy all files into the satire/ directory.

```
$ cp m*.txt scifi/
```

Here, m*.txt selects all files in the working directory starting with "m" and ending with ".txt", and copies them to scifi/.

env

env

The env command stands for "environment", and returns a list of the environment variables for the current user.

env | grep VARIABLE

env | grep PATH

env | grep PATH is a command that displays the value of a single environment variable.

export

export USER="Jane Doe"

export makes the variable to be available to all child sessions initiated from the session you are in. This is a way to make the variable persist across programs.

grep

\$ grep Mount mountains.txt

grep stands for "global regular expression print". It searches files for lines that match a pattern and returns the results. It is case sensitive.

grep -i

\$ grep -i Mount mountains.txt

grep -i enables the command to be case insensitive.

grep -R

\$ grep -R Arctic /home/ccuser/workspace/geography

grep -R searches all files in a directory and outputs filenames and lines containing matched results. -R stands for "recursive".

grep -Rl

\$ grep -Rl Arctic /home/ccuser/workspace/geography

grep -Rl searches all files in a directory and outputs only filenames with matched results. -R stands for "recursive" and l stands for "files with matches".

HOME

\$ echo \$HOME

The HOME variable is an environment variable that displays the path of the home directory.

ls

```
$ ls
2014  2015  hardware.txt
```

ls lists all files and directories in the working directory

ls -a

```
ls -a
.  ..  .preferences  action  drama  comedy  genres.txt
```

ls -a lists all contents in the working directory, including hidden files and directories

ls -l

```
ls -l
drwxr-xr-x 5 cc eng 4096 Jun 24 16:51 action
drwxr-xr-x 4 cc eng 4096 Jun 24 16:51 comedy
drwxr-xr-x 6 cc eng 4096 Jun 24 16:51 drama
-rw-r--r-- 1 cc eng    0 Jun 24 16:51 genres.txt
```

ls -l lists all contents of a directory in long format. [Here's what each column means.](#)

ls -t

ls -t orders files and directories by the time they were last modified.

mkdir

```
$ mkdir media
```

mkdir takes in a directory name as an argument, and then creates a new directory in the current working directory. Here we used mkdir to create a new directory named **media**/.

mv

```
$ mv superman.txt superhero/
```

To move a file into a directory, use mv with the source file as the first argument and the destination directory as the second argument. Here we move superman.txt into superhero/.

nano

```
$ nano hello.txt
```

nano is a command line text editor. It works just like a desktop text editor like TextEdit or Notepad, except that it is accessible from the the command line and only accepts keyboard input.

PATH

```
$ echo $PATH
```

```
/home/ccuser/.gem/ruby/2.0.0/bin:/usr/local/sbin:/usr/local/bin:/usr/bin:/usr/sbin:/sbin:/bin
```

PATH is an environment variable that stores a list of directories separated by a colon. Each directory contains scripts for the command line to execute. PATH lists which directories contain scripts.

pwd

```
$ pwd  
/home/ccuser/workspace/blog
```

pwd prints the name of the working directory

rm

```
$ rm waterboy.txt
```

rm deletes files. Here we remove the file waterboy.txt from the file system.

rm -r

```
$ rm -r comedy
```

rm -r deletes a directory and all of its child directories.

sed

```
$ sed 's/snow/rain/' forests.txt
```

sed stands for "stream editor". It accepts standard input and modifies it based on an *expression*, before displaying it as output data.

In the expression 's/snow/rain/':

- s: stands for "substitution".
- snow: the search string, the text to find.
- rain: the replacement string, the text to add in place.

sort

```
$ sort lakes.txt
```

sort takes the standard input and orders it alphabetically for the standard output.

standard error

standard error, abbreviated as stderr, is an error message outputted by a failed process.

source

```
source ~/.bash_profile
```

`source` activates the changes in `~/.bash_profile` for the current session. Instead of closing the terminal and needing to start a new session, `source` makes the changes available right away in the session we are in.

standard input

standard input, abbreviated as `stdin`, is information inputted into the terminal through the keyboard or input device.

standard output

standard output, abbreviated as `stdout`, is the information outputted after a process is run.

touch

```
$ touch data.tx
```

`touch` creates a new file inside the working directory. It takes in a file name as an argument, and then creates a new empty file in the current working directory. Here we used `touch` to create a new file named `keyboard.txt` inside the `2014/dec/` directory.

If the file exists, `touch` is used to update the modification time of the file

uniq

```
$ sort lakes.txt
```

`sort` takes the standard input and orders it alphabetically for the standard output.



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