



## COMMON LINUX COMMANDS

1	<b>cd</b> <b>cd /home/gope/twerk</b>	<p>Stands for "change directory"</p> <p><b>cd .</b> - current directory  <b>cd ..</b> - go to above directory in hierarchy  <b>/home/gopedir/ed</b> (currently in ed)  - cmd will take to gopedir b/c it is above/before current dir  <b>cd ~</b> - default home directory  <b>cd -</b> - previous directory you were in</p>
2	<b>ls</b> <b>ls -la /home/gope</b>	<p>lists all files in the directory</p> <p><b>ls -a</b> (all) - shows all files in the dir, even if they are hidden  <b>ls -l</b> (long) - Shows detailed info like file permission, number of links, owner name, file size/stamp, modified date etc  <b>ls -la</b> - Combination of <b>-a</b> and <b>-l</b></p>
3	<b>touch [filename]</b> <b>touch gopefile</b>	<p>Used to create new files, updates the timestamps of files</p>
4	<b>file</b> <b>file gopefile.gif</b>	<p>Used to determine the actual file type and description of the file (in linux files do not confirm to their file ext.) gope.js is can be any file not just JS</p>
5	<b>cat</b> <b>cat gopefile gopefile2</b>	<p>See the contents of a file(s) (small files), stands for concatenate because it can combine the contents of multiple files.</p> <p><b>cat &gt; gope.txt</b> - makes a text file and allows you to edit it. Use CTRL+C to exit the file</p>

6	<code>less</code> <code>less gopefile</code>	Shows the file in a page format <code>q</code> - quit <code>g</code> - beginning of page <code>G</code> - end of page <code>/search</code> - search for specific text <code>h</code> - get help of using less cmd
7	<code>history</code>	Look at all the previous commands
8	<code>echo</code>	Print a statement to screen  <code>echo simp</code> - will print simp to the console <code>echo gope &gt; gope.txt</code> - will create 'gope.txt' and add gope to it <code>echo simp &gt;&gt; gope.txt</code> - will add 'simp' to the end of gope.txt file, used to append
9	<code>clear</code>	Clears the display
10	CTRL + C	Exit a file, bring up user prompt to enter a new command
11	<code>cp</code>	Copy files
12	Wild cards	<code>*</code> - represents all character/strings <code>ls *.gif /home/gope</code> - lists all .gif files in gope  <code>?</code> - represents a single character <code>ls *.??g</code> - lists all files like jpg and png, but not mpeg b/c it is four chars. <code>ls ?x*.png</code> - all png files with second letter i  <code>[]</code> - defines a range <code>ls [a-z]</code> - list all files with names a.. or z... <code>ls [^a-z]</code> - lists all files that are not name a or z, note the use of the caret ^
13	Flags	<code>-r</code> - (recursive) used to copy or remove all files (children) within a dir (including the dir) <code>cp -r gopedir/ home/gope</code>

		<p><b>-i</b> - used to prompt the user before overwriting or deleting files</p> <p>*when used with <b>grep -i</b> is for insensitive, which searches for all lines matching the given string no matter the case.</p> <p><b>-b</b> - used to make a backup of a file which is overwritten, renames the file with ~</p> <p><b>mv -b gopefile /home/gopedir</b> - will overwrite the file 'gopefile' that is in gopedir and make a backup of it.</p> <p><b>-p</b> - parent flag, used to make subdirectories inside a dir</p> <p><b>mkdir -p /gopedir2/chrislap/nut</b> - makes two dir inside the parent dir (gopedir2)</p> <p><b>-f</b> - forcefully remove all files even those that are write protected</p> <p>*there are many other flags</p>
14	<b>mv</b>	<p>used to move or rename a file</p> <p><b>mv gopefile gopetwerk</b> - gopefile is renamed to gopetwerk</p> <p><b>mv gopefile gope2 /home/gopedir</b> - gopefile and gope2 are moved to gopedir</p>
15	<b>mkdir</b>	<p>make directory</p> <p><b>mkdir gopedir2 gopetwerk</b> - makes two dir called gopedir2 and gopetwerk</p>
16	<b>rm</b>	<p>remove</p> <p><b>rmdir gopedir</b> - directories cannot be removed directly, have to use a different but similar cmd</p> <p><b>rm -r gopedir</b> - also works, because it will</p>

		remove all files inside the dir and the dir itself
17	<b>find</b>	Used to look for certain files and dirs, must specify the directory of the file  - <b>type</b> - specific type of file - <b>name</b> - specify the name of the file  <b>find -type d -name gopedir</b> - looks for the type directory defined by 'd' named 'gopedir'
18	<b>help</b>	used to get help with a particular command  <b>help rm</b> - will give a brief description of 'rm' command and all the flags that can be used with it
19	<b>man</b>	Brings up the manual for a command with in-depth description  <b>man rm</b> - will bring up the manual for the 'rm' command including the flags
20	<b>alias</b>	used to assign aliases to long commands  <b>alias gope = 'ls -la'</b> - will create gope as an alias for list -la command  <b>unalias gope</b> - will remove 'gope' as an alias
21	Head out commands	<b>exit</b> - exit the terminal <b>logout</b> - logout of linux <b>reboot</b> - reboot the computer
22	<b>date</b>	Shows the date and time
23	<b>top</b>	Shows information on currently running processes
24	<b>grep</b>  <b>cat &gt; gope.txt</b>	'Global regular expression print'  Used to search text files for specific <u>lines</u>

	<pre>gope linux chris gope linux some random text gope more random text</pre>	<pre>grep "gope" gope.txt gope linux chris gope linux some random text gope</pre> <ul style="list-style-type: none"> <li>- will return the first two lines b/c they contain 'gope' but not the third because it has no 'gope'</li> </ul> <p>-i - case insensitive, searches for all matching strings regardless of case.</p> <p>-c - returns the number of lines that matches the given string</p> <p>*there are many other options that can be used with <b>grep</b></p>
25	Creating, writing and running python files	<pre>cat &gt; gope.py num1 = 1 num2 = 6 print (num1 + num2)</pre> <p><b>python gope.py</b> - use 'python' to call the python interpreter.</p> <p>7</p> <p>Will print the sum of 'num1' and 'num2'</p>

<https://linuxjourney.com/> - Learn command line

<https://bellard.org/jslinux/> - online LINUX terminal