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| **Command** | **Translation** | **Examples** |
| cd | **c**hange **d**irectory | cd /absolute/path/of/the/directory/  Go to the home directory by typing simply cd or cd ~  Go up (back) a directory by typing cd .. |
| pwd | **p**rint **w**orking **d**irectory | pwd |
| mkdir | **m**ake **dir**ectory | mkdir newDirectory creates newDirectory in your current directory  Make a directory one level up with mkdir ../newDirectory |
| cp | **c**o**p**y | cp file.txt newfile.txt (and file.txt will still exist!) |
| mv | **m**o**v**e | mv file.txt newfile.txt (but file.txt will *no longer* exist!) |
| rm | **r**e**m**ove | rm file.txt removes file.txt  rm -r directoryname/ removes the directory and all files within |
| ls | **l**i**s**t | ls \*.txt lists all .txt files in current directory  ls -a lists all files including hidden ones in the current directory  ls -l lists all files in current directory including file sizes and timestamps  ls -lh does the same but changes file size format to be **h**uman-readable  ls ../ lists files in the directory above the current one |
| man | **man**ual | man ls opens the manual for command ls (use q to escape page) |
| grep | **g**lobal **r**egular  **e**xpression **p**arser | grep ">" seqs.fasta pulls out all sequence names in a fasta file  grep -c ">" seqs.fasta counts the number of those sequences |
| cat | con**cat**enate | cat seqs.fasta prints the contents of seqs.fasta to the screen (ie stdout) |
| head | **head** | head seqs.fasta prints the first 10 lines of the file  head -n 3 seqs.fasta prints first 3 lines |
| tail | **tail** | tail seqs.fasta prints the last 10 lines of the file  tail -n 3 seqs.fasta prints last 3 lines |
| wc | **w**ord **c**ount | wc filename.txt shows the number of new lines, number of words, and number of characters  wc -l filename.txt shows only the number of new lines  wc -c filename.txt shows only the number of characters |
| sort | **sort** | sort filename.txt sorts file and prints output |
| uniq | **uniq**ue | uniq -u filename.txt shows only unique elements of a list  (must use sort command first to cluster repeats) |

UNIX CHEAT SHEET

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| **Shortcut** | **Use** |
| Ctrl + C | kills current process |
| Ctrl + L (or clear) | clears screen |
| Ctrl + A | Go to the beginning of the line |
| Ctrl + E | Go to the end of the line |
| Ctrl + U | Clears the line before the cursor position |
| Ctrl + K | Clear the line after the cursor |
| \* | wildcard character |
| tab | completes word |
| Up Arrow | call last command |
| . | current directory |
| .. | one level up |
| ~ | home |
| > | redirects stdout to a file, *overwriting* file if it already exists |
| >> | redirects stdout to a file, *appending* to the end of file if it already exists |
| | | redirects stdout to become stdin for next command |