**Linux Wizardry**

1. Grep by file extension and sort by date

**ls -rt \*.*txt* | xargs grep -lr --include=\\*.*txt* '*searchterm*' ./**

1. Grep for environment variables

**env | grep *ENV\_VAR\_NAME***

1. Sort all files by time

**ls -lta**

* ***a*** *shows hidden files*

1. Find a file

**find . -name *ExactFileName\_to\_Find.txt***

* ***.*** *searches current directory and all child directories*
* ***-iname*** *can be used for case insensitivity*
* ***fileStartingWith\\**** *is an example with the wildcard operator*

1. Reference last argument from last command

**!$**

1. Unzip / untar a file

**unzip *file*.zip**

**unzip -d *target-directory file.zip***

**tar -xvf *file.tar***

*-xvf is shorthand for --extract --verbose --file=*

*-tvf can preview the contents without extracting*

*-t is shorthand for --test*

**tar -C *target-directory file.tar***

*-C is shorthand for Change directory*

*.tar files store uncompressed data*

*.tgz, .tar.gz, .gz store compressed data*

1. Zip / tar a file

**zip *sample.zip file1 file2 file3***

*Add* ***-r*** *flag to zip a directory*

**tar -cvf *sample.tar file1 file2 file3***

*-c is shorthand for creating archive (no compression)*

**tar -zcvf *sample.tgz file1 file2 file3***

*-z is shorthand for zipping (compression via gzip)*

1. **Todo: A lot ☹**

**Git Magic**

1. **git add** will stage a file, but to unstage all files and keep changes

**git reset .**

1. Discard changes to all unstaged files

**git checkout .**

1. Auto-resolve merge conflicts on all unmerged files

**grep -lr '<<<<<<<' . | xargs git checkout --ours**

**OR**

**grep -lr '<<<<<<<' . | xargs git checkout --theirs**

1. Edit last commit message

**git commit --amend**

1. Delete branch upstream

**git push --delete *origin branch-name***

1. Discard all tracked and uncommitted changes

**git reset --hard**

1. Discard all untracked files

**git clean -*fdn***

* ***f*** *is force*
* ***d*** *is directory*
* ***n*** *is to preview (remove* ***n*** *to actually clean)*
* ***x*** *is to remove ignored files*

1. Revert to a previous commit and keep all new local commits

**git revert *commit-number***

1. Reset to a previous commit (**git reset** loses all newer local commits if viewed via **git log**)

**git reset --hard *commit-number***

1. Reset to a commit but leave files staged

**git reset --soft *commit-number***

1. Reset to a commit but leave files unstaged

**git reset --mixed *commit-number***

1. Reset local branch to match upstream branch exactly

**git pull**

**git reset --hard *origin/branch-name***

1. View lost commits after using **git reset**

**git reflog**

1. Create branch from another branch

**git checkout -b *new-branch old-branch***

1. Grab commit from another branch

**git cherry-pick *commit-number-from-other-branch***

1. Checkout another file from another branch

**git checkout *local-branch-name* -- *local-file.txt***

**git checkout *origin/upstream-branch-name* -- *upstream-file.txt***

1. **Todo: ~, ^, rebase, squash, 🔄**

**Vim Voodoo**

1. Replace substring everywhere

**:%s/*old substring*/*new substring*/g**

1. Search for substring

**:/*Search Term***

Press **n** to go to next matching result, and **N** to go to previous match.

1. By default, all searches are case-sensitive. To toggle case sensitivity

**:set ignorecase \*\*OR\*\* :set ic**

**:set noignorecase \*\*OR\*\* :set noic**

1. Other commands:

**CTRL+Z** - Temporarily suspend a process, e.g., Vim

**fg** - Resume (bring to foreground) a process, e.g., Vim

**yw** - Copy word

**yy** - Copy line

**p** - Paste

**a** - Append (alternative to **i** for insert)

**u** - Undo previous command

**CTRL+R** - Redo; press **.** to repeat redo at cursor

**x** - Delete a character

**dw** - Delete a word

**dd** - Delete a line

**d$** - Delete from cursor to end of line

**O** - Insert line above

**o** - Insert line below

**0** - Move cursor to start of line

**$** - Move cursor to end of line

**gg** - Move cursor to start of first line

**G** - Move cursor to start of last line

1. **Todo: Probably not very much... 😅**

**Nano Necromancy**

**You’re on your own 😊**

**Emacs Enchantments**

**Ask Shakil 🌮**

**Regex Runes**

**Runecrafting is a pay-to-win skill ⚖️**

**Windows Command Prompt Witchcraft**

**We don’t talk about this 🚮**