CHEAT SHEET: BASH

THE BOURNE-AGAIN SHELL

Navigating

pwd Print working directory
cd Change directory
    ~   Home directory
    -   Previous working directory
  ~*username*   Home directory of *username*

Exploring

ls List directory contents
  -a   Include hidden content
  -h   Human readable format
  -i   Show inode number
  -l   Long format
  -r   Reverse order
  -S   Sort by file size
  -t   Sort by modification time
file Determine a file's type
less Show file

Manipulating

cp Copy files and directories
  -a   All attributes, ownerships, permissions
  -i   Prompt for confirmation (interactive)
  -r   Recursive
  -u   Only copy new/newer files (update)
  -v   Show informative messages (verbose)

mv Move/rename files and directories
  see cp: -i, -u, -v
mkdir Create directories
rm Remove files and directories
  -f   Ignore nonexisting files, don't prompt
  see cp: -i, -r, -v
ln Create hard and symbolic links
  -s   Symbolic link

Wildcards

* Any characters
? Any single character
[*chars*] Any character from *chars*
[!*chars*] Any character not from *chars*
[:*class*:] Any character from *class*

Misc

echo Display a line of text
which Show program to be executed
man Show command manual page
apropos List appropriate commands
info Show information about command
whatis Brief description of command
alias Create alias for command

Redirecting

cat Concatenate files
sort Sort lines of text
uniq Report or omit repeated lines
  -d   Show duplicates
wc Newline, word and byte counts for each file
  -l   Only count lines
grep Print lines matching a pattern
  -i   Ignore case sensitivity
  -v   Show non-matching lines
head Output first part of a file
tail Output last part of a file
tee Write stdin to file *and* to stdout
| Pipe stdout to stdin
> Redirect (and overwrite) stdout
>> Redirect (and append) stdout
2> Redirect stderr (standard error)

Expanding

$(*command*) *Command* output as expansion
$((*expression*)) Arithmetic expression
{a,b,c} Create multiple strings 'a' 'b' 'c'
{a..z} Create multiple strings 'a' to 'z'

WORK IN PROGRESS…