

### Commonly Used

|             |                                  |                                               |
|-------------|----------------------------------|-----------------------------------------------|
| man         | Information about a              | -f: summary -k : search for words             |
| cp          | copy a to b                      | -R: recursive -p: keep permissions            |
| mv          | moves x to y                     | -f: force -b: create copy also                |
| mkdir       | makes directory                  | -p: also path to it -m: permissions           |
| rm          | removes file or folder           | -r: recursive, -i: warns about each file      |
| cd          | -P: physical -L: logical         | cd -: previous cd ~: to home                  |
| df          | file information                 | -h: human readable -i: metadata               |
| ps          | information on process           | -a: all in terminal, -T: threads etc.         |
| uniq        | removes non-unique lines         | eg: a.txt   unique   less                     |
| head / tail | displays first/last part of file |                                               |
| wc          | information on text in file      | -c: bytes, -w: words -l: lines                |
| echo        | repeat                           | -n: no linebreak, -e: interpret special chars |

### Pipes & Output

**Pipe**  
**cmd1 | cmd2** = Send stdout of cmd1 to cmd2

**Redirecting Output**  
*Symbol Description*  
 > Redirect stdout (overwrite)  
 >> Redirect stdout (append)  
 2> Redirect stderr  
 2>> Append stderr  
 &> Redirect both stdout and stderr  
 2>&1 Redirect stderr to stdout

**Special File Descriptors**  
*FD Description*  
 0 stdin

### Pipes & Output (cont)

1 stdout  
 2 stderr

### Diverse

|            |                                          |                                                   |
|------------|------------------------------------------|---------------------------------------------------|
| uname      | System/kernel info                       | -a: all info, -r: kernel version                  |
| uptime     | How long system been up                  |                                                   |
| top / htop | system monitor                           |                                                   |
| ifconfig   | network interfaces                       | (older version)                                   |
| ip         | replaces ifconfig                        | ip a: addresses, ip r: routes                     |
| netstat    | Show open ports and connections          |                                                   |
| curl       | Fetch data from URLs                     |                                                   |
| wget       | Download files                           |                                                   |
| du         | Disk usage                               | du -h: human-readable sizes, du -sh * for summary |
| kill       | Terminate by PID                         |                                                   |
| killall    | Kill processes by name                   | e.g. killall firefox                              |
| tee        | Output to screen and file simultaneously |                                                   |
| diff       | Compare files line-by-line               |                                                   |

### Grep

#### grep str file

*grep johan /etc/passwd*  
 -i: case insensitive  
 -v: show non-matching lines  
 -q: silent, can be passed with \$?  
 -r: search recursively in folder  
 -w: search for complete word (not substr)  
 -E: search for two terms: grep -E "average|mean" file.txt

### Find

**find [options] [path...] [expression]**  
*find -L /var/www -name "\*.js"*  
 -L : Follow symbolic links  
 -type f : search for file or [f: file, d: dir, l: symbolic link...]  
 -name <name>: name of file to search for  
 -iname <name>: name of file to search for (case-insensitive)

### Tar & gz

**tar [options] [archive-file] [file(s)/dir(s)...]**  
 eg: *tar -cvf archive.tar file1 file2*  
 eg: *tar -xvf archive.tar*  
 -c : Create a new archive  
 -x : Extract files from an archive  
 -v : Verbose output (list files being processed)  
 -f <file>: Use archive <file> name  
 -z : Use gzip compression (for .tar.gz or .tgz)  
**Gzip Compression (.gz)**  
*gzip file.txt* Compress file.txt → file.txt.gz  
*gzip -k file.txt* Compress but keep original file  
*gzip -r folder/* Recursively compress all files in folder  
*gunzip file.txt.gz* Decompress .gz back to original file

### File Permissions

*Permissions are defined for 3 groups: [ User ] [ Group ] [ Others ]*  
**r = read (4)**  
**w = write (2)**  
**x = execute (1)**  
**- = no permission (0)**  
 Order: rwx  
 To set permission: **chmod [u][g][o]** (eg: *chmod 740 <file> / chmod rwxr----- <file>*)



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Page 1 of 2.

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### xargs

#### xargs – Turn Input Into Arguments

*Example Command Description*

`find . -name "*.log" | xargs rm` Delete all .log files

`echo "file1 file2" | xargs ls -l` Run `ls -l` on each file

`cat list.txt | xargs -n 1 echo` Print each line as argument separately

`find . -name "*.jpg" | xargs -l{} mv {} images/`  
Move files with placeholders

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Page 2 of 2.

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