**CHEATSHEET FOR**

# *Command line Stuff*

## *List (ls)*

```
ls [options] [paths]
```

## Format

| | |
|---|---|
| `-1` | One entry per line |
| `-l` | Long view |
| `-o` | Long view (without groups) |
| `-C` | Multicolumn (sorted horizontally) |
| `-x` | Multicolumn (sorted vertically) |
| `-F` | Add / after directories |
| `-G` | Color |

## Options

| | |
|---|---|
| `-R` | Recurse |
| `-a` | Include hidden (dotfiles) |
| `-A` | Include hidden (but not . and ..) |

## Sorting

| `-r` | reverse order |
|------|---------------|
| `-S` | sort by size |
| `-t` | sort by time modified |
| `-u` | sort by time accessed |
| `-U` | sort by time created |
| `-c` | sort by time status was changed |
| `-h` | Human-readable size (3k) |

# *Tail*

```
tail [-F | -f | -r] [-bN | -cN | -nN] [file ...]
```

## Modes

| `-f` | follow |
|------|--------|
| `-F` | follow by filename (accounts for log rotation) |
| `-r` | Reverse order |

## Options

| `-bN` | N*512 bytes |
|-------|-------------|

| | |
|---|---|
| `-cN` | N bytes |
| `-nN` | N lines |
| `+N` | Start from line N |

# *Sudo*

```
sudo [options] <command>
```

## Listing

| | |
|---|---|
| `-l` | List allowed commands |

## Options

| | |
|---|---|
| `-A` | Use $SUDO_ASKPASS |
| `-b` | Run in background |
| `-E` | Preserve environment |
| `-H` | use target's $HOME |
| `-n` | Don't prompt for password |
| `-P` | Preserve group vector |
| `-S` | Read password from stdin |

## File descriptors

| | |
|---|---|
| `-C fd` | Close all open file descriptors |

## Prompt

| | |
|---|---|
| `-p prompt` | Custom prompt (-p "%p password:") |

## Interactive

| | |
|---|---|
| `-i [cmd]` | Interactive shell without variables |
| `-s [cmd]` | Interactive shell |
| `-u user` | run as this user |
| `-g group` | run as this group |

## Timestamp

| | |
|---|---|
| `-v` | revalidate timestamp for 5 mins |
| `-k` | invalidate timestamp |
| `-K` | just like -k |

# *wc (Word count)*

```
... | wc [options]
```

| -c | Bytes |
| --- | --- |
| -l | Lines |
| -m | Characters (incl multi-byte) |
| -w | Words |

## Search-and-replace in all files

```
perl -p -i -e 's/hello/HELLO/g' **/*
```

## Grep

```
grep [options] [pattern] [file ...]
```

### Options

| -A num | Print num lines of training context |
| --- | --- |
| -G | –basic-regexp (default) |
| -E | –extended-regexp |
| -P | –perl-regexp |

| | |
|---|---|
| `-f file` | –file (Get patterns for file) |
| `-F` | –fixed-strings |
| `-h` | –no-filename |
| `-H` | –with-filename |
| `-l` | –files-with-matches (just print filenames) |
| `-L` | –files-without-match |
| `-r, -R` | –recursive |
| `-v` | –invert-match |
| `-i` | –ignore-case |

## Synonyms

```
egrep  =>  grep -E
fgrep  =>  grep -F
```