# Bash Cheatsheet

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#### Files & Directories 1

cat a	print a
cd dir/	go to dir/
cd	go to parent dir
pwd	print current dir
cp a b	copy a to b
cp a dir/	copy a into dir/
cp -r sub/ dir/	copy sub/ into dir/
mv a b	rename a to b
mv a dir/	move a into dir/
mv sub/ dir/	move sub/ into dir/
rm a	remove a
rm -r dir/	remove dir/
ls	list files
ls -a	list files, incl. hidden
ls -l	list files, show details
ls dir/	list files under dir/
mkdir dir/	create dir/
mkdir -p dir/sub/	create dir/sub/ directly

#### 2 Utilities

head -n 5 a	print first 5 lines of a
grep pattern files	grep for pattern in files
grep -i	ignore case
grep -v	invert match
grep -o	only show matched part
grep -E	extended regex
sort file	sort lines in file
sort -f	ignore case
sort -n	numerical order
sort -r	reverse
uniq	remove duplicate lines
comm -12 a b	print lines in both a and b
diff a b	difference between a and b

#### 3 Ctrl+

clear screen

delete one word to the left delete everything to the left U K delete everything to the right 7 undo С abort search history

## Regex (ERE) 4

### Scripting 5

```
if [[ \underline{\text{TEST}} ]]; then BODY; fi
 -eq -ne -le -lt -ge -gt
             \leq < \geq
 -z $a
            empty string
 -n $a
            not empty string
 $a = $b
            strings are the same
 $a != $b strings are different
 -e $file file exists
 -f $file is regular file
 -d $dir
            is directory
if (( TEST )); then BODY; fi
 %
             modulo
 **
             exponentiation
 == !=
             =\neq
 < > <= >=
             <><>
 && ||
             logical AND/OR
for VAR in LIST; do BODY; done
 {01..10}
               01, 02, \ldots, 10
```

{2..10..2}  $2, 4, \ldots, 10$ output of command \$()

If necessary, IFS= $$'\n'$