

UNIX Cheat Sheet

(adapted from Treebeard's Unix Cheat Sheet, <http://www.rain.org/~mkummel/unix.html>)

Help on any Unix command.

```
man {command}
```

Type **man ls** to read the manual for the **ls** command.

```
man {command} > {filename}
```

Redirect help to a file to download.

List a directory

```
ls {path}
```

It's ok to combine attributes, eg **ls -laF** gets a long listing of all files with types.

```
ls {path_1} {path_2}
```

List both {path_1} and {path_2}.

```
ls -l {path}
```

Long listing, with date, size and permissions.

```
ls -a {path}
```

Show all files, including important .dot files that don't otherwise show.

```
ls -F {path}
```

Show type of each file. "/" = directory, "*" = executable.

```
ls -R {path}
```

Recursive listing, with all subdirs.

```
ls {path} > {filename}
```

Redirect directory to a file.

```
ls {path} | more
```

Show listing one screen at a time.

Change to directory

```
cd {dirname}
```

There must be a space between.

```
cd ~
```

Go back to home directory, useful if you're lost.

```
cd ..
```

Go back one directory.

Make a new directory

```
mkdir {dirname}
```

Remove a directory

```
rmdir {dirname}
```

Only works if {dirname} is empty.

```
rm -r {dirname}
```

Remove all files and subdirs. Careful!

Print working directory

```
pwd
```

Show where you are as full path. Useful if you're lost or exploring.

Change user password

```
passwd
```

Change user password

Copy a file or directory

```
cp {file1} {file2}
```

```
cp -r {dir1} {dir2}
```

```
cat {newfile} >> {oldfile}
```

Recursive, copy directory and all subdirs.

Append newfile to end of oldfile.

Move (or rename) a file

```
mv {oldfile} {newfile}
```

```
mv {oldname} {newname}
```

Moving a file and renaming it are the same thing.

Delete a file

```
rm {filespec}
```

```
ls {filespec}
```

```
rm {filespec}
```

? and * wildcards: "?" is any character; "*" is any string of characters.

Good strategy: first list a group to make sure it's what's you think...
...then delete it all at once.

View a text file

```
more {filename}
```

```
less {filename}
```

```
cat {filename}
```

```
cat {filename} | more
```

View file one screen at a time.

Like **more**, with extra features.

View file, but it scrolls.

View file one screen at a time.

Create and edit a text file.

```
emacs {filename}
```

```
pico {filename}
```

```
vi {filename}
```

Compare two files

```
diff {file1} {file2}
```

```
sdiff {file1} {file2}
```

Show the differences.

Show files side by side.

Other text commands

<code>grep '{pattern}' {file}</code>	Find regular expression in file.
<code>sort {file1} > {file2}</code>	Sort file1 and save as file2.
<code>sort -o {file} {file}</code>	Replace file with sorted version.
<code>spell {file}</code>	Display misspelled words.
<code>Wc {file}</code>	Count words in file.

Find files on system

<code>find {filespec}</code>	Works with wildcards. Handy for snooping.
<code>find {filespec} > {filename}</code>	Redirect find list to file. Can be big!

Make an Alias

<code>alias {name} '{command}'</code>	Put the command in 'single quotes'. More useful in your <code>.cshrc</code> file.
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Wildcards and Shortcuts

<code>*</code>	Match any string of characters, eg page* gets page1, page10, and page.txt.
<code>?</code>	Match any single character, eg page? gets page1 and page2, but not page10.
<code>[...]</code>	Match any characters in a range, eg page[1-3] gets page1, page2, and page3.
<code>~</code>	Short for your home directory, eg cd ~ will take you home, and rm -r ~ will destroy it.
<code>.</code>	The current directory.
<code>..</code>	One directory up the tree, eg ls ..

Pipes and Redirection

	(You pipe a command to another command, and redirect it to a file.)
<code>{command} > {file}</code>	Redirect output to a file, eg ls > list.txt writes directory to file.
<code>{command} >> {file}</code>	Append output to an existing file, eg cat update >> archive adds update to end of archive.
<code>{command} < {file}</code>	Get input from a file, eg sort < file.txt
<code>{command} < {file1} > {file2}</code>	Get input from file1, and write to file2, eg sort < old.txt > new.txt sorts old.txt and saves as new.txt.
<code>{command} {command}</code>	Pipe one command to another, eg ls more gets directory and sends it to more to show it one page at a time.

