

Command Line Cheat Sheet

Directories

Display path of present working directory

```
$ pwd
```

Change directory to <directory>

```
$ cd <directory>
```

Navigate to parent directory

```
$ cd ..
```

List directory content

```
$ ls
```

List detailed directory contents, including hidden files

```
$ ls -la
```

Create new directory named <new_directory>

```
$ mkdir <new_directory>
```

Output

Output the contents of <file>

```
$ cat <file>
```

Output new lines of <file> as it grows

```
$ tail -f <file>
```

Output the contents of <file> using the less command (support for pagination)

```
$ less <file>
```

Output the first 10 lines of <file>

```
$ head <file>
```

Direct the output of <cmd> into <file>

```
$ <cmd> > <file>
```

Append the output of <cmd> to <file>

```
$ <cmd> >> <file>
```

Direct the output of <cmd1> to <cmd2>

```
$ <cmd1> | <cmd2>
```

Clear the command line window

```
$ clear
```

Files

Delete <file>

```
$ rm <file>
```

Delete <directory>

```
$ rm -r <directory>
```

Force-delete <file> (add -r for a directory)

```
$ rm -f <file>
```

Rename <old-file> to <new-file>

```
$ mv <old-file> <new-file>
```

Move <file> to <directory>

```
$ mv <file> <directory>
```

Copy <file> to <directory>

```
$ cp <file> <directory>
```

Copy <directory1> and its content to <directory2>

```
$ cp -r <directory1> <directory2>
```

Update file access and modification time (create <file> if it does not exist)

```
$ touch <file>
```

CRYSTAL

Run a CRYSTAL calculation (omit <file> extensions)

```
$ runCRY23 <file>
```

Run a CRYSTAL calculation with a restart option (omit <file> and <restart_file> extensions)

```
$ runCRY23 <file> <restart_file>
```

Run a PROPERTIES calculation (omit <file> and <restart_file> extensions)

```
$ runPROP23 <file> <restart_file>
```

Search

Find all files named <file> inside <dir>

```
$ find <dir> -name "<file>"
```

Output all occurrences of <text> inside <file> (add -i for case insensitive)

```
$ grep "text" <file>
```

Networking

Ping <host> and display status

```
$ ping <host>
```

Output whois information for <host>

```
$ whois <file>
```

Establish an ssh connection to <host> with user <username>

```
$ ssh <username>@<host>
```

Copy <file> to a remote <host>

```
$ scp <file> <username>@<host>://remote/path
```

git

Update local folder

```
$ git pull
```

Clone an entire repository from <url>

```
$ git clone <url>
```

Get latest state from remote repository

```
$ git fetch origin
```

Reset local branch to exactly match the remote main branch

```
$ git reset --hard origin/main
```

Remove all untracked files, directories and ignored files

```
$ git clean -fdx
```