

### Basic File Management

cp file name [-r creates destination]

mv Linux Command Cheatsheet to Linux | is also for renaming

add -i, -n or -v | ask first, no overwrite, show result

cat filename | opens the file to read

less | breaks results down into pages

mkdir/rm directory

rm

cd

touch | creates a new file

### Listing Files

-h | human readable

-d | lists the details

-R | recursive [all sub-directories]

-s | sorts by name

-t | sorts by time

### Working with File Permissions

chmod 777 | assign read, write & execute to all users  
[name of file]

chmod 755 | read, write & execute for owner - read & execute for all other users  
[name of file]

chmod 766 | full permission to owner - read and write to others  
[name of file]

chown | change ownership

[OPTIONS] [OWNER] FILE

### File Compression

gzip | common compression tool

gunzip

### File Archiving

tar -cvf mybackups/udev.tar /etc/udev

-c option tells the tar command to create a tar file.

-v option stands for "verbose", which instructs the tar command to demonstrate what it is doing.

-f option is used to specify the name of the tar file.

### Review Archive Contents

tar -tvf mybackups/udev.tar

### Create a Compressed Archive

tar -zcvf mybackups/udev.tar.gz | create an archive  
/etc/udev

tar -xvf udev.tar.gz | extract an archive

tar -rvf udev.tar /etc/hosts | add a file to existing archive

### File type descriptors

| Symbol | File Type      | Description                                                                |
|--------|----------------|----------------------------------------------------------------------------|
| d      | directory      | A file used to store other files.                                          |
| -      | regular file   | Includes readable files, images files, binary files, and compressed files. |
| l      | symbolic link  | Points to another file.                                                    |
| s      | socket         | Allows for communication between processes.                                |
| p      | pipe           | Allows for communication between processes.                                |
| b      | block file     | Used to communicate with hardware.                                         |
| c      | character file | Used to communicate with hardware.                                         |

### File Type

- rw-r--r-- 1 root root 15322 Dec 10 21:33 alternatives.log

d rwxr-xr-x 1 root root 4096 Jul 19 06:52 apt

### Permissions

d rwxr-xr-x 2 root root 4096 Jul 19 06:51 journal

### Hard Link Count

-rw-r----- 1 syslog adm 371 Dec 15 16:38 auth.log

drwxr-xr-x 2 root root 4096 Jul 19 06:51 journal

### User Owner

-rw-r----- 1 **syslog** **adm** 197 Dec 15 16:38 cron.log



### Group Owner

```
-rw-rw-r-- 1 root utmp 292584 Dec 15 16:38 lastlog
```

### Timestamp

```
-rw-rw---- 1 root utmp 0 May 26 2018 btmp
```

### File Size

```
-rw-r----- 1 syslog adm 14185 Dec 15 16:38 syslog
```

Displays the size of the file in bytes.

### File Name

```
-rw-r--r-- 1 root root 35330 May 26 2018 bootstrap.log
```

In the case of symbolic links, the link name is displayed along with an arrow and the pathname of the original file.

```
lrwxrwxrwx. 1 root root 22 Nov 6 2018 /etc/grub.conf -> ../boot/grub/grub.conf
```



By Mary F. Smith (boogie)  
[cheatography.com/boogie/](https://cheatography.com/boogie/)

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