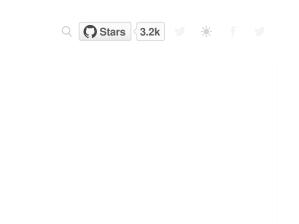
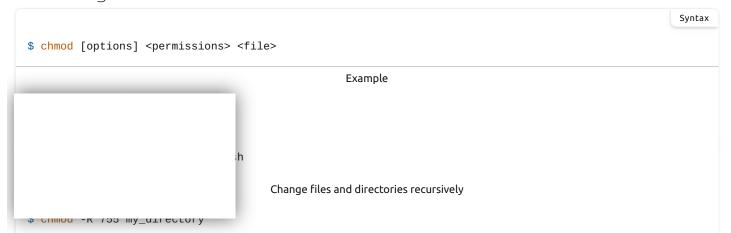
${\bf Quick Ref. ME}$ 



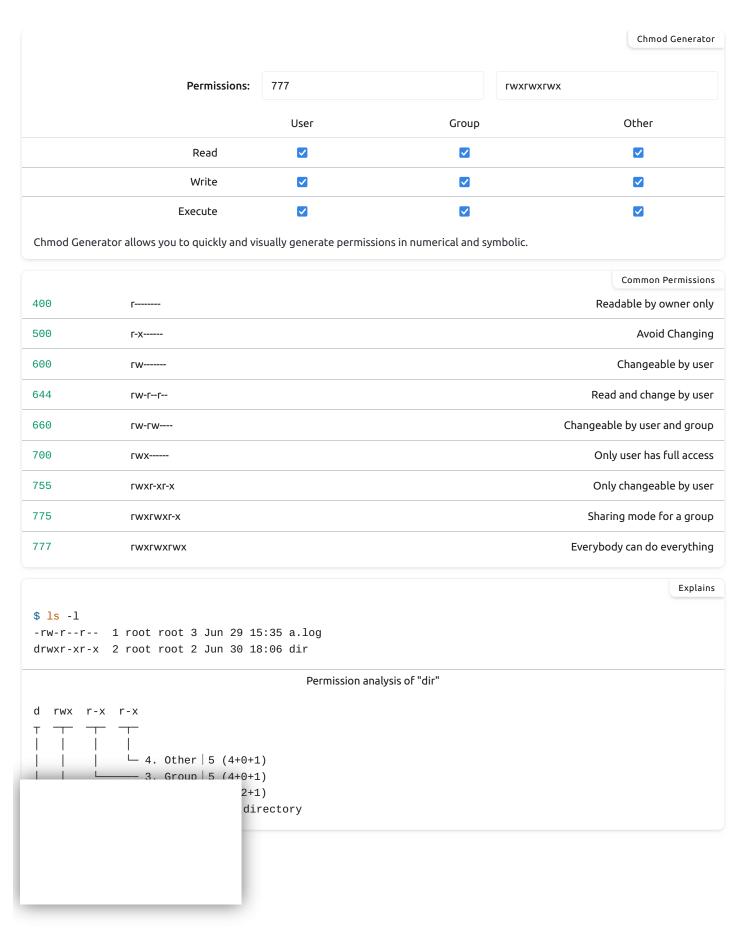
## Chmod

This quick reference cheat sheet provides a brief overview of file permissions, and the operation of the chmod command

## # Getting Started



(x)



Permission Mode			
Decima	Octal	Description	Permission
0 (0+0+0	000	No Permission	
1 (0+0+1	001	Execute	X
2 (0+2+0	010	Write	-W-
3 (0+2+1	011	Execute and Write	-WX
4 (4+0+0	100	Read	r
5 (4+0+1	101	Read and Execute	r-x
6 (4+2+0	110	Read and Write	rw-
7 (4+2+1	111	Read, Write and Execute	rwx
Objec			
Meanin			Who (abbr.)
Use			u
Grou			g
Other			0
All, same as ug			a
Permission			
Valu		Permission	Abbreviation
		Read	r
		Write	Ν
		Execute	X
		No permission	-
File Type			
File Typ			Abbreviation
Director		amnles	Chmod Exa
Operato			
Ad			
Remov			
Se			

```
chmod 600
$ chmod 600 example.txt
$ chmod u=rw, g=, o= example.txt
$ chmod a+rwx,u-x,g-rwx,o-rwx example.txt
                                                                                                            chmod 664
$ chmod 664 example.txt
$ chmod u=rw,g=rw,o=r example.txt
$ chmod a+rwx,u-x,g-x,o-wx example.txt
                                                                                                            chmod 777
$ chmod 777 example.txt
$ chmod u=rwx,g=rwx,o=rwx example.txt
$ chmod a=rwx example.txt
                                                                                                         Symbolic mode
Deny execute permission to everyone.
$ chmod a-x chmodExampleFile.txt
Allow read permission to everyone.
$ chmod a+r chmodExampleFile.txt
Make a file readable and writable by the group and others.
$ chmod go+rw chmodExampleFile.txt
Make a shell script executable by the user/owner.
$ chmod u+x chmodExampleScript.sh
Allow everyone to read, write, and execute the file and turn on the set group-ID.
$ chmod =rwx,g+s chmodExampleScript.sh
```

```
Removing Permissions
 In order to remove read write permissions given to a file, use the following syntax:
 $ chmod o-rw example.txt
 For our file example.txt, we can remove read write permissions using chmod for group by running the following command:
 $ chmod g-rx example.txt
 To remove chmod read write permissions from the group while adding read write permission to public/others, we can use the following
 $ chmod g-rx, o+rx example.txt
# Chmod Practices
                                                                                                    SSH Permissions
 $ chmod 700 ~/.ssh
                                                                                                       Executable
 $ chmod 600 ~/.ssh/authorized_keys
 $ chmod 600 ~/.ssh/id_rsa
 $ chmod 600 ~/.ssh/id_rsa.pub
 $ chmod 400 /path/to/access_key.pem
                                                                                                   Web Permissions
 $ chmod -R 644 /var/www/html/
 $ chmod 644 .htaccess
 $ chmod 644 robots.txt
 $ chmod 755 /var/www/uploads/
 find /var/www/html -type d -exec chmod 755 {} \;
                                                                                                     Batch Change
 $ chmod -R 644 /your_path
 $ find /path -type d -exec chmod 755 {} \;
 $ find /path -type f -exec chmod 644 {} \;
 See: Command Substitution
                                   om)
```



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