

# Permissions

Permissions determine who can read a file or directory, write to it, and execute it.

```
-rwxr-xr-- 1 burak burak 656 Jul 14 10:05 qeinput.py
drwxr-xr-- 1 burak burak 656 Jul 14 10:05 inputs_folder
-rw-rw-r-- 1 burak burak 547 Jul 14 10:05 scf.in
```

— — — — —

- : is equal to d if directory
- : owner read, write, execute
- : group read, write, execute
- : others read, write, execute




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Numerical values for each permission:

**Read = 4, Write = 2, Execute = 1**

Add the number value of the permissions you want to grant each group to make a three digit number, one digit each for the owner, the group, and the world. Use `chmod` command with the numerical value to assign the permission:

```
chmod 600 filename - rw- --- --- User can r&w (4+2)
chmod 700 filename - rwx --- --- User can r&w&x (4+2+1)
chmod 644 filename - rw- r-- r-- User r&w (4+2), group r (4),
                                others r (4)
chmod 755 filename - rwx r-x r-x User r&w&x (4+2+1), group r&x
                                (4+1), others r&x (4+1)
```

The logo for the Center for Scientific Computing (CSC) at the University of California Santa Barbara. It features the letters 'CSC' in a bold, white, sans-serif font on a dark background.A banner for the University of California Santa Barbara Center for Scientific Computing. It features a dark background with a blue and green light effect. The text 'UNIVERSITY OF CALIFORNIA SANTA BARBARA' and 'CENTER FOR SCIENTIFIC COMPUTING' is displayed in white, uppercase letters on the right side.

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Another way:

Specifically change permissions with letters:

u = user    g = group    a = others  
r = read    w = write    x = execute

chmod u+rx filename    Give user r&x

chmod u+x filename    Give user x

chmod a+rw filename    Give others r&w

chmod a-x filename    Take x away from others

