

File Permissions I

- In *NIX OS's, you have three types of file permissions
 - 1 read (r)
 - 2 write (w)
 - 3 execute (x)
- for three types of users
 - 1 user
 - 2 group
 - 3 world i.e. everyone else who has access to the system

drwxr-xr-x.	2	user	user	4096	Jan	28	08:27	Public
-rw-rw-r--.	1	user	user	3047	Jan	28	09:34	README

- The first character signifies the type of the file
 - d for directory
 - l for symbolic link
 - for normal file
- The next three characters of first triad signifies what the owner can do
- The second triad signifies what group member can do

- shmod 751 filename

Instead of using num

- ```
.. /m/c on c user/group/world on all : c use
```

Add/remove permission

**need /write/execute**

# File Permissions III

- Give everyone execute permission:

```
chmod a+x hello.sh
```

```
chmod ugo+x hello.sh
```

- Remove group and world read & write permission:

```
chmod go-rw hello.sh
```

- Use the **-R** flag to change permissions recursively, all files and directories and their contents.

```
chmod -R 755 ${HOME}/*
```

What is the permission on `${HOME}`?

If you want to share your files with your friends

- 1 Make your home directory read accessible to the world

```
chmod 755 ${HOME}
```

DO NOT USE THE RECURSIVE **-R** FLAG

- 2 Change to your home directory and give read access to the directory that you want to share using the **-R** flag