

# Permissions for Directories

The same series of permissions may be used for directories but they have a slightly different behaviour.

```
r - you have the ability to read the contents of the directory (ie do an ls)
w - you have the ability to write into the directory (ie create files and directories)
x - you have the ability to enter that directory (ie cd)
```

Example:

```
ls testdir (list testdir contents)
file1 file2 file3
chmod 400 testdir (400 is 100000000) so r--- --- ---
cd testdir (change directory to testdir)
-bash: cd: testdir: Permission denied
```

```
chmod 100 stops access to a directory
```

Example2:

```
chmod 100 testdir - (100 = 001000000 or --x --- --- so execute rights only)
ls testdir
ls: cannot open directory testdir: Permission denied
cd testdir - I can't list the director, but I can change to it
cat file1 - and I can view a file I know exists!
this is a test file
you have opened it
```

I am sure I'll find a use for that? :)

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