

File permissions | symbolic and numeric notations

Linux File Permissions | Symbolic Notation

Table 5-2 Symbolic notation

Category	Operator	Permission
u (user)	+ (add to existing permissions)	r (read)
g (group)	- (remove from existing permissions)	w (write)
o (other)	= (assign absolute permissions)	x (execute)
a (all)	One of the preceding operators	One or more of the preceding permissions

Examples:

- `chmod u+x script.sh`
- `chmod o-x script.sh`
- `chmod u=rwx,g=rw,o=r script.sh`

Linux File Permissions | Numeric Notation

Table 5-3 Numeric notation

Permission	Numeric value
---	0
--X	1
-W-	2
-WX	3
IX--	4
IX-X	5
IXW-	6
IXWX	7

Permission	Value
Read	4
Write	2
Execute	1

Example:

```
chmod 766 script.sh
chmod 700 script.sh
chmod 555 script.sh
```