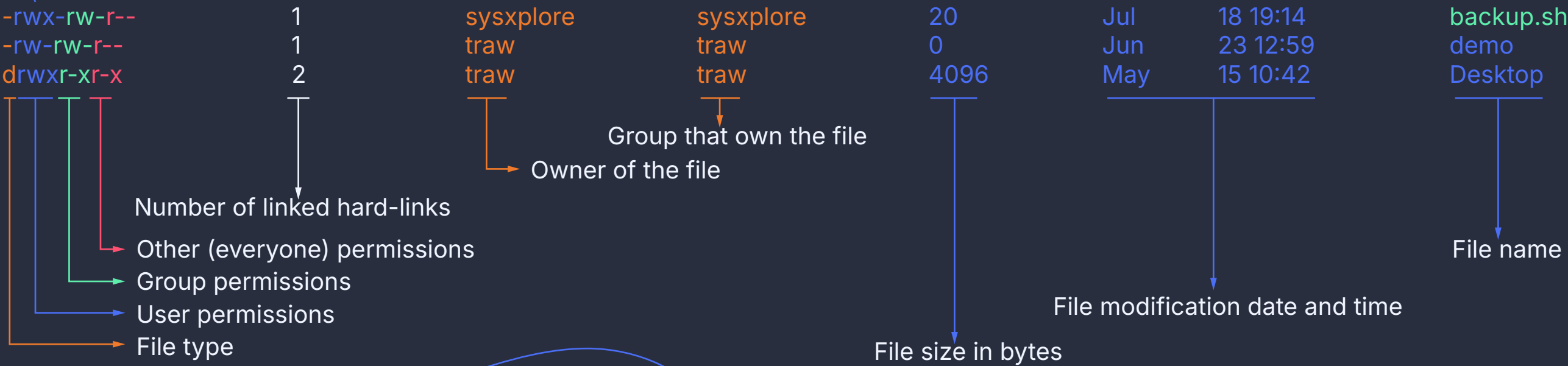


LINUX FILE PERMISSIONS

```
sysxplore@zorinos:~$ ls -l
total 93792
```

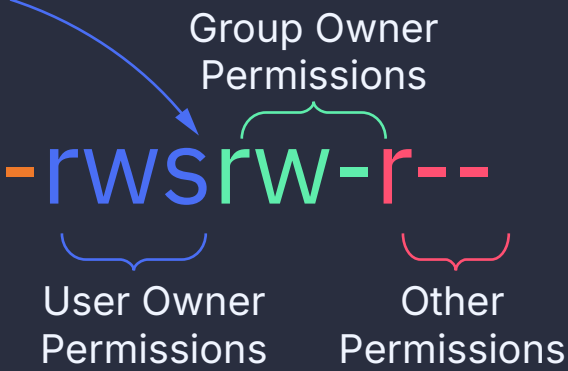


r	Read	4		7
w	Write		2	
x	Execute		1	

r	Read	4	6
w	Write		
-	No permission	0	

r	Read	4	4
-	No permission	0	
-	No permission	0	

SUID Permission



```
$ chmod u+s file
```

SGID Permission



```
$ chmod g+s directory_name
```

Sticky Bit Permission



```
$ chmod +t directory_name
```

Binary	Octal	Permissions	Representation
000	0 (0+0+0)	No Permission	---
001	1 (0+0+1)	Execute	--x
010	2 (0+2+0)	Write	-w-
011	3 (0+2+1)	Write + Execute	-wx
100	4 (4+0+0)	Read	r--
101	5 (4+0+1)	Read + Execute	r-x
110	6 (4+2+0)	Read + Write	rw-
111	7 (4+2+1)	Read + Write + Execute	rwX

Owner			Group			Other		
r	w	x	r	w	x	r	w	x
S	s		S	s		T	t	

@sysxplore

Capital S is an error it occurs if you set SUID bit or SGID bit to a file without execute (x) bit set

Capital T is an error it occurs if you set Sticky bit to a file without execute (x) bit set