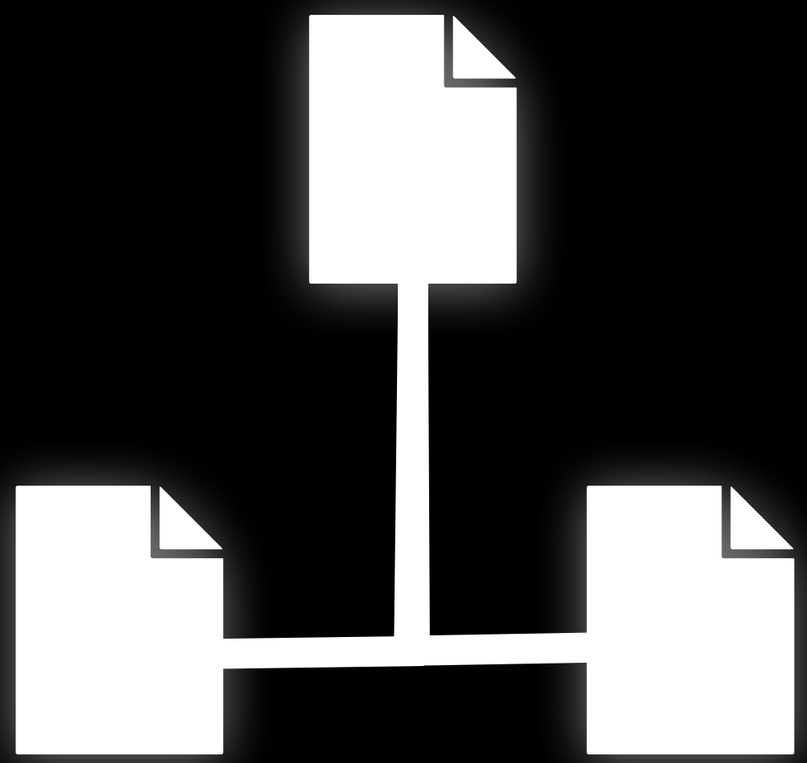
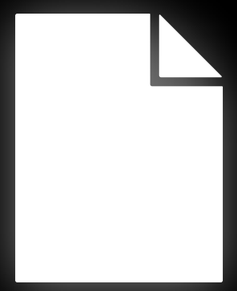
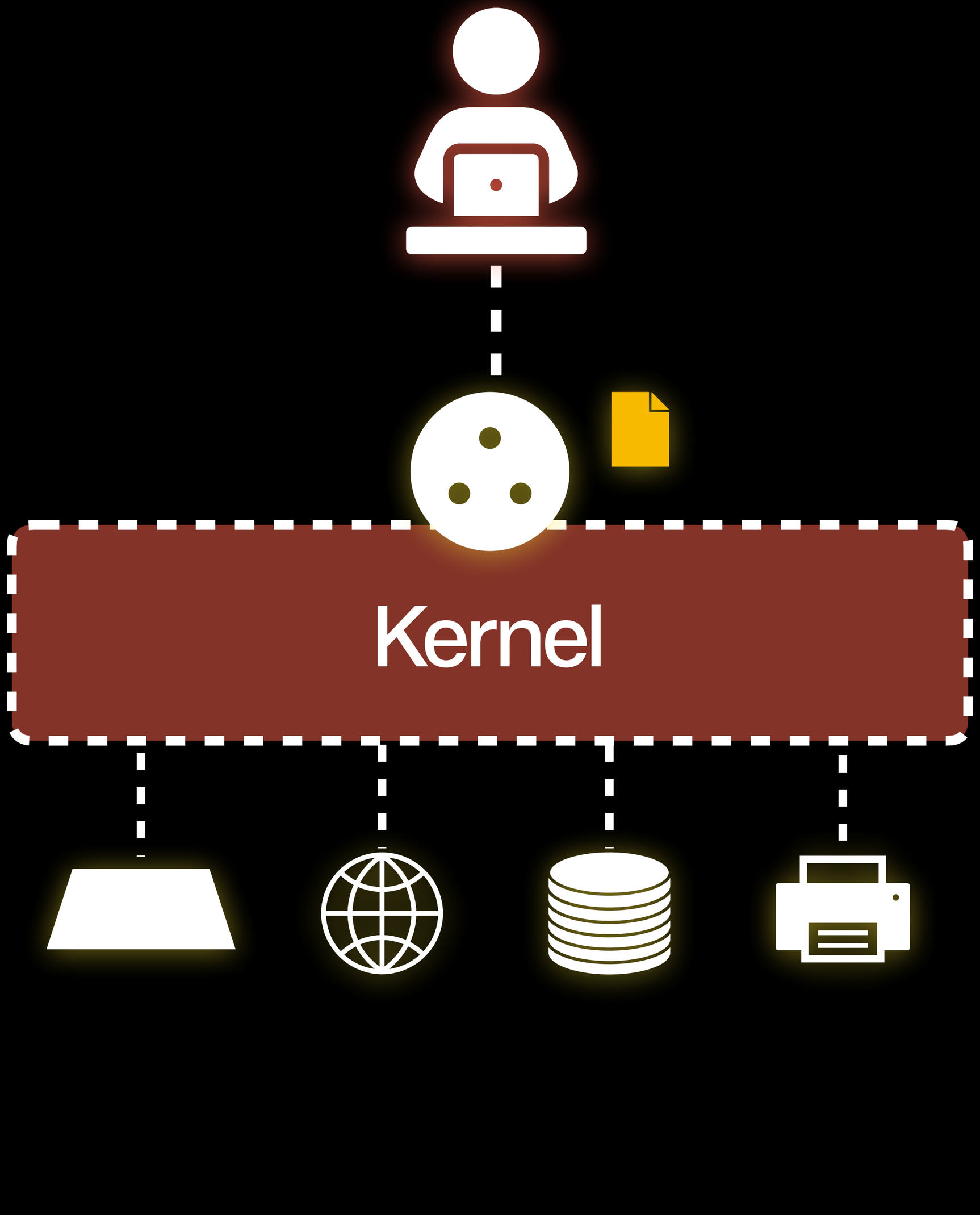
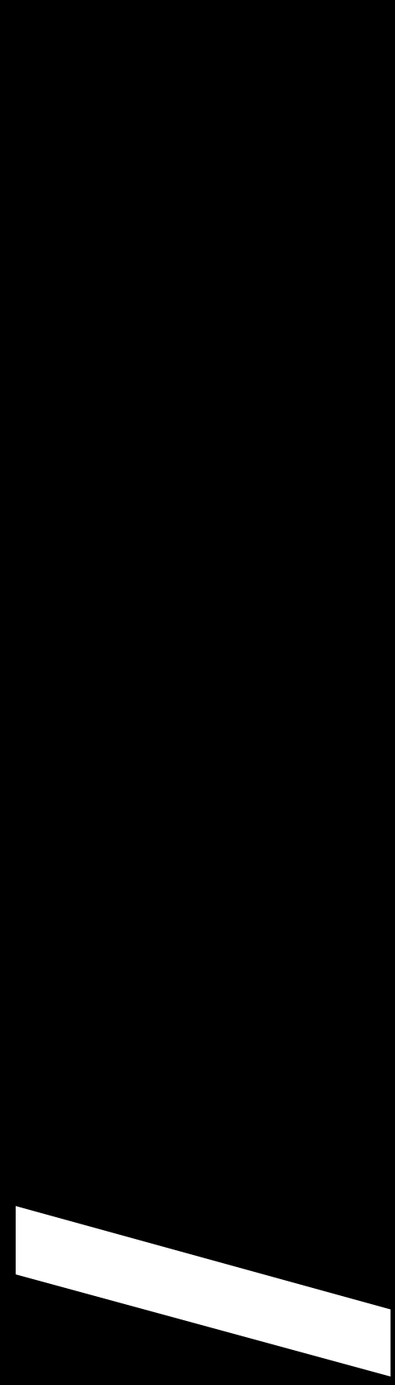


File System



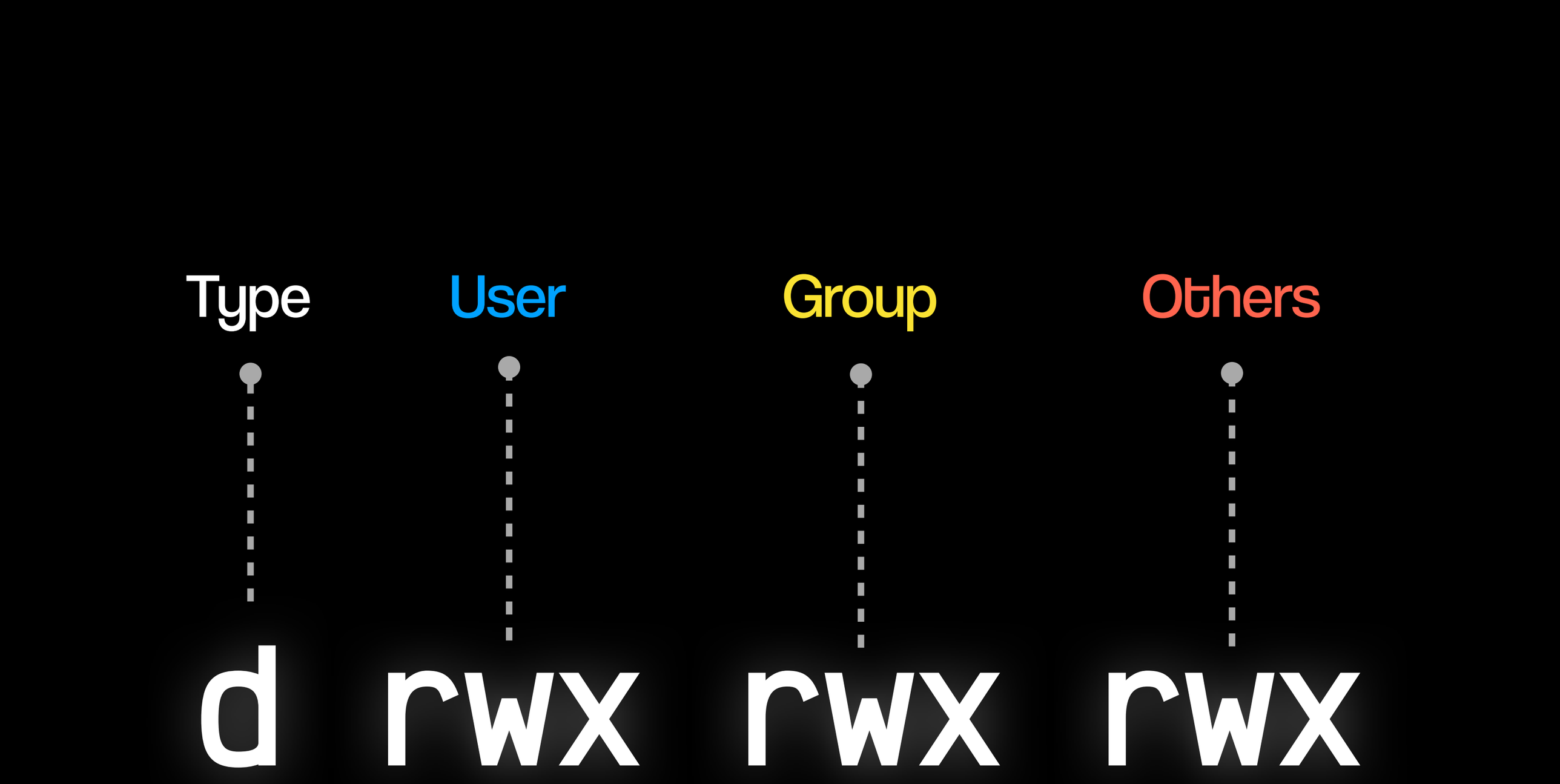

Kernel

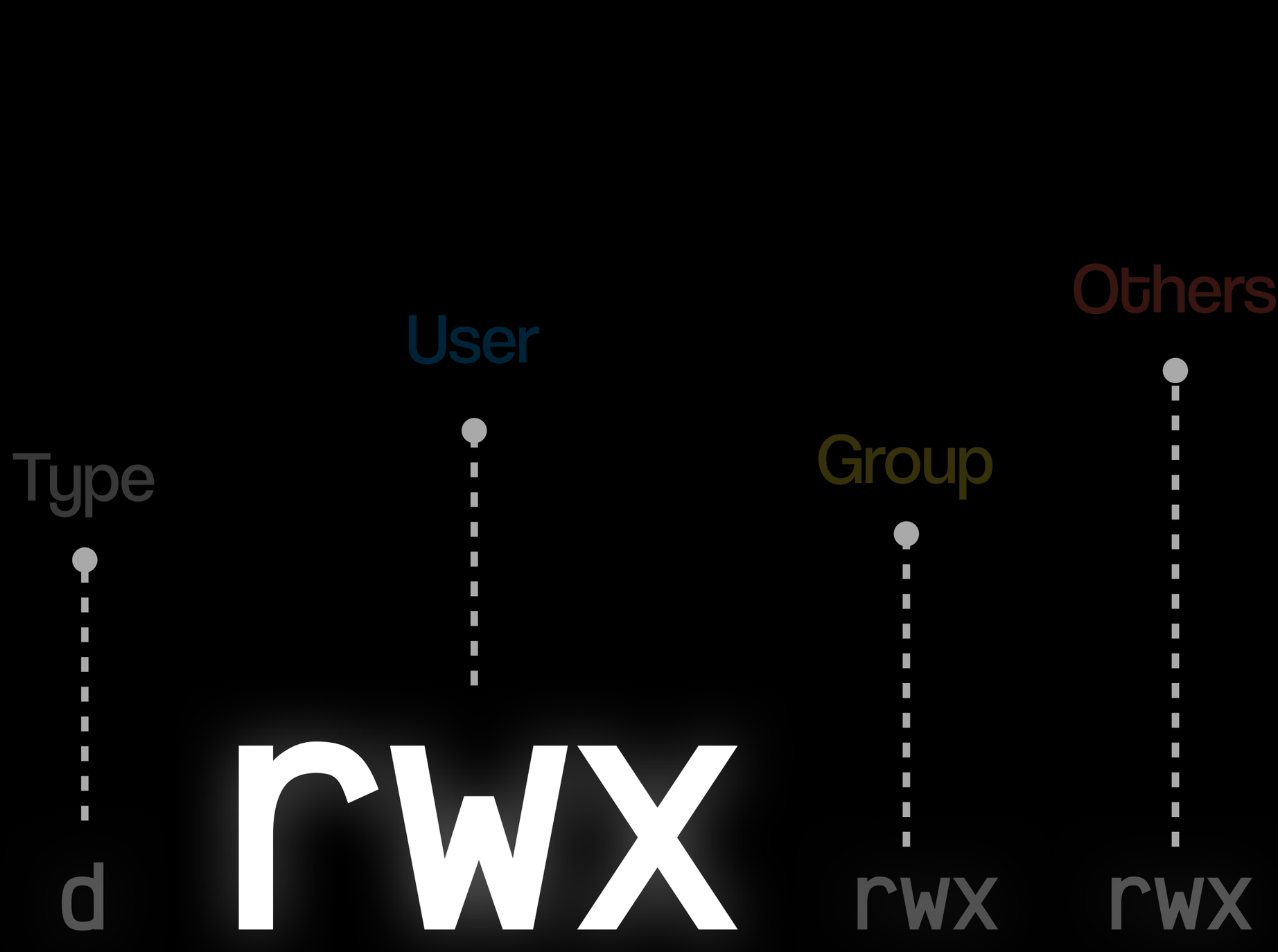


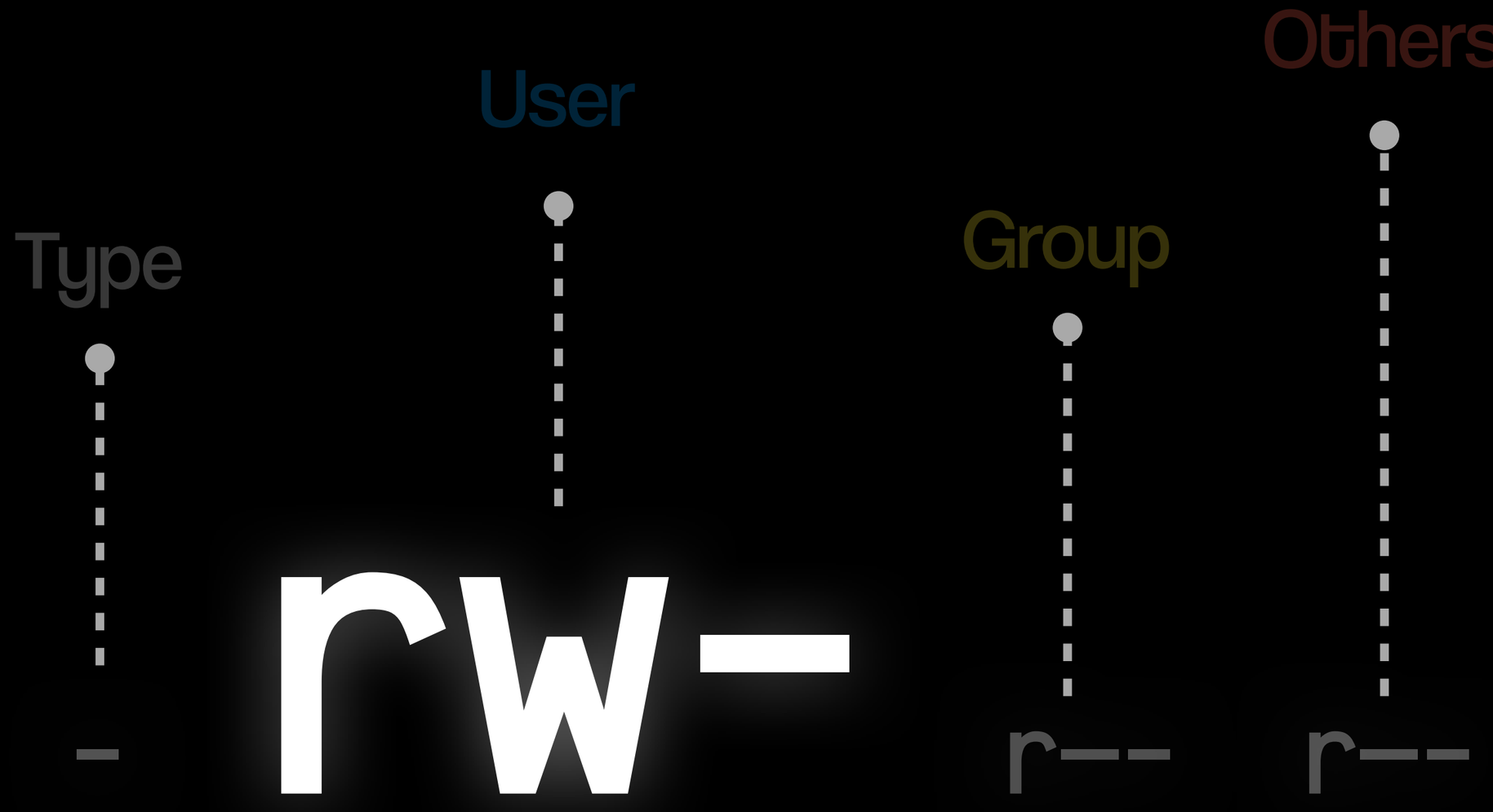
```
boot
dev
etc
home
lib -> usr/lib
lib.usr-is-merged
lib64 -> usr/lib64
lost+found
media
mnt
opt
proc
root
run
sbin -> usr/sbin
sbin.usr-is-merged
snap
srv
sys
tmp
usr
var
```

File permissions

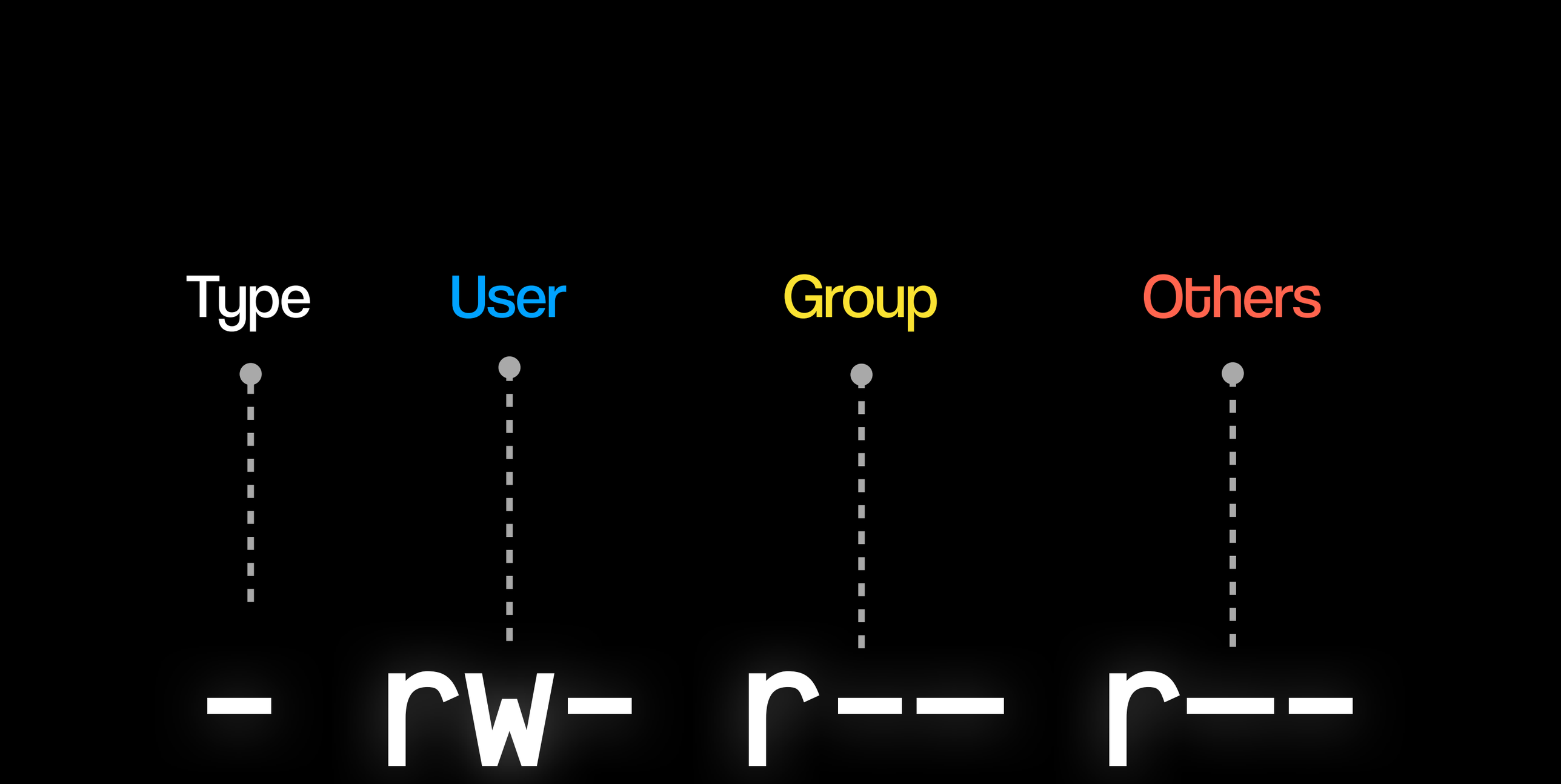
drwxrwxrwx


Type
User
Group
Others
d rwx rwx rwx


Type
User
Group
Others
d
rwx
rwx
rwx


Type
User
Group
Others
-
rw-
r--
r--

```
-rw-r--r--
```




```
-rw-r--r--  1 root root     21 Apr 20 17:19 finance.txt
```

Octal notation

drwxrwxrwx

d	rwx	rwx	rwx
	7	7	7

drwxrwxrwx

777

Permission	Digit
Read	4
Write	2
Execute	1

Permission	Digit
Read	4
Write	2
Execute	1

```
d rwx rwx rwx
```

Permission	Digit
Read	4
Write	2
Execute	1

```
- rwx r-x r--
```

Permission	Digit
Read	4
Write	2
Execute	1

```
- rwx r-x r--
```

Permission	Digit
Read	4
Write	2
Execute	1

```
- rw- rw- r--
```

Permission	Digit
Read	4
Write	2
Execute	1

755

Permission	Digit
Read	4
Write	2
Execute	1

Default permissions

Permission Type	Symbol	File	Folder
Read	r	cat, head, tail	ls, du
Write	w	nano, vi	edit, rename, delete, create file
Execute	x	Execute a file	cd
None	-	Do nothing	Do nothing

drwxrwsrwt

Set-GID

Sticky Bit

d rwx rws rwt

Thank you