

CS 208

Fri, 3 Nov 2023

`execvp ("ls", "ls", "-l", 0);`

command

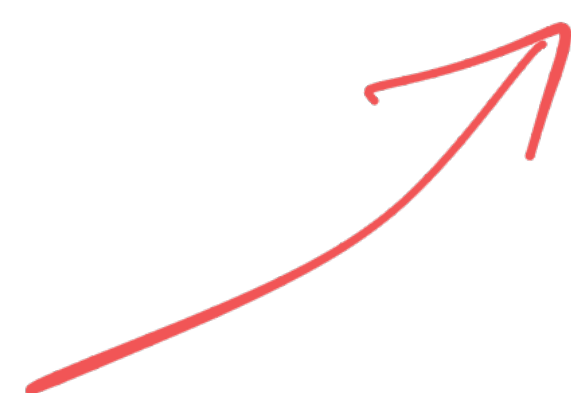
argv

argv[0] argv[1] argv[2]

have to know the # arguments at compile-time

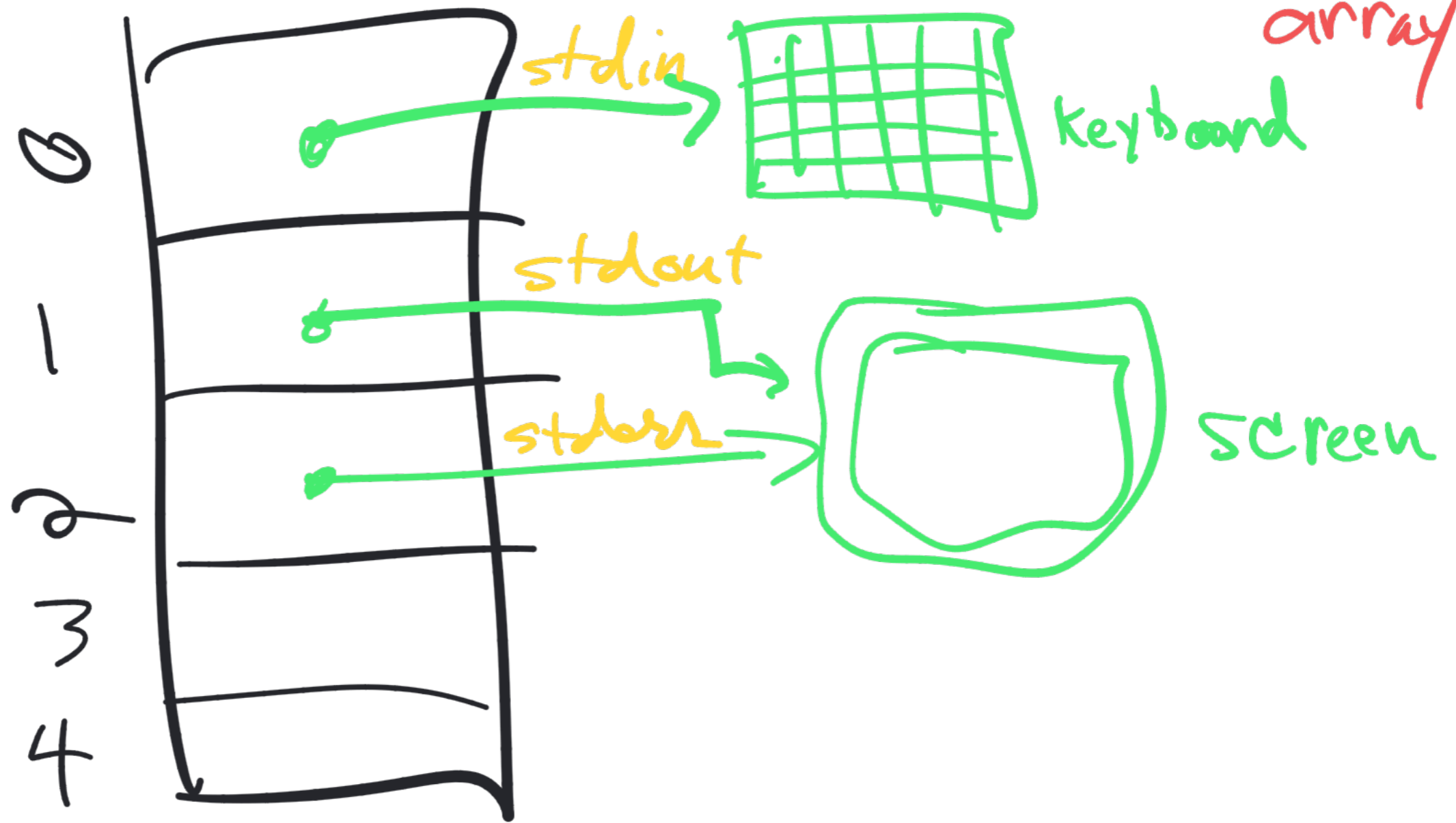
execvp ("ls", argv)

needs setting
up, but it's
flexible



Every Unix process, when launched, has a "file descriptor table"

really an array





```
int fd
= open("cat.txt"
O_RDONLY);
```

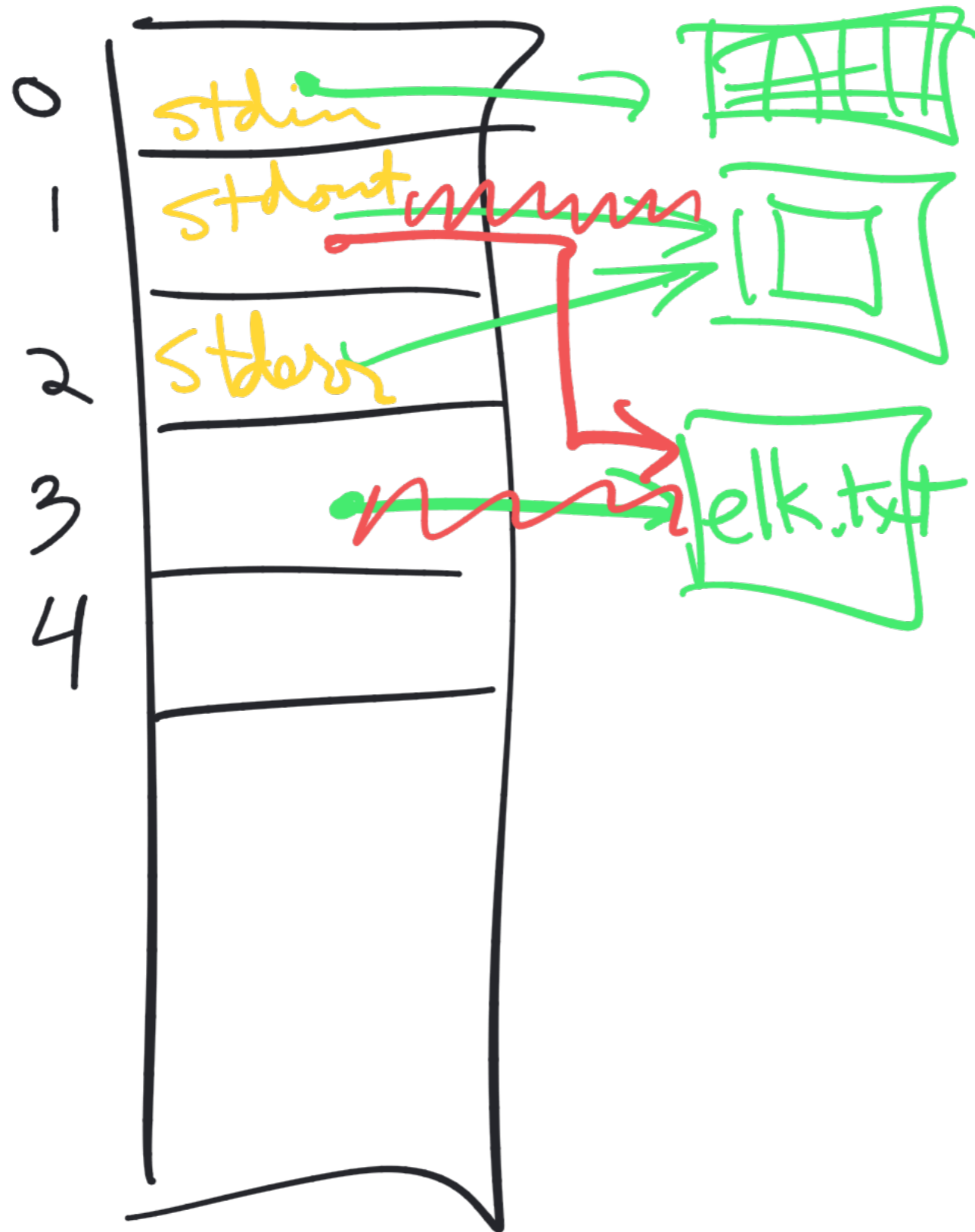
```
dup2(3, 0);
```

[copies the ptr in slot 3 to slot 0]

WC -l < cat.txt

what happens if we call fgetc(..., stdin) now?

redirect.c



```
fd = open("elk.txt",  
dup2(3, 1);  
close(3);
```