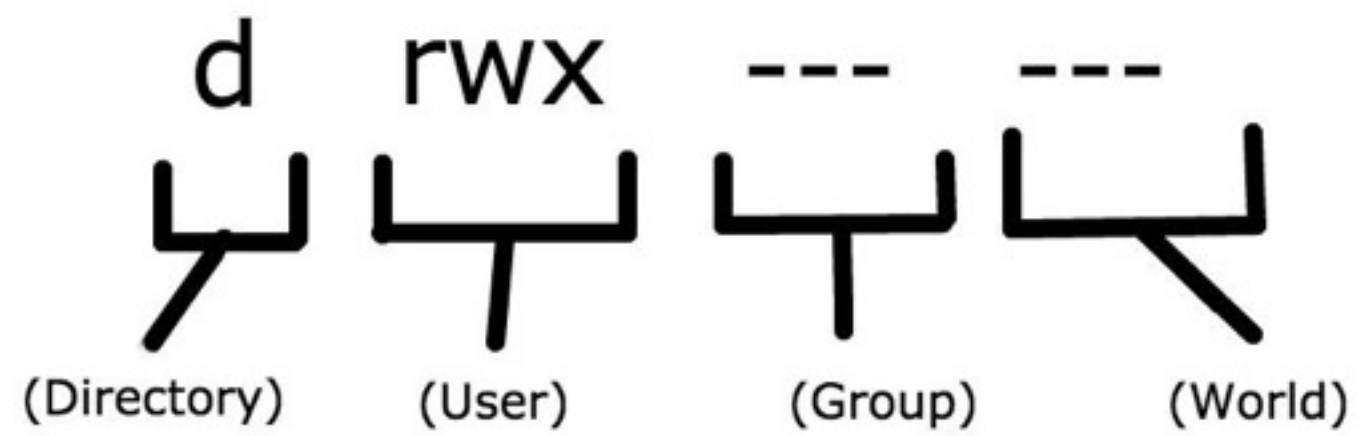


week8

chmod

- unix system call to change file permissions
- you can check permissions by running `ls -l`
- `chmod - - -` (each - is a number from 0 -7)
- r: readable = 4
- w: writeable = 2
- x: executable = 1

drwx-----



Another way to write it:

- `chmod group+permissions`
 - + adds permissions
 - - takes away permissions
- u: user/owner
- g: group
- o: others
- a: all

Practice

- `chmod 555`
- `chmod u+x`
- `chmod 640`

Common cases

- `chmod 711 directory` (for any directory)
- `chmod 644 file.txt` (for non-PHP files)
- `chmod 600 file.php` (for PHP files)

TCP/IP

- Transmission Control Protocol / Internet Protocol
- Gives a set of standards that govern how data should be packetized, transmitted, routed, and received
 - Goal is to increase the chance that the data we send will end up where we want it to
 - Let's you know if something goes wrong with transmission

Ports

- Tells you what type of data is being transmitted (just put these on your sheet for quiz1, don't memorize them)
- 21: FTP: File transfer protocol
- 25: SMTP: Email
- 53: DNS: Domain Name System
 - Answers the question: "What is the IP address of a domain name"?
- 80: HTTP: Webpage
- 443: HTTPS: Secure webpage

HTTP

- HyperText Transfer Protocol
- HyperText:
 - Text that gives us more information than regular text
 - `Check out this cool website `
- Transfer protocols: set of rules for requests and responses

Example Request

- GET / HTTP/1.1
- User-Agent: curl/7.24.0
- Host: www.apple.com
- <name>: <value>

Example Response:

HTTP/1.1 200 OK

Server: Apache

Content-Type: text/html; charset=UTF-8;

Content-Length: 16286

Connection: keep-alive

Status Codes

- 2xx = Success (ex. 200 OK)
- 3xx = Redirection (ex. 301 Moved Permanently)
- 4xx = Client Error (ex. 404 Not Found, 418 I'm a teapot)
- 5xx = Server error (e.x. 500 Internal Server Error)

HTML & CSS

- Practice and experiment – W3Schools is a good resource
- This isn't a web design course, so our focus isn't on making really “pretty” websites
- Advice:
 - Close your tags ()
 - Use the W3 Validator (think of it as the new style50)
 - Separate your markup from you style sheets

CSS

- Instead of tags, CSS uses “selectors”
- CSS maps attributes to selectors
- id's (#) are unique, classes are not (.)