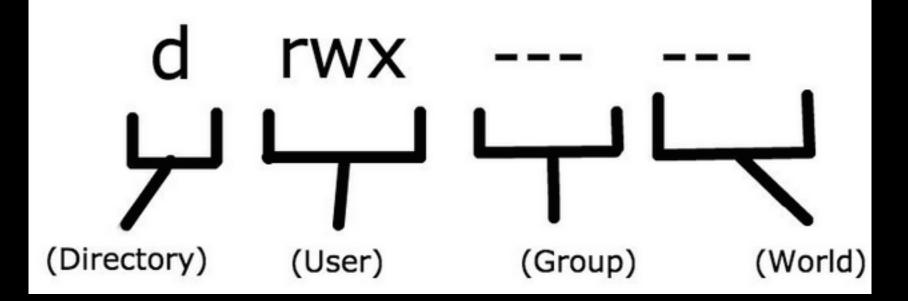
chmod

- Unix system call to change file permissions
- 1s -1 : see file permissions
- chmod - (each is from 0-7)
- r : readable : 4
- w:writeable:2
- x : executable : 1

drwx----



- chmod group+permissions
 - + adds permissions
 - takes away permissions
- u: user or owner
- g: group
- o: others

Example

- rwx --- can also be represented as 700
- chmod 444 file would give what permissions?
 - What's another way we could write this?

Example

- rwx --- can also be represented as 700
- chmod 444 file would give what permissions?
 - Readable to everyone!
 - Could also do chmod a+r file

Translations

- chmod 555
- chmod u+x
- chmod 640

Translations

- chmod 555
 - Chmod a+rx
 - Gives everyone read and execute access
- chmod u+x
 - Chmod 100
 - Gives the owner execute access
- chmod 640
 - Chmod u+rw, chmod g+r
 - Gives owner read and write permissions
 - Gives group read permission

Common cases

- chmod 711 directory: Use for any directory
- chmod 644 file.txt: Use for any non-PHP file you create
- chmod 600 file.php: Use for PHP files

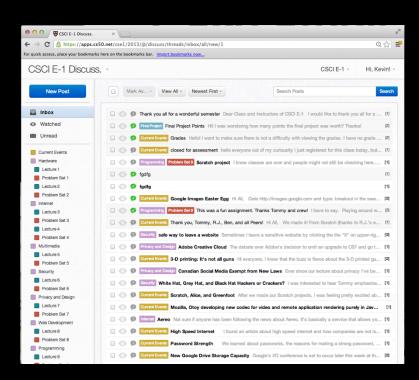
TCP/IP

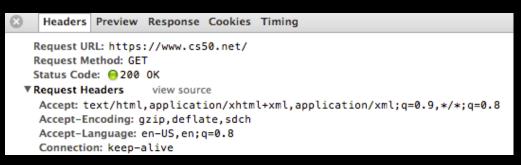
- Transmission Control Protocol/Internet Protocol
- Gives a set of standards that govern how data should be packetized, transmitted, routed and received
 - Increases chances the data will get where you want it to!

Ports

- Need to tell our end destination what type of data is in the packet; packets might be routed in various ways/paths
 - 21: FTP: File transfer protocol
 - •25: SMTP: Email
 - 53: DNS: Domain Name System
 - What is the IP address of a domain name?
 - 80: HTTP: Webpage
 - 443: HTTPS: Secure webpage

HTTP





HyperText Transfer Protocol



Hypertext Transfer Protocol - Wikipedia, the free encyclopedia

en.wikipedia.org/wiki/Hypertext_Transfer_Protocol >

The Hypertext Transfer Protocol (HTTP) is an application protocol for distributed, collaborative, hypermedia information systems. HTTP is the foundation of data \dots

Technical overview - History - HTTP session - Request methods

HTTP - Hypertext Transfer Protocol Overview - W3C

www.w3.org/Protocols/ *

This is the overview materials related to the W3C HTTP activity, one of the W3C Architecture domain activities. HTTP has been in use by the World Wide Web ...

What is HTTP? - A Word Definition From the Webopedia Computer ...

www.webopedia.com/TERM/H/HTTP.html *

This page describes the term **HTTP** and lists other pages on the Web where you can find additional information.

RFC 2616 - IETF

www.ietf.org/rfc/rfc2616.txt *

Abstract The Hypertext Transfer Protocol (HTTP) is an application-level protocol for ... This specification defines the protocol referred to as "HTTP/1.1", and is an ...

Day	Time	Location
Sunday	4:00-5:30pm	Pierce 301
Monday	2:30-4:00pm	SC 221
Monday	5:30-7:00pm	MD 223
Tuesday	2:30-4:00pm	Lamont 240
Tuesday	2:30-4:00pm	NW B150
Tuesday	4:00-5:30pm	NW B150

Check out
this
really cool website!

Transfer Protocol

1 Introduction

1.1 Purpose

The Hypertext Transfer Protocol (HTTP) is an application-level protocol for distributed, collaborative, hypermedia information systems. HTTP has been in use by the World-Wide Web global information initiative since 1990. The first version of HTTP, referred to as HTTP/0.9, was a simple protocol for raw data transfer across the Internet. HTTP/1.0, as defined by RFC 1945 [6], improved the protocol by allowing messages to be in the format of MIME-like messages, containing metainformation about the data transferred and modifiers on the request/response semantics. However, HTTP/1.0 does not sufficiently take into consideration the effects of hierarchical proxies, caching, the need for persistent connections, or virtual hosts. In addition, the proliferation of incompletely-implemented applications calling themselves "HTTP/1.0" has necessitated a protocol version change in order for two communicating applications to determine each other's true capabilities.

This specification defines the protocol referred to as "HTTP/1.1". This protocol includes more stringent requirements than HTTP/1.0 in order to ensure reliable implementation of its features.

Introduction to the HTTP specification, from http://www.ietf.org/rfc/rfc2616.txt.

An Example Request

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

Key:

```
MethodRequest URI
Protocol Version
field name
field value
```

An Example Response

HTTP/1.1 200 OK

Server: Apache

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

Server: Apache

Content-Length: 16286

Connection: keep-alive

Key:

Status Code Protocol Version field name field value

HTML & CSS

- HyperText Markup Language
 - Practice and experiment!
- Best practices:
 - Close all your tags!
 - Validate your page with W3 Validator
 - Separate markup (HTML) and style (CSS)
 - MVC paradigm to come!

CSS

- Instead of tags, CSS uses selectors
 - Match tags with attributes
- Selectors can be
 - id : unique
 - #id in a CSS file
 - class: can refer to multiple blocks
 - •.class in a CSS file