CPSC 216 - HyperText Transfer Protocol

- -> HTTP works based on a request/response model.
- -1 The "client" application is typically
- a web browser (chrome, Safori, ...)

-) The "Server" application is a web server (Apache, ...) Browser 500 Serve http://wise.org/ to s. Jas. V. Tep (test. html Respond with

Stop 1: What does w3c. org mea - browsey extends "domain name"

from the URL - Sends a regret to the local domain name server, and that server returns the IP address of the web server.

Step 2: How do we talk to wac.org?

brower establishes a TCP connection with The Server, and prepares for information exchange

Step 3: Bruser Traguetz test. html Wes Serve responds with test. Intal

> KHM1> Ling src = "field jpg"> (/h+m) >

Browser processes" the returned htal file. It Step4: realizes that there is custor regired file that is needed. Browser regreats field.jpg What server responds with field jfg Step 5: Porsser displays image.

Stap6: TCP connection is closed?

OK, so let's dig into this a bit deeper...

Question: What actually gets sent in HTTP requests and responses?

```
Request for URL: https://en.wikipedia.org/wiki/World_Wide_Web

GET /wiki/World_Wide_Web HTTP/1.1
Host: en.wikipedia.org
User-Agent: Mozilla/5.0 Chrome/48.0.2564

Request type Path HTTP version

Start line { GET /wiki/World_Wide_Web HTTP/1.1 }
Host: en.wikipedia.org Hostname
User-Agent: Mozilla/5.0 Chrome/48.0.2564

Browser identifier
```

Each of the regrest are the text have FOUR PARTS:

1) Start Line

Requet: TYPE is Path is HTTP vision.
Response: HTTP vision is CODE in phrase.

Deno or more header fields

Requert: Valle (additional Blank Line 1

(3) Optional Message Body

Common HTTP Request Methods:

request a resource GET - some as GET but to body HEAD

- Crecte now resource POST - modify a resource PATCH - replace a resource

PuT delete a resource DELETE

Common HTTP response status codes:

OK

200 Moved Permanently 301

Found

302

Not Modified

304

Forbidden

403 Not Found

404

Internal Server Error 500