

IP - address → the address of the host server

TCP - service specifier (443 for)

- a single server can have multiple TCP numbers, one for each service (mail, web, chat, etc.)

- The number is a port number

- e.g. 80 - HTTP (request for web page)

443 - HTTPS (secure request)

email, zoom etc.

have their own

pre designated numbers

TCP/IP → # # # - # # # ... 80

↑

IP

↑
port
ct end

TCP also resends data when packets are lost



TCP/IP protocols support adaptive routing, so data can be sent via different paths depending on varying circumstances

Sophisticated Requests

GET /search?q=ects HTTP/1.1



curl -V https://
of typing cets
into google search

but

like a CLI command

?q={word}



like "What is the
value of q?

Input: cets

program

google search results

③

Protocols
1 TCP/IP - address on outside of envelope
DNS - used to translate url to IP

2 HTTP(S) - contents of envelope
like "Dear server"

What's inside envelope below
HTTP header?

HTML!

HyperText Markup Language

<form>
action = "url" ← endpoint
method = "get"

in
parameters { <input name = "j" type = "text" />
<input type = "submit" value = "Search" />

Form tags are ubiquitous
on sites requiring user input

- open/ close tag
→ or more attributes

- form tags

- POST (vs get) writes
the input info from url.

3

CSS - Cascading Style Sheets

<style> tag in header

OR

<link href="" /> in header

style = "font-size: large; text-align: center;"

↑ color

Separates properties

© ↳ C

HTML Entity

Symbols not on keyboard

You can use style sheets to create a lot of classes that can be plugged in to an HTML file with <link href="stylesheet.css" rel="stylesheet">

(4)

JavaScript

when submit is
pressed from
this "function"

<form onsubmit = "greet();"

don't
submit
form to
server > <input type = "button" value = "Submit" />

form to
server <input id = "name"
type = "text" value = "Hello" />

shows us
to refer to
it in our
function
<input type = "submit" value = "Submit" />

document.querySelector('#name').
value

specify global variable
in js. ↑ method
T the others
access to selected

access to
all things
related to
webpage

css selector
(nodes from
tree + the

DOM)

Document object
model

5

We can also add
all kinds of attributes
autoexample = "off"

etc.
doc.greetSelect, autoFocus = "on"
etc.

1. add Event Listener ('submit', greet)

↓
when the user does ↑
anything on the page

don't call

see

Or when anything happens on the page at all, such as finished loading

when submit
is activated

run the
geo-finder

(like the

Tambola

finder from well

from well

)



Similar to prototypes in C

↳ In order to use .addEventListner
on a Dom Object, you
need to have at the ~~bottom~~ code
two lines for the entire
Dom vtu ("DOMContentLoaded")

so it looks like this
function no()

{

}

function later()

{

 addEventListner

}

addEventListner("DOMContentLoaded", later)

↑

function
addEvent
listner

①

Like python you can
return functions as w/ lambda
This time you ~~just~~ write
the whole function
as the ~~last~~ arg of
the method.

add function ("Domestic Function")

{
 ~

}) ;

9)

close parentheses to indicate
end of method call

(8) you can ~~call~~
 call
 to other functions
 in arguments.

PUT

3rd request in addition

to POST and GET

PUT sends to