# CS 337 Web Programming

HTML/CSS/HTTP/JavaScript/PHP/MySQL/CGI/XML/JSON/HTTPD/W3C/OMG No Moar TLAs

#### Administrivia

#### Mark Fischer

- No Dr., Just Mark, or Mr. Fischer if you have to be formal
- BS Civil Engineering, UA 2000
- Web Developer 1998 Present
- Second time teaching this course
  - Last time most people liked it. Thought I was "hard but fair"
  - Let me know at the end

#### Contact Me

- fischerm@email.arizona.edu
- cs337-instructors@list.arizona.edu
  - Read by Mark and the TAs
- Piazza
- I probably will not read messages within D2L in a timely manner...
- Office Hours: Check Piazza

#### TAs

- Clara Rice
  - cerice2@email.arizona.edu
  - Office Hours:
    - Again, Piazza once we figure them out

#### Piazza

- https://piazza.com/arizona/spring2016/csc337
- Please sign up ASAP!
- Best place to ask questions
- Can ask private questions directly to the instructors
- Can post anonymously to the class (but I can still see who you are)

#### D2L

- Used for assignments and turn-ins
- Grades will updated here
- Quizzes will be done through here

#### Panopto

- Will record lectures and post them on Panopto
- Get to Panopto by logging in to D2L, then clicking on the "UA Tools" menu in the menu bar.
- Yes, this means you don't have to come to class
  - You should still totally come to class

#### Lectura

- lectura.cs.arizona.edu
- https://www.cs.arizona.edu/computing/services/
- http://www.cs.arizona.edu/computing/web/cgi.html

#### Resources

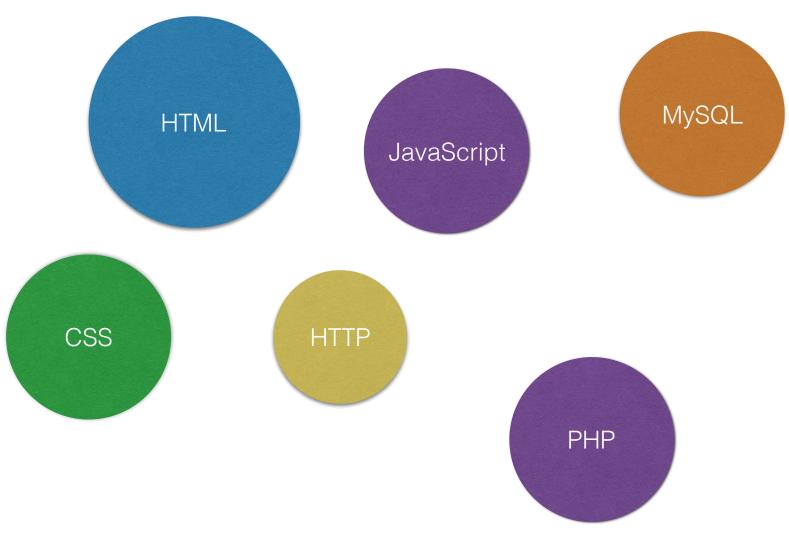
- Head First HTML and CSS
- http://proquest.safaribooksonline.com.ezproxy1.library.arizona.edu/ book/web-design-and-development/9781449324469/firstchapter

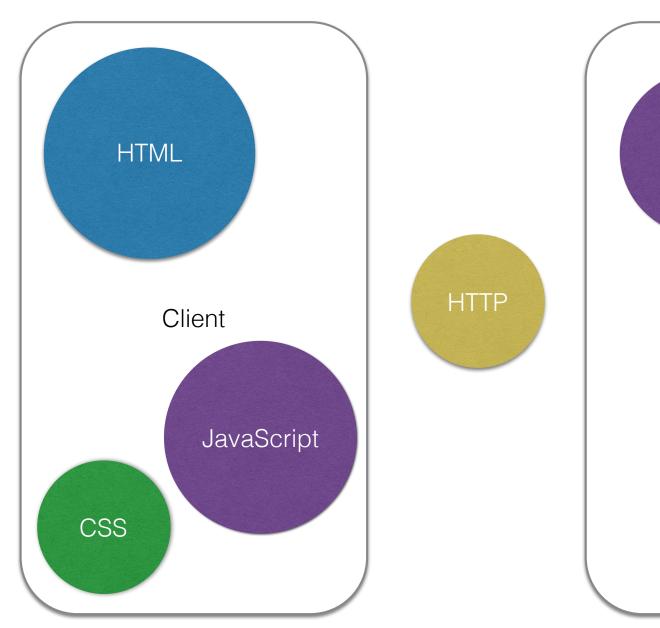
https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/HTML5

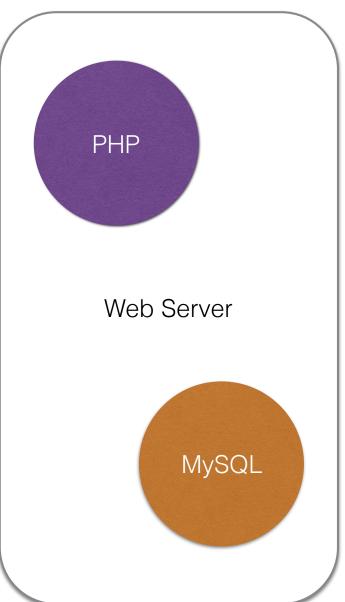
## Syllabus

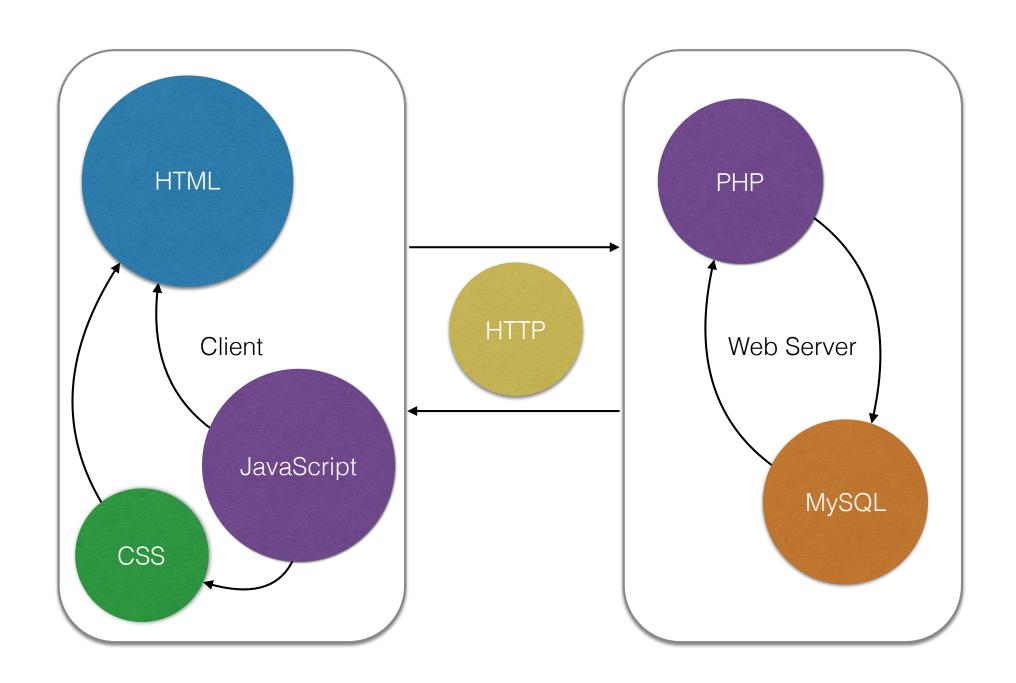
Other Details

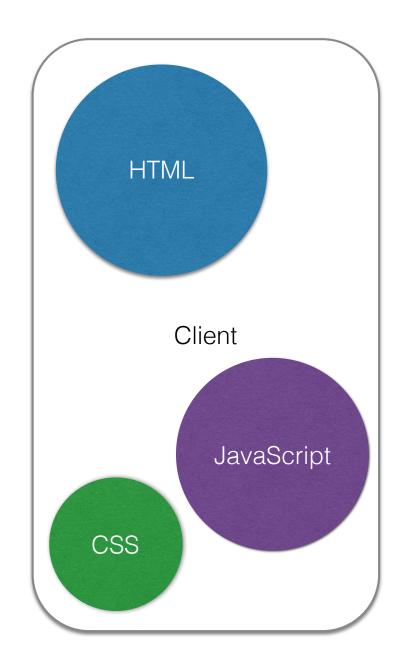
## The Big Picture



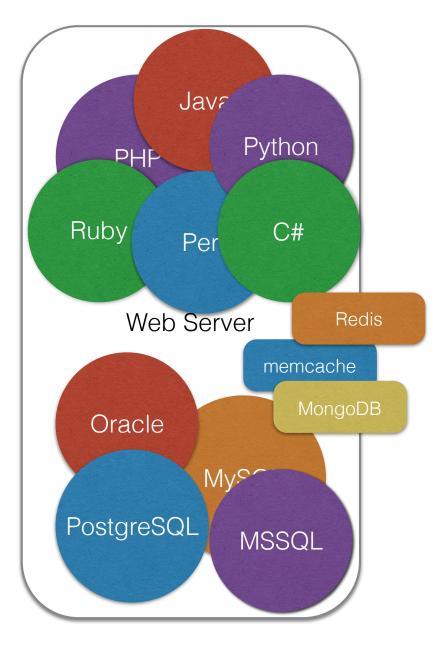


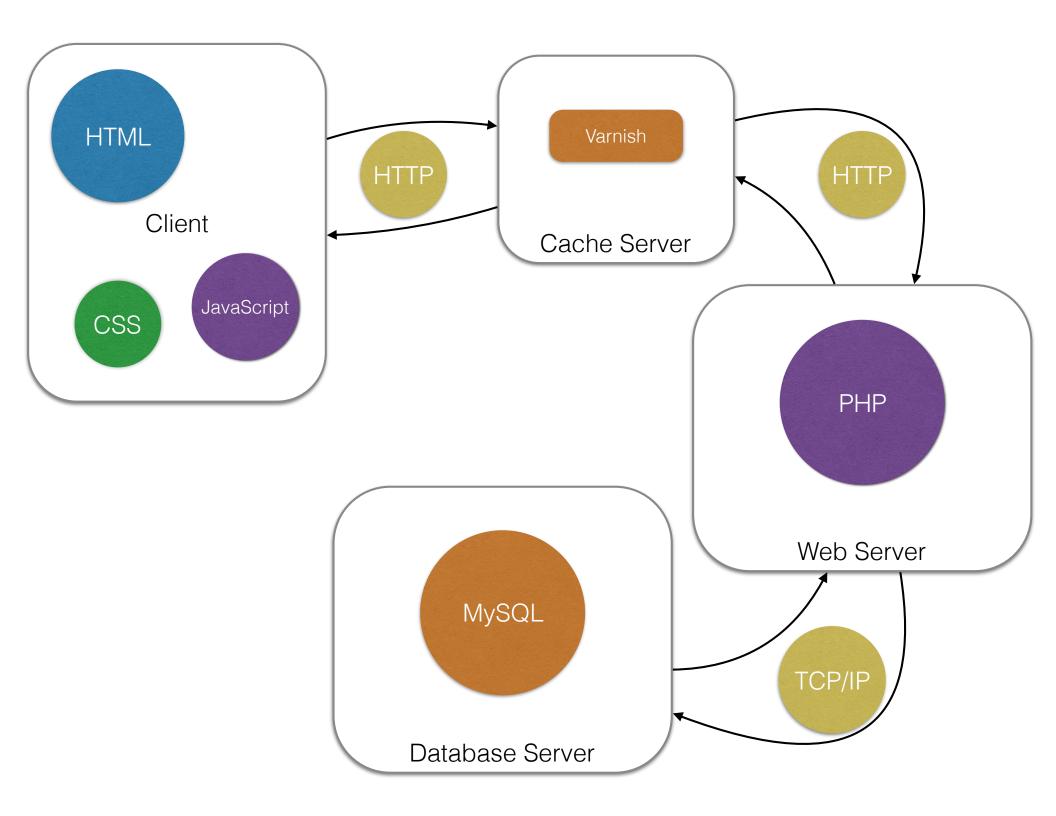


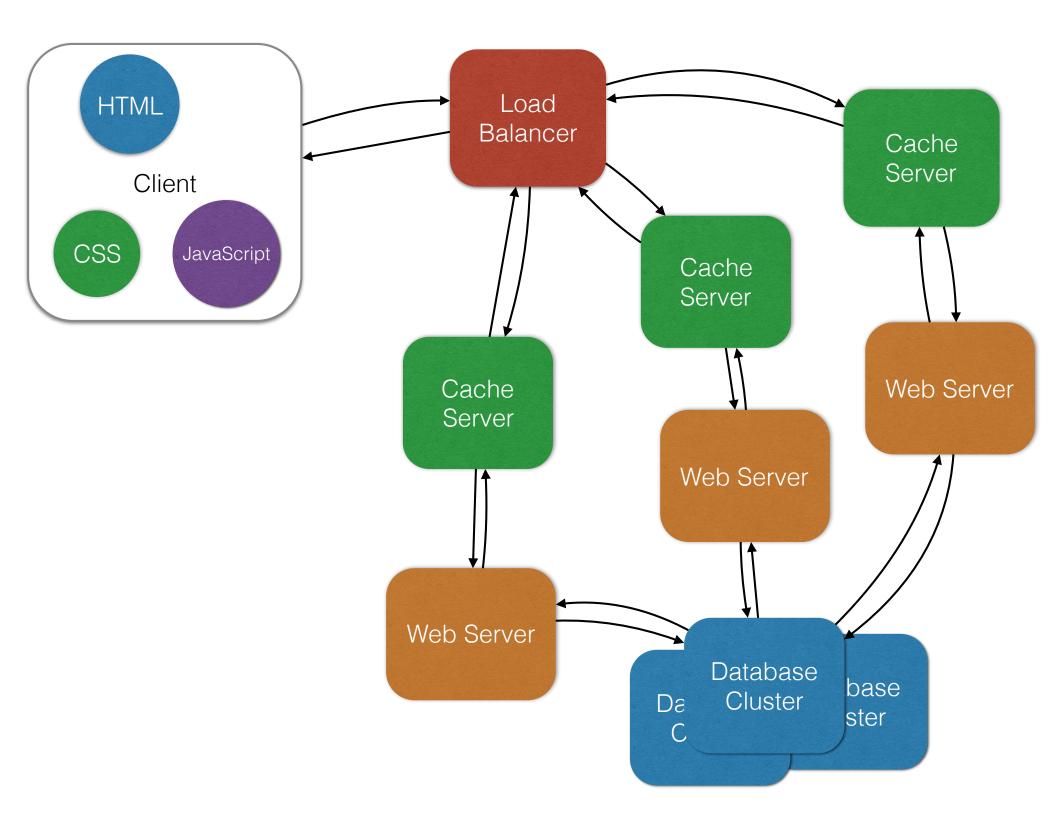


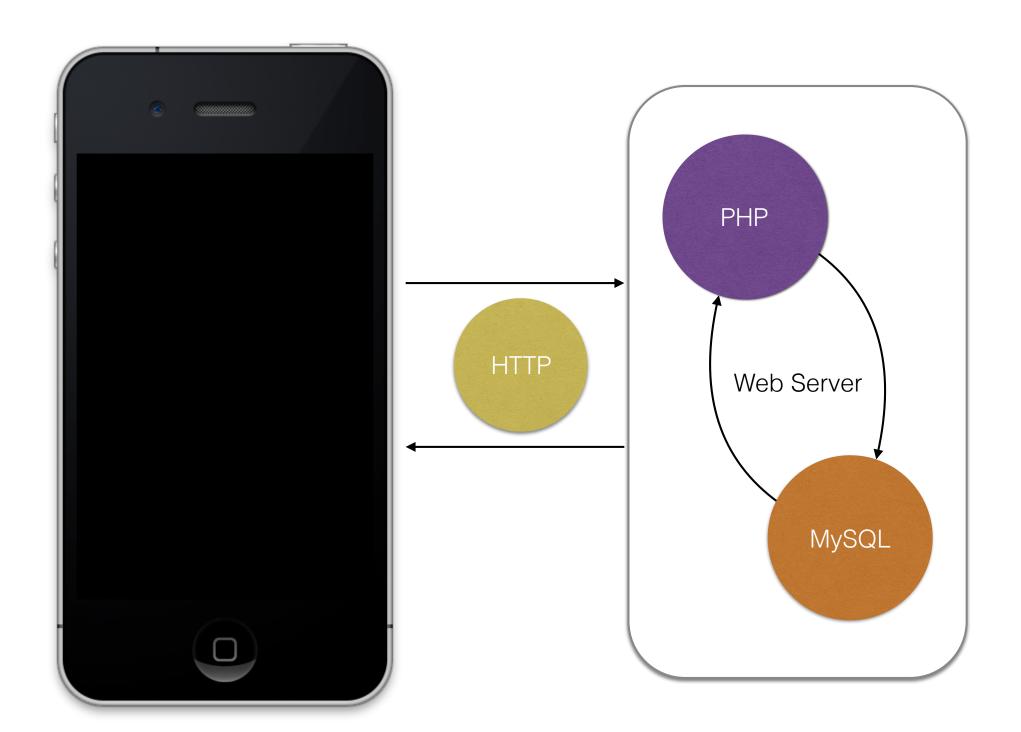


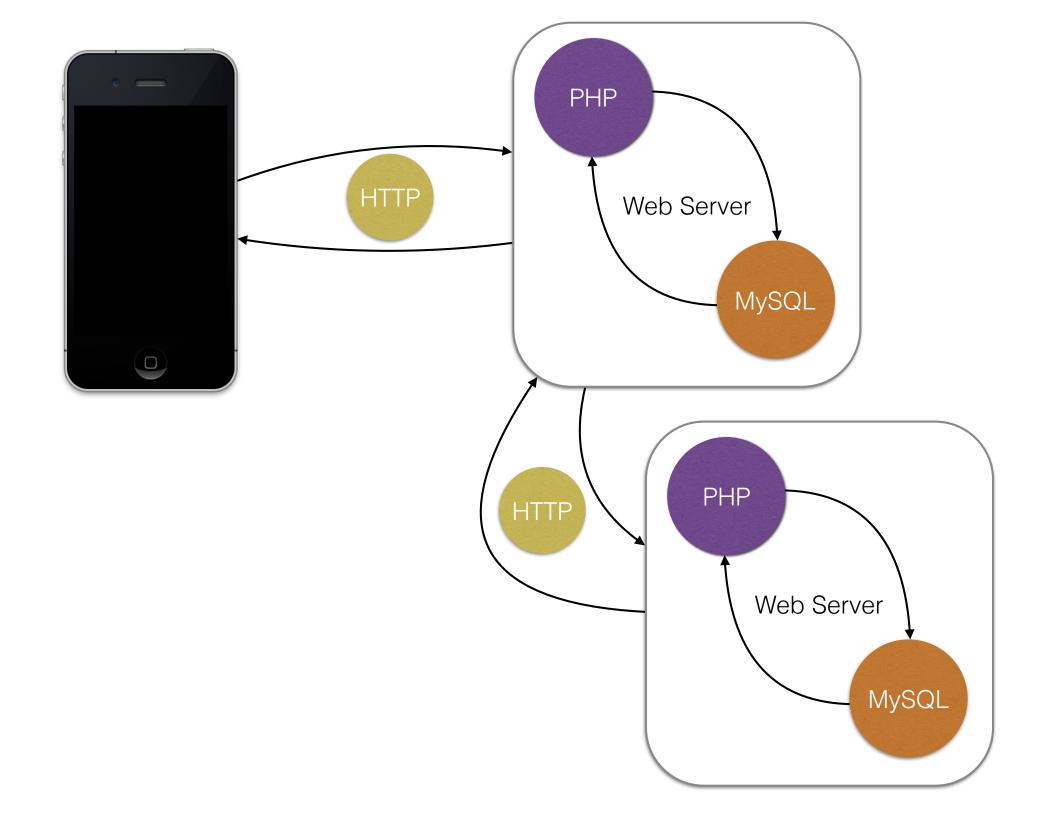


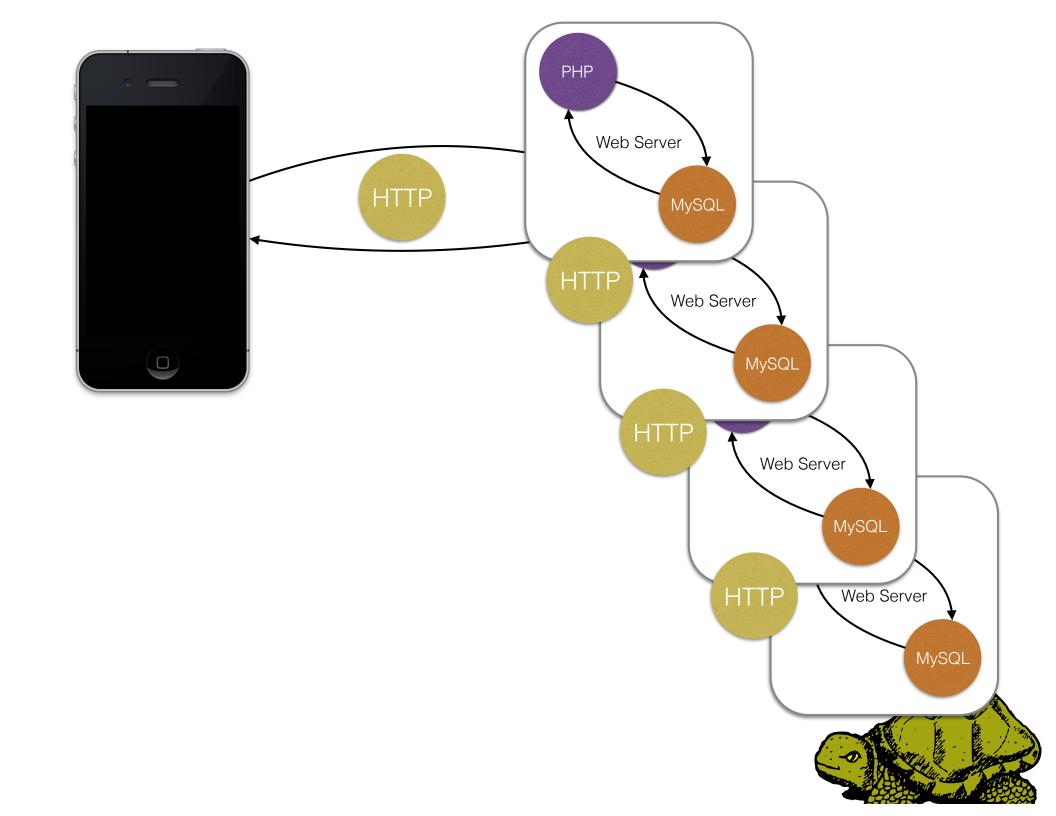












Jorge Luis Borges created "The Garden of Forking Paths", a short story that is often considered an inspiration for the concept of hypertext

Jorge Luis Borges created "The Garden of Forking Paths", a short story that is often considered an inspiration for the concept of hypertext

1941

#### 1945

Vannevar Bush describes the "Memex" in an article called "As We May Think"

#### 1945

Vannevar Bush describes the "Memex" in an article called "As We May Think" Ted Nelson coined the terms 'hypertext' and 'hypermedia' for his Xanadu project

Ted Nelson coined the terms 'hypertext' and 'hypermedia' for his Xanadu project

1963

#### 1967

Ted Nelson worked with Andries van Dam to develop the Hypertext Editing System (text editing) at Brown University.

#### 1967

Ted Nelson worked with Andries van Dam to develop the Hypertext Editing System (text editing) at Brown University.

Charles Goldfarb, Edward Mosher, and Raymond Lorie developed the Generalized Markup Language at IBM. Evolved into SGML

```
Document: Bungler OED

At: "(entry)"

(hwsec)
(hwgp)
(hwlem)bungler(/hwlem)
(pron)b(I)**(/I)**nglex(/pron). (/hwgp)
(vfl)Also (vd)6(/vd) (vf)bongler(/vf),
(/vfl)
(etym)f. as prec. + (xra)(xlem)-ER(/xle

(sen)One who bungles; a clumsy unskilful
(quot)
(qdat)1533 (/qdat)
(auth)More (/auth)
(wk)Answ. Poyson. Bk. (/wk)Wks. (1557)
(qtxt)He is even but a very bungler.
```

Charles Goldfarb, Edward Mosher, and Raymond Lorie developed the Generalized Markup Language at IBM. Evolved into SGML

1987

Apple Computer released HyperCard for the Macintosh



1987

Apple Computer released HyperCard for the Macintosh Tim Berners-Lee and Robert Cailliau at CERN write "WorldWideWeb: Proposal for a HyperText Project"

Tim Berners-Lee and Robert Cailliau at CERN write "WorldWideWeb: Proposal for a HyperText Project"

1990

1990

Tim Berners-Lee creates the first web browser on a NeXT computer

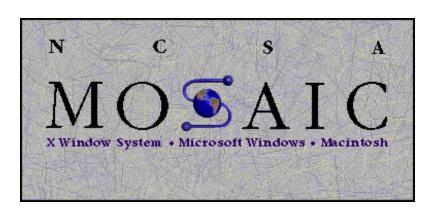
1990

1990

Tim Berners-Lee creates the first web browser on a NeXT computer

"HTML Tags" by Tim Berners-Lee. Influenced by SGML

"HTML Tags" by Tim Berners-Lee. Influenced by SGML



1993

1991

Marc Andreessen and Eric Bina Create Mosaic. First graphical browser to show inline images.

1993

Marc Andreessen and Eric Bina Create Mosaic. First graphical browser to show inline images.

Marc Andreessen and Jim Clark form Mosaic Communications.
Later renamed Netscape



Marc Andreessen and Jim Clark form Mosaic Communications.
Later renamed Netscape

R

1994

1994

World Wide Web Consortium founded.

1994

World Wide Web Consortium founded.

HTML 2.0 published by the Internet Engineering Task Force RFC 1866

HTML 2.0 published by the Internet Engineering Task Force RFC 1866

1995

1995

Internet Explorer Released Begun, the browser wars have

1995

Internet Explorer Released Begun, the browser wars have Håkon Wium Lie and Bert Boss publish CSS 1.0

Håkon Wium Lie and Bert Boss publish CSS 1.0 HTML 3.2 Published by the W3C. Includes visual markup

1996

January 1997

HTML 3.2 Published by the W3C. Includes visual markup

December 1997

January 1997

HTML 4.0 Published by W3C. Deprecates visual markup in favor of Style Sheets

#### December 1997

W3C Publishes XML 1.0

HTML 4.0 Published by W3C. Deprecates visual markup in favor of Style Sheets

W3C Publishes XML 1.0

1999

1998

HTML 4.1 Published by W3C

1999

XHTML Published

HTML 4.1 Published by W3C

XHTML Published

2000

2004

Firefox 1.0 Released. Aims to be a standards compliant browser.

2004

Firefox 1.0 Released. Aims to be a standards compliant browser.

Web Hypertext Application Technology Working Group (WHATWG) begins work on HTML5

Web Hypertext Application Technology Working Group (WHATWG) begins work on HTML5

2008

2004

First HTML5 Working Draft published by W3C

2008

First HTML5 Working Draft published by W3C

CSS 3 Recommendations
Published by the CSS Working
Group

2011-2012

CSS 3 Recommendations
Published by the CSS Working
Group

2011-2012

2014

W3C Publishes Final HTML5.0 Recommendation

2014

W3C Publishes Final HTML5.0 Recommendation

IETF Publishes HTTP/2
Specification

IETF Publishes HTTP/2
Specification

The Future...?