

Week 2:
Web Standards
and HTML Basics



INFO/CS 1300: Course Map

Topic Area	Dates	Goals	Assignments
Introduction and Infrastructure	8/24 – 8/26	1-5	All
HTML & Structure	8/29 – 9/9	1,2	
CSS & Presentation	9/12 – 9/30	2	Brief Assignments
Client-Side Scripting: JavaScript & jQuery	10/3 – 10/21	3	
Server-Side Scripting: PHP	10/24 – 11/4	3	
Basic User Testing	11/7 – 11/18	4	Final Project
Taking a Site Live	11/21 – 12/2	1-5	



Agenda

- Enrollment update and section switches.
- Assignment progress.
- Web Standards.
- HTML Basics.



Assignment Progress

- **After Assignment 0:**
 - Piazza logon.
 - Server logon and upload with simple file.
- **After Assignment 1:**
 - Know the origin of Web standards.
 - Create simple structural HTML.
 - Use basic version control.



Web Architecture Simplified (a lot!)

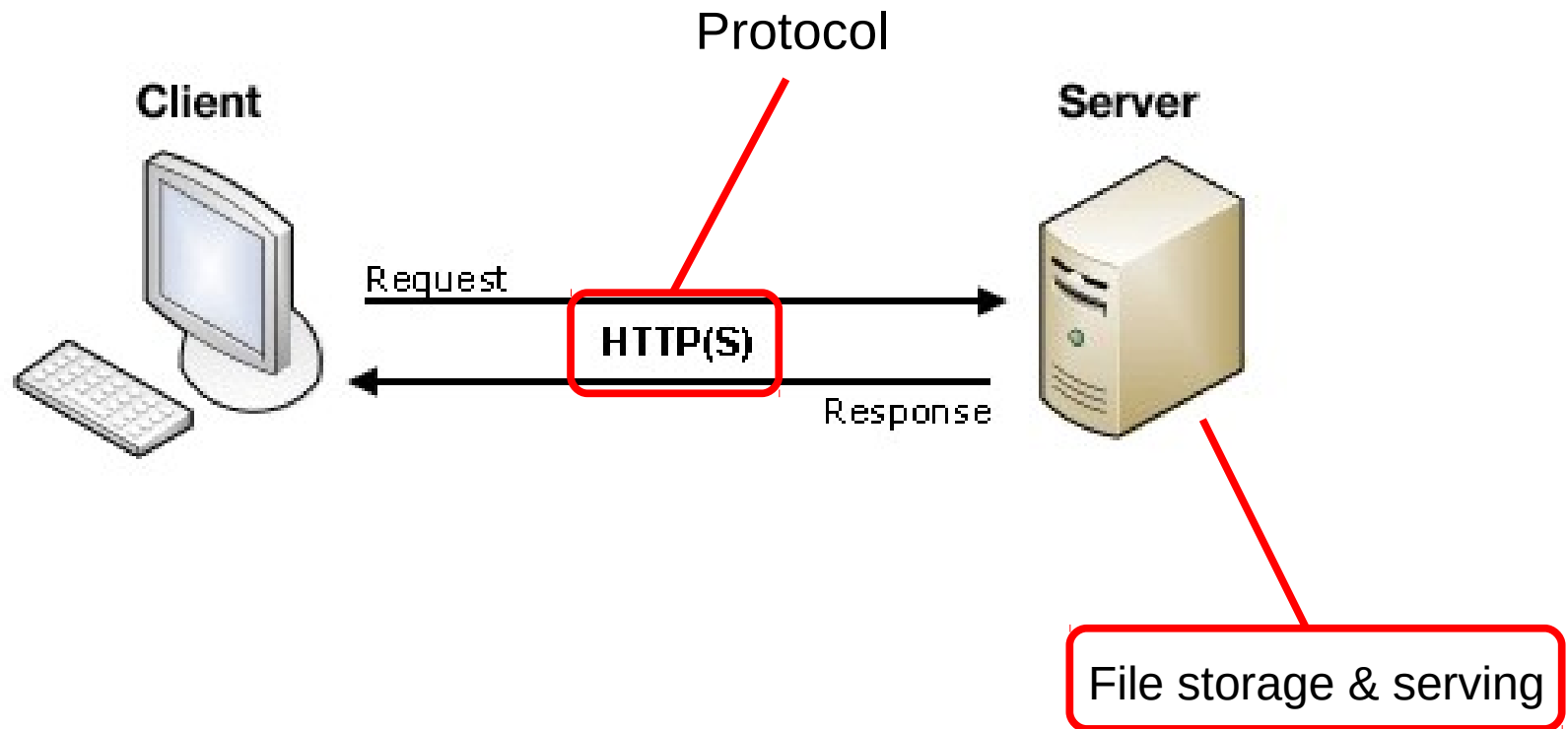
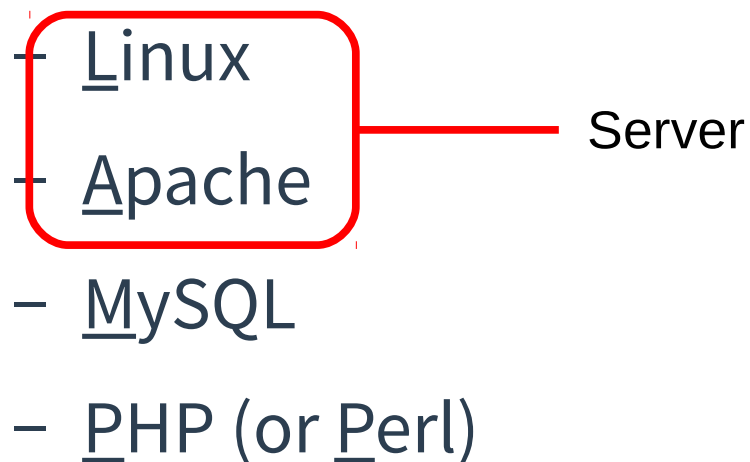


Image from https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/Forms/Sending_and_retrieving_form_data

The LAMP Stack

- Components:



- 1300: Linux, Apache, PHP.
- 2300: Adds MySQL.
- JavaScript is not part of the LAMP stack.



The HTML Standard

- The W3C (World Wide Web Consortium) maintains the official HTML standard.
 - <https://www.w3.org/>
 - <https://www.w3.org/TR/html5/>
- Current version is HTML5.
- The standard dictates what is valid HTML.
 - <https://validator.w3.org/>

Lots of things reported back as errors/warnings
for BitBucket & KB personal page



HTML: Key Components

- DOCTYPE
- Character encoding
 - UTF-8
 - <http://www.columbia.edu/~fdc/utf8/>
- Head
- Body



HTML: Elements

- **Tags**
 - Example, `<p>` for a paragraph.
 - Describe structure of page.
 - Opening tag: `<p>`
 - Closing tag: `</p>`
 - Tags do not appear on screen.
- **Element: the tag(-s) and content:**
 - `<p>This is a paragraph.</p>`



Key Points

- Validate your HTML (and CSS).
- Maintain good directory structures.
- Be patient with the appearance of your pages!
- Explore HTML tags.



To-Do List

- **Install Git.**
 - Include Git Bash option.

