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.

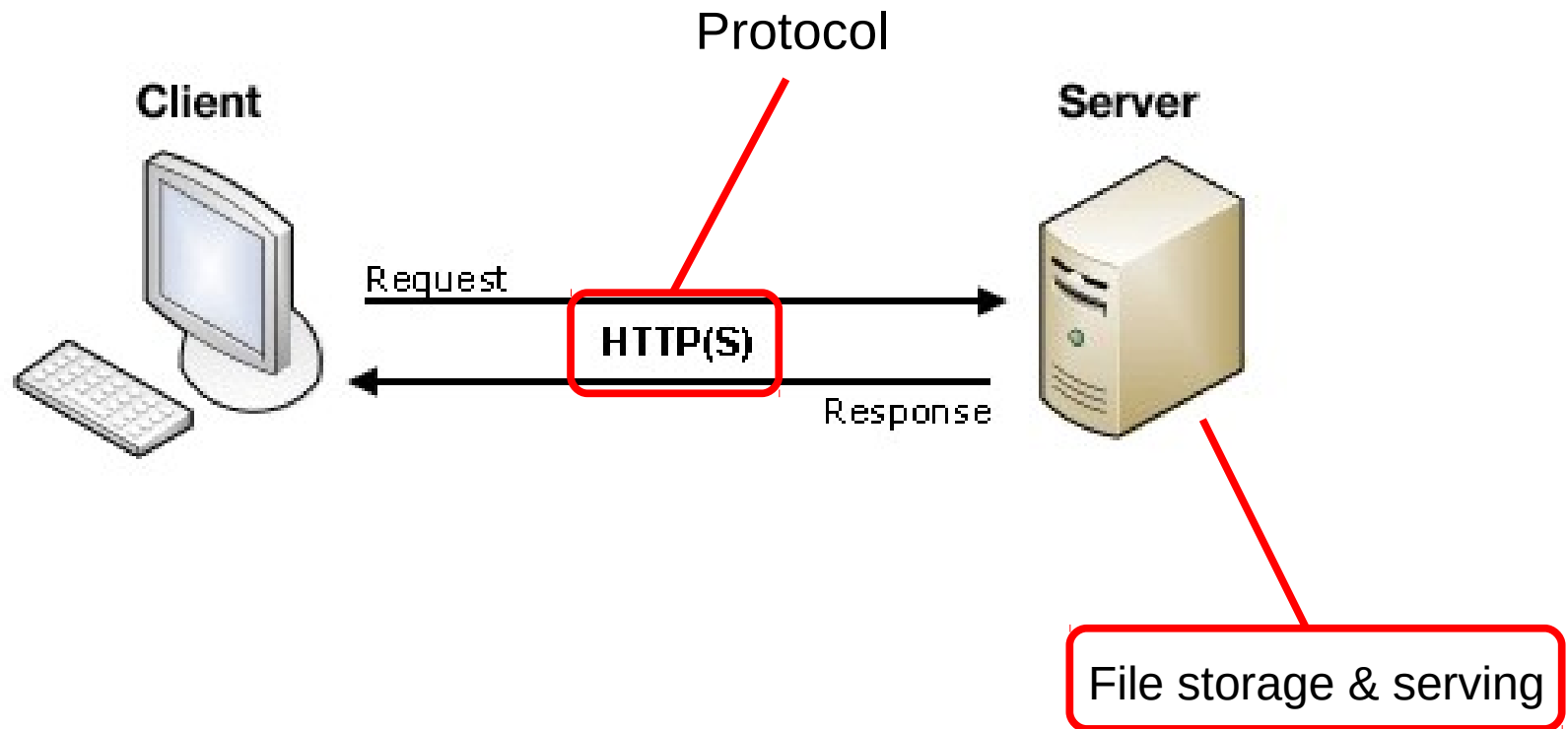 – Use basic version control.
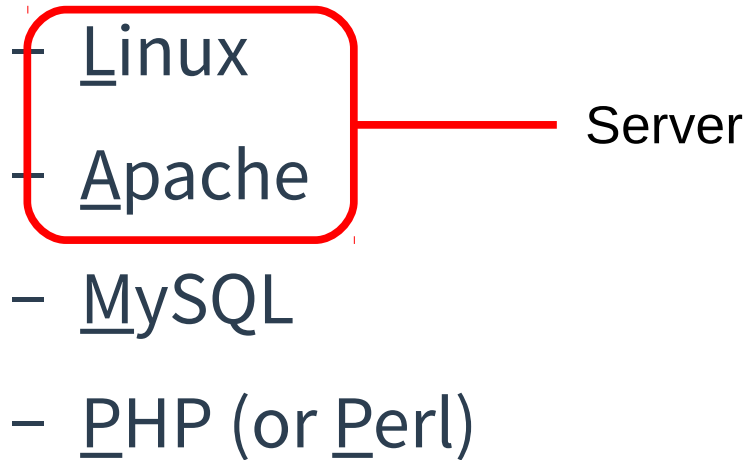
Web Architecture Simplified (a lot!)

Protocol

Client

Server

Request

HTTP(S)

Response

File storage & serving

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

The LAMP Stack

- **Components:**

  - <u>L</u>inux

  - <u>A</u>pache   Server

  - <u>M</u>ySQL

  - <u>P</u>HP (or <u>P</u>erl)

- **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 <u>valid</u> HTML.**
  - https://validator.w3.org/

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 <u>structure</u> 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.