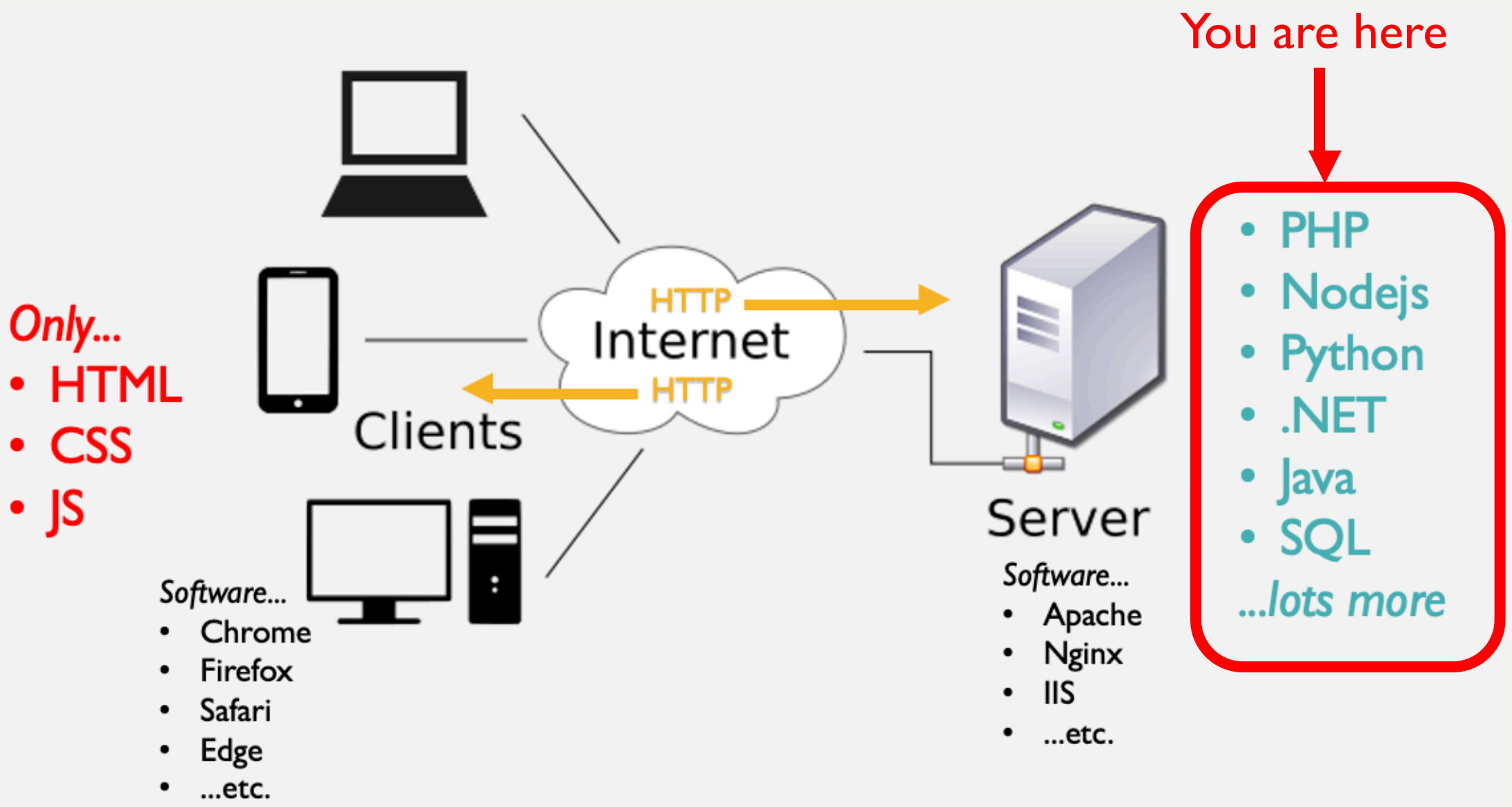
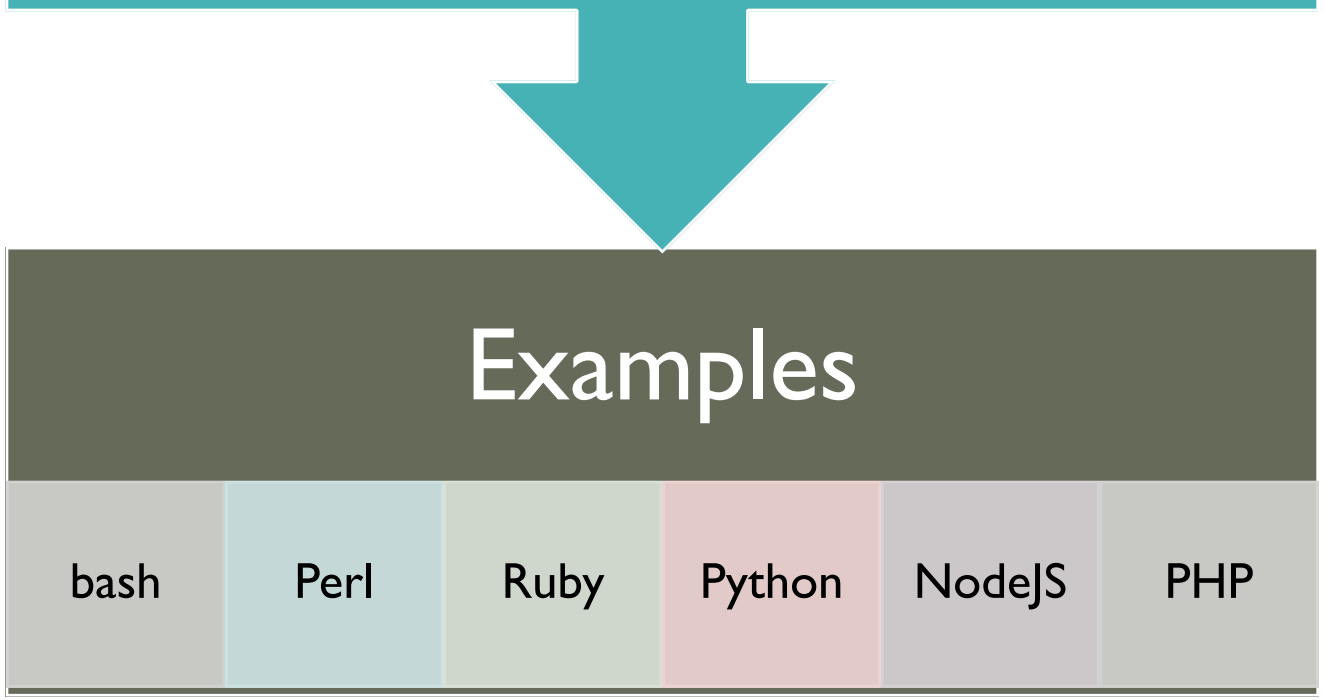
# SERVER-SIDE SCRIPTING

FEATURING PHP


You are here
Only...
• HTML
• CSS
• JS
HTTP
Internet
HTTP
Clients
Server
• PHP
• Nodejs
• Python
• .NET
• Java
• SQL
...lots more
Software...
• Chrome
• Firefox
• Safari
• Edge
• ...etc.
Software...
• Apache
• Nginx
• IIS
• ...etc.

# SCRIPTING LANGUAGES

Google: **Scripting language vs. programming language**



# CLIENT-SIDE SCRIPTING LANGUAGES

| Language | Comments |
| --- | --- |
| JavaScript | Based on ECMAScript, originally introduced by Netscape Communications, Inc. in conjunction with Sun Microsystems (1995) |
| ~~JScript~~ | Also based on the ECMAScript standard; introduced by Microsoft to run in early versions of Internet Explorer (1996); later killed off by Microsoft |

# SERVER-SIDE SCRIPTING LANGUAGES

| Language | Comments |
| --- | --- |
| PHP | The most popular server-side language used on the web. |
| ASP.NET | Web-application framework developed by Microsoft. |
| Node.js | Can run on a multitude of platforms, including Windows, Linux, Unix, Mac, etc. |
| Java | Used in everything from your car stereo's Bluetooth to NASA applications. |
| Ruby | Dynamic. Focuses heavily on simplicity. |
| Perl | A bit of a mashup between C, shell script, AWK, and sed. |
| Python | Commonly used for business applications; great for beginners to learn. |

# PHP: HYPERTEXT PREPROCESSOR

**PHP IS A** "RECURSIVE ACRONYM"

# HOW IT WORKS

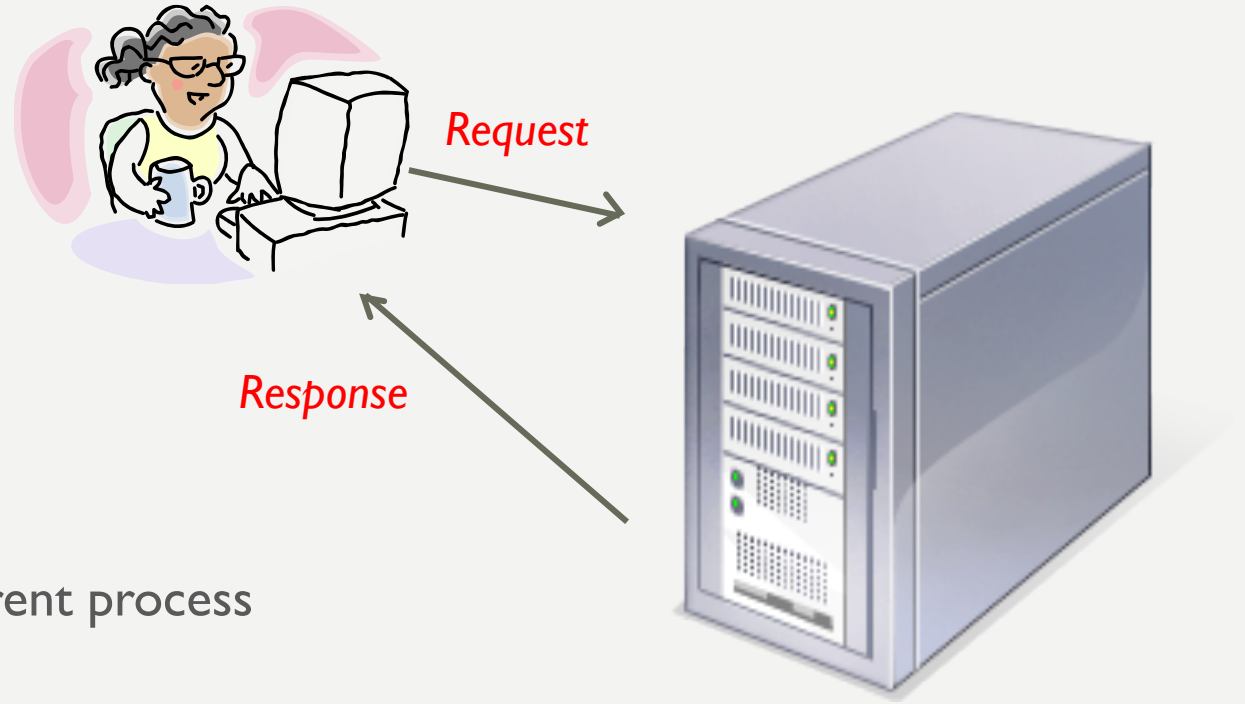
The normal process is:

1. Request (URI)
2. Locate
3. Respond (files sent)

With server-side scripts, there is a slightly different process

1. Request (URI)
2. Locate
3. Read ← a "trigger" happens
4. Execute
5. Rebuild
6. Respond (files sent)

the "include" process




*Remember: the Web uses a client/server network architecture*

# PHP SYNTAX

- Trigger: `.php` instead of `.html`
- Among HTML`<?php ... ?>`
- Variables: `$___`
- Super globals `$_GET[]` and `$_POST[]`
- Other super globals https://csc210.org/globals.php

# RUNNING PHP ON A LOCALHOST

- WORKSHOP
  - install PHP (?) or use UR Virtual Desktops or work directly on the class web server
  - Run the build-in web server
    https://www.php.net/manual/en/features.commandline.webserver.php
    - `cd` [to document root]
    - `php -S localhost:80`