

WEEK 11: PHP WRAP-UP

INFO/CS
1300: Fall
2016

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	Brief Assignments
CSS & Presentation	9/12 – 9/30	2	
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

- PHP:
 - Regular expressions.
 - Necessary & unnecessary complexity.
- PHP on your own site.

REGULAR EXPRESSIONS

- Strings and operators that establish a search pattern for use in parsing text.
 - Originated in the 1950s.
 - Widespread across many languages.
 - How is it pronounced? Yes, it's pronounced! Take your pick...
- Simple example: `/string/`
 - Searches for “string”.
 - Case-sensitive by default, i.e., will not find “String”.
- Example: `/string/i`
 - Case insensitive.
 - Will find “string” and “String”.

REGULAR EXPRESSIONS

- Capable of finding a very wide variety of patterns. Examples:
 - Capital and non-capital letters.
 - Numerals.
 - The beginning, middle, or end of a string.
 - A particular number, or range, of character occurrences.
- Features:
 - Anchors: operators to match a position, e.g., the beginning or end of a string, not a character(-s).
 - Character classes/sets:
 - `gr[ae]y` would match both “gray” and “grey”.
 - `[A-Z]` would match any normal, English capital letter.
 - `[0-9]` would match any numeral 0 – 9.

STRUCTURED PROGRAMMING AND NECESSARY COMPLEXITY

■ In the code...

- Find the data source in a programmatically shareable form.
- Find the block of variables, and explain what the variables will be used for.
- Find the section that formats the output so a colleague can reuse it.
- Find a reusable function that takes a string as an argument, and concatenates it with other characters into a usable regex.
- Call the function that creates a usable regex for the user, and which can be called repeatedly with no other effects.

■ Structured programming:

- Blocks of variables and functions.
- Internal function calls (PHP examples), or external function calls (JavaScript examples).

MANAGING PHP ON YOUR SERVER

- Publicly accessible parts of file tree vs. non-public parts.
 - “User land” sometimes used.
- Scripts in publicly accessible parts of file tree can create an increased security risk.
- Scripts should, ideally, be located outside the publicly accessible directories.
 - Requires correctly configured permissions.
 - Requires access to server configuration.