

# **WEEK 11: DATA HANDLING WITH PHP**

**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	

INFO/CS 1300 : Week 11 Monday: PHP & Data  
Handling

# AGENDA

## ■ Final Project:

- Project groups announced soon.
- Most groups will be formed within lab sections.
- Students taking course pass/fail will be in groups together.
- Due: Thursday, December 8 at 11:30 am.
  - Hard deadline set by University.
  - You may need to be on campus.

## ■ PHP:

- Data handling

# EXAMPLE CODE

- Archery tournament scores:
  - Score values 7-10.
  - $x = 10$ , but used as tiebreaker.
- CSV data with mixed data element type (string and integer).
- Need to total up the scores, and calculate the number of  $x$  scores.
  - Databases may have calculated fields...
  - ... but calculation is often done post-query.

# THREE FUNCTIONS

- Get data into an array for looping.
- Total scores:
  - Translate each x to 10.
  - Track the number of x scores for each archer.
  - Total scores for each archer.
- Create display code for inside the `tbody` tag.

# GET\_SCORES FUNCTION

- Read in CSV file, assuming valid data.
  - 2-dimensional array to reflect rows and columns of data.
- Keep code relatively generic so that it can be used for a variety of data retrieval.
- Keep code simple, i.e., don't mix retrieval and processing.

# SCORE\_TOTALER FUNCTION

- Take in 2-dimensional array from `get_scores` function.
- Go through each row.
  - Check each score value, numbers first.
  - Convert each x to a 10.
  - Total up each archer's score.
  - Total up each archer's x scores.
  - Append total score and total x scores to each archer's array.
  - Append each archer's array to the new array (`totaled_array`).
- Return `totaled_array`.

# DATA\_DISPLAY FUNCTION

- Create body of table, i.e. elements inside the `tbody` element:
  - Read in array from `score_total`.
  - Create one row per archer.
  - Read first and last names into first cell of each row.
  - Create a cell for each remaining value in the array.
    - Either x or an integer 7 – 10.
    - The total score.
    - The x total.
  - Format the HTML output? No easy answer.