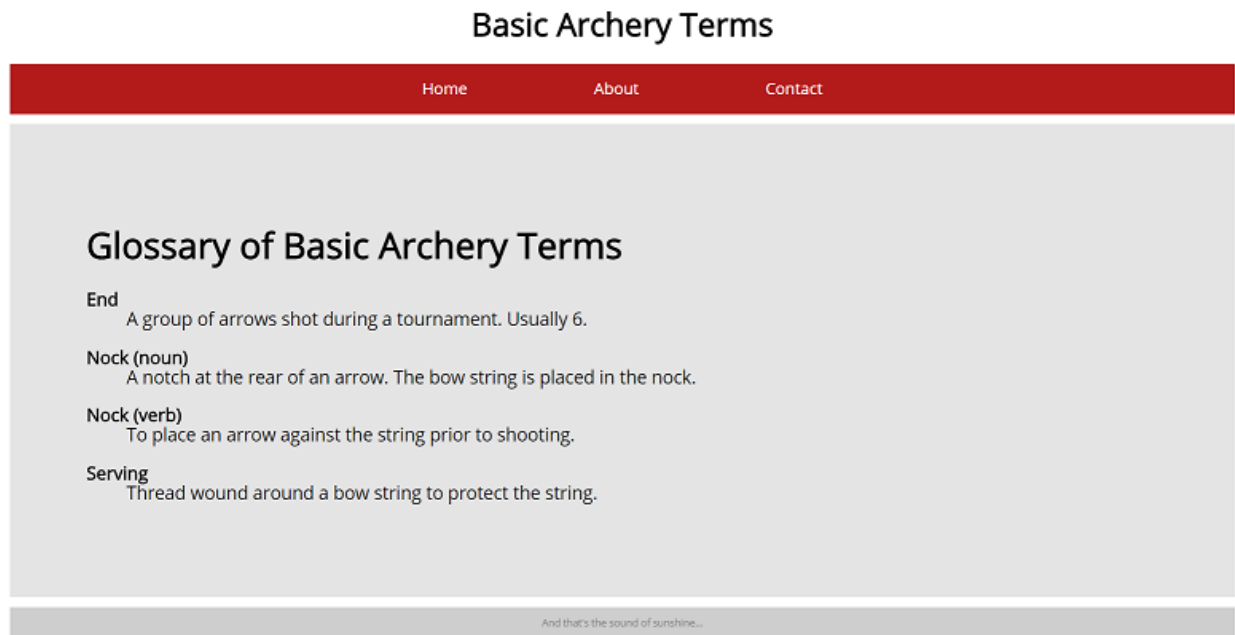**Assignment 9: PHP & Data Processing**
INFO/CS 1300
Fall 2016

Overall Goals:

In this assignment, you will create a brief, hypothetical glossary of archery terms. The goal is to have the glossary updated automatically whenever data is added, with no further human intervention. This will be simulated by reading in a CSV file as explained in lecture. You should use the starter code, and write a PHP script that will produce a glossary that looks very similar to the sample image below. You will also need to do a small amount of styling.

You will need to figure out some of the features on your own. You will need to look up:

- How to create an HTML `dl` list.
- How to read key-value pairs into an associative array. You may find this page helpful: https://www.sitepoint.com/community/t/adding-elements-to-a-php-associative-array/1948/2.
- How to sort an associative array by keys.

Basic Approach:

Create three functions in the PHP script that reads in the data and creates the `dl` list:

- Read the CSV file in the `data` subdirectory into an array.
- Convert the normal array to an associative array, and sort the associative array by keys.
- Create a `dl` list from the sorted array.

The HTML output must validate. In this case you can use the validation feature on the course server because you are validating the HTML output, not the PHP source code.

General Guidelines:
- You may not hard code for the *number of key value pairs* appended to the associative array. In other words, do not hard code for the number of lines read in from the CSV file.
- You may hard code for the first element in each key-value pair to be the `dt`, and the second element to be the `dd`.
- Assume the data in the CSV file is valid. The CSV file simulates validated database output or a similar data source.
- You are free to adapt lecture and lab code, but remember to change function and variable names, remove unnecessary code, etc.

Deliverables:
- The main file should be named `index.php` and placed in a directory named `assignment09`.
- The PHP script to process the CSV file, placed in a directory named `scripts`, and included in the `index.php` file. The script should be named `glossary.php`.
- Styling information in `styles/styles.css` to create space for readability between the `dl` list entries.

Due: Tuesday, November 8th at 5 pm.