

Project 5

Due Date: December 5

Purpose

The purpose of this rather short project is to create a simple HTML 5 web page that includes a small JavaScript program. The JavaScript will incorporate input, variables, computations, and simple graphics.

Problem

Every college student should understand how to compute his/her grades. To this end, you will create a web page that does just that. It will allow the user to input some grades, calculate the average, and display the grades in a standard bar chart.

Input

The web page should have a form that allows the user to input 4 grades, worth 20%, 20%, 25%, and 35%, respectively. Not that it is legal to leave a grade blank. The final item input by the user is the total percentage of points so far.

Output

You must write some JavaScript to use the data given in the form to compute your current average, with 1 decimal place. The page should display this nicely with an appropriate label.

The more exciting part of the web page is to display a bar chart showing each of the input grades and the average. Each bar should be properly scaled. The bar denoting the average should be in a different color. The graph should be clear and properly labeled.

Specifics

- The project is in two parts: the input portion and the output portion.
- The web page for each portion should look similar, so that the user does not think she moved to a different site.
- The web page should have a good title, nice heading, good colors (bright colors are generally **not** good design), etc.
- Clear spacing, spelling, etc., count!
- Turn in your .html file to me electronically via an email attachment. Name your file:
Last_nameFirst_initialProj5.html
For example, my file would be called GousieMProj5.html. The email subject should read: "FYS Project 5 Submission."
- For the project to be on-time, submit before 11:59:59PM on the due date¹

Notes

Don't wait to the last minute to complete the JavaScript. As you know from class, errors are sometimes very hard to find. Try to add one line at a time, and make that line work properly. See me during office hours if you have a problem.

¹However, as we discussed in class, the due date is somewhat *flexible*.