

Subject: JavaScript Quiz

Date: October 18

You have been given in Moodle a completed html file called elon.html, a completed css file called elon.css and an empty JavaScript file, elon.js. For this quiz, you are required to complete the JavaScript functionality into the empty JavaScript file to provide the following behavior. For this example, consider a tax rate of .08 and that each donut costs 60 cents.

For submission, please print a hard copy of your elon.js and submit a soft copy of elon.js to Moodle. Note: If you have changed, added or removed any code to elon.html and/or elon.css then print all three files for the hard copy and zip up a folder of all three files and submit to Moodle. Please insure your name is on each hard and soft copy submission.

- Create JavaScript code that gets called whenever a user types a valid number into the input fields associated with the labels for # of caked donuts or # of glazed donuts. (Hint: consider adding an event listener(s) for each input of type change or input instead of click). The JavaScript code should automatically update the fields for Subtotal, Tax and Total. For example, Figure 1 shows the html file upon initial display. Figure 2 shows the display after a user types in the number 3 into # of caked donuts. Figure 3 shows the display after a user types in the number 4 into # of glazed donuts.

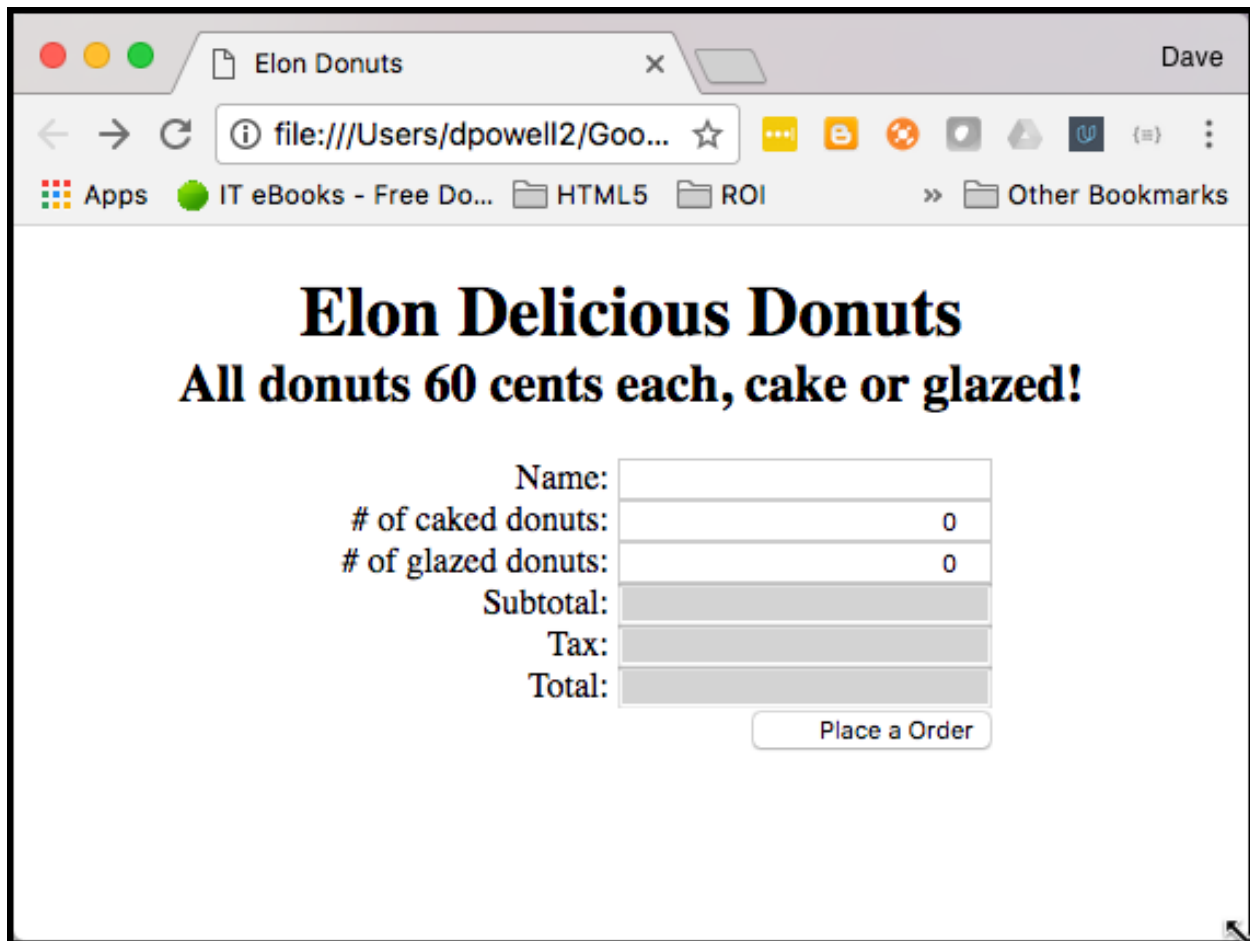


Figure 1: Initial display of elon.html.

The screenshot shows a web browser window with the title 'Elon Donuts' and a user named 'Dave'. The address bar shows a file path: 'file:///Users/dpowell2/Goo...'. The browser's bookmark bar includes 'Apps', 'IT eBooks - Free Do...', 'HTML5', 'ROI', and 'Other Bookmarks'.

Elon Delicious Donuts

All donuts 60 cents each, cake or glazed!

| | |
|---------------------|-------------------------------------|
| Name: | <input type="text" value="Edward"/> |
| # of caked donuts: | <input type="text" value="3"/> |
| # of glazed donuts: | <input type="text" value="0"/> |
| Subtotal: | \$1.80 |
| Tax: | \$0.14 |
| Total: | \$1.94 |

Figure 2: Display after user enters a Name and 3 for # of caked donuts. As soon as the user enters a number into # of caked donuts then the input fields associated with the labels: Subtotal, Tax and Total are updated.

The screenshot shows a web browser window with the title 'Elon Donuts'. The address bar shows a file path: `file:///Users/dpowell2/Goo...`. The browser's bookmark bar includes 'Apps', 'IT eBooks - Free Do...', 'HTML5', 'ROI', and 'Other Bookmarks'. The main content area displays the following:

Elon Delicious Donuts

All donuts 60 cents each, cake or glazed!

| | |
|---------------------|--------|
| Name: | Edward |
| # of caked donuts: | 3 |
| # of glazed donuts: | 4 |
| Subtotal: | \$4.20 |
| Tax: | \$0.34 |
| Total: | \$4.54 |

Place a Order

Figure 3: Display after user types 4 for # of glazed donuts. As soon as the user enters a number into # of glazed donuts then the input fields associated with the labels: Subtotal, Tax and Total are updated.