

Short Exercises

Each of these exercises is designed to test just one or two JavaScript or jQuery skills, and each is designed so it can be done within 5 to 30 minutes. At the start of each exercise, you'll see an estimated time for the exercise.

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Guidelines for doing the short exercises

- For all the short exercises, you will start with the HTML, CSS, and JavaScript or jQuery for the application. Then, you will modify the JavaScript or jQuery as directed by the exercise.
- Unless an exercise specifies that you need to modify the HTML or CSS, you won't have to do that.
- Make sure every application is coded in strict mode.
- If you are doing an exercise in class with a time limit set by your instructor, do as much as you can in the time limit.
- Feel free to copy and paste code from the book applications or exercises that you've already done.
- Use your book as a guide to coding.

Short 1-1 Test an application and find an error

In this exercise, you'll run a version of the Email List application and discover that it stops running due to a coding error. Then, you'll use Chrome to identify the statement that caused the error. Estimated time: 5 to 10 minutes.

Please join our email list

Email Address:

Confirm Email Address: Emails must match.

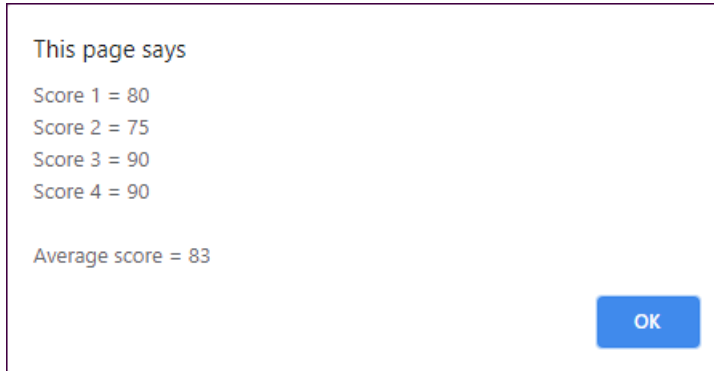
First Name: First name is required.

1. Open the application in this folder:
`exercises_short\ch01\email_list`
2. Start the application, enter an email address in the first text box, and click the Join List button. Note the error messages that are displayed to the right of the other two text boxes.
3. Enter a different email address in the second text box, and enter your name in the third text box. Then, click the Join List button to see what error messages are displayed.
4. Enter valid data in all three text boxes and click the Join List button. Then, note that nothing happens.
5. Use Chrome's developer tools to locate the statement that caused the error.
6. Use your editor or IDE to fix the error (change *submitt* to *submit*). Then, save your files, and test the application again with valid data. This time, a new page should be displayed when you click the Join List button.

Short 2-1 Modify the Test Scores application

In this exercise, you'll modify the Test Scores application so it provides for four test scores and displays the results in a dialog box like the one that follows.

Estimated time: 10 to 20 minutes.



1. Open the application in this folder:
`exercises_short\ch02\test_scores`
2. Run the application, and note that it works like the one in the book and that it writes the results to the browser page. Then, review the code in the JavaScript file, and note that it's slightly different than the code in the book, although it gets the same results.
3. Modify the application so it provides for a fourth test score.
4. Modify the application so it displays the results in a dialog box like the one above, as well as in the browser page after the dialog box is closed.

Short 3-1 Enhance the Future Value application

In this exercise, you'll make a quick enhancement that shows not only the future value when interest is compounded yearly, but also when it's compounded monthly. As a result, the display in the browser should look like this:

The Future Value Calculator	
Future Value with Yearly Interest	
Investment amount:	10000
Interest rate:	7.5
Years:	10
Future Value:	20610.32
Future Value with Monthly Interest	
Investment amount:	10000
Interest rate:	7.5
Years:	10
Future Value:	21120.65

Estimated time: 15 to 20 minutes.

1. Open application in this folder:
`exercises_short\ch03\future_value`
2. Run the application to make sure it works correctly.
3. Review its code. Note that it is just like the code in the book and that the interest is calculated each year.
4. Add the code for calculating the future value when interest is calculated each month. Then, add the code for displaying the results, as shown above. Be sure to add the heading that identifies each result.
5. ctly.