



Assessment 4: Write and design a plug-in from scratch (25 points)

Due: see the course outline for a specific date

In this assignment, you will practice creating a jQuery plug-in. Please check the instructions and requirements to complete this assignment.

■ Instructions

In Assignment 3, you created a to-do list web application. In this assignment, you need to print only the list element to a pdf file—not to a browser console or HTML page. The list should be printed using a browser printing feature. Only the list items and their content should be printed; all other page elements must not be printed.

Tips: jQuery does not have the print feature, so you need to use the JavaScript `print()` function. Notice that the `print()` function does not accept any data or parameters. It can be chained to a document or window object, such as **`window.print()`**; . The best way to print just part of the page is by creating one. Here is how to create a window/document and print out using JS functions:

1. Create a window using the 'open()' function. It's better to use a variable so we can work on the window object later:

E.g. `var print_window = window.open();`

2. Write content to the window object using the 'write()' function. This function can take any type of content, but you need to pass the content as a string or DOM object. You can pass one or multiple elements, e.g. `write("content", "div")`:

E.g. `print_window.document.write("print me")`

3. Now, print the content using the `print()` function. As with the `open()` function, above, just chain a document/window to the `print()` function:

E.g. `print_window.document.print();`

4. Finally, close the window using the `close()` function, `window.close()` :

E.g. `print_window.close();`

If you followed the steps above, you now only need to figure out how to format your content using jQuery function, then pass it to the write function. You can use this example:

```
var print_window = window.open(); // Create a new window
var world = "world"; // content
print_window.document.write("Hello" + ' ', world); // add content to the page
print_window.print(); // print hello world
print_window.close(); // close the window
```

■ Requirements

1. The list elements should print **under** each other; not in one line.
2. Print only the list content; not the whole DOM object.
3. Print the list using the style listed below:

- a. The font must be bold.
 - b. The font size must be 14 points.
 - c. The font color must be black.
4. The list should be entitled 'List:' and the title font size should be 16 points.



Figure 1: An example of possible output

5. All current list items should be printed. That means if the list content was updated, you should print the most recently updated version of this content.

Please refer to the rubric at the end of this document for evaluation details.

Submission

1. Name your folder plug-in_project.
2. Right-click on the folder and select 'Send to -> Compressed (zipped) folder'.
3. Upload the zipped folder to the Assignment 4 Dropbox

Wrap up your project:

Now, check all project folders and files, ensuring that they all open without any problems. Next, zip your main/root folder, and send only that zip folder. Here are some links that may help with file formatting:

- How to zip a file in Windows 10: <https://www.laptopmag.com/articles/how-to-zip-files-windows-10>
 - Free file compressor application for Windows: <http://www.7-zip.org/download.html>
- How to zip a file in Mac: <https://www.lifewire.com/how-to-zip-and-unzip-files-and-folders-on-a-mac-2260188>
 - Free file compressor application for Mac: <https://theunarchiver.com/>
- How to save a pdf in MS Word document: <https://www.bettercloud.com/monitor/the-academy/save-word-doc-pdf/>

Evaluation

This assessment is graded out of 25 points and will be evaluated using the following rubric.

Learners may receive partial scores or zero for unacceptable work.

	Excellent: 5 point	Good: 3 point	Fair: 1 point	Poor: 0 point	Score
The list elements printed under each other; not in one line.					/5
Only the list content was printed; not the whole DOM object.					/5
The list was printed using the required style, and the list was entitled 'List:' and the title font size was 16 points.					/5
All current list items were printed. That means if the list content was updated, the most recently updated version of this content was printed.					/5
Coding	There are no errors in coding on the site, as found by me or an online validator.	There are 1-3 coding errors on the site, as found by me or an online validator.	There are 4-5 coding errors on the site, as found by me or an online validator.	There are more than 6 coding errors on the site, as found by me or an online validator.	/5
				TOTAL	/25