

COMP2132 :: ASSIGNMENT 03

OBJECTIVE Write and run three Javascript functions.

REQUIREMENTS As always, present your assignment work in well structured, valid HTML code nicely styled with CSS.

Obtain a copy of the **data.js** file from the learning hub. Load this script, unmodified, into your Javascript application for this assignment. Be sure to utilize all the variables defined in this data file as test arguments for demonstrating your functions.

Write and apply to the HTML a **my-functions.js** file that contains three functions written by you, and detailed below.

Write and apply to the HTML an **assignment03.js** file that will make use of the data from **data.js** and the functions from **my-functions.js** to invoke and demonstrate the **three** functions with all test data.

PART ONE: Function for listing images

Write a function that will display an HTML list of images if provided an array of image file names. It required the following characteristics:

- Requires an array as parameter
- If the parameter is not an array, provide helpful error message feedback and do not proceed to make a list
- If the parameter is an array loop through all items. If any item is not a string, abort the list making process, provide helpful error message feedback and do not proceed.
- If the array data are all strings, proceed to make an HTML unordered list with one img for each list item. The img tags should include alt="" attributes using the image file name

PART TWO: Function for listing links

Write a function that will display an HTML list of links if provided an array of string URLs. It required the following characteristics:

- Requires an array as parameter
- If the parameter is not an array, provide helpful error message feedback and do not proceed to make a list
- If the parameter is an array loop through all items. If any item is not a string, abort the list making process, provide helpful error message feedback and do not proceed.
- If the array data are all strings, proceed to make an HTML unordered list with one a tag for each list item. The clickable text of the a tags should can be the URL (use the URL for both the href and the text contents of the a tag)

PART THREE: Function for listing names

Write a function that will display an HTML list of names if provided an array of names. It required the following characteristics:

- Requires an array as a parameter
- Allows an optional second parameter that will have the default value of the string "ul"
- Validates both parameters according to these rules: The first parameter must be of type array. If a second parameter is supplied it must be either the string value "ol" or "ul"
- Any invalid arguments provided (eg: a non-array for first parameter or a string that isn't "ol" or "ul" for second parameter) should result in a descriptive error message displayed to screen and the function should perform no further processing. It is also considered invalid if the array does not contain at least two or more data points.
- If parameter values are acceptable, the function should iterate over the array and display each item as a inside an HTML list.
- If a second parameter is supplied, use it to display the appropriate HTML list type to the browser (eg: display the array as either a or)

For all three functions, remember to invoke multiple times, each invocation should demonstrate how the function handles good as well as bad argument data. Eg:

//invoke with good data...

```
myAssignmentFunction( aRealArray ); //not using optional second param
```

```
myAssignmentFunction( aRealArray, "ol" ); //using optional second param
```

```
myAssignmentFunction( aRealArray, "ul" ); //using optional second param
```

//invoke with invalid data...

```
myAssignmentFunction( notARealArray );
```

```
myAssignmentFunction( aRealArray, "cheeseburger" );
```

SUBMISSION Assigned: Session 4

Due: 11:59pm the night before Session 5

Compress all files (HTML, CSS, JS, etc) and folders into a single **.ZIP** file and upload it to the Drop Box: <https://learn.bcit.ca> > COMP2132 > Session04 > Assignment03 Drop Box
Assignments must be uploaded to the Drop Box before the due date.
