

jQuery

Use Javascript's DOM API

Using JavaScript's DOM API, create the file script.js to manipulate the file index.html:

1. Download 3 images (one for each vídeo) and save them on the project folder with names 1.jpg, 2.jpg and 3.jpg
2. Create the file script.js (and call it from the html) to do the following:
 - a. Create an array with every link on the page
`[document.querySelectorAll(cssSelector)]`
 - b. Iterate over the array and, in each iteration:
 - i. Find the href attribute and store it in a variable
`[element.getAttribute(name)]`
 - ii. Create an img attribute with JavaScript
`[document.createElement(tagName)]`
 - iii. Define the img's src attribute to one of the images (1.jpg on the 1st iteration, ...) `[element.setAttribute(name, value)]`
 - iv. Add the image to the link `[element.appendChild(element)]`

Use jQuery library

Do the same as in exercise 1, this time using jQuery.

1. Download the jQuery library (<https://code.jquery.com/jquery-3.4.1.min.js>) to the project folder
2. Save index.html from exercise1 as index2.html
3. Include `<script type="text/javascript" src="PUT THE FILENAME HERE"></script>` on the html to call the jQuery library
4. Create the file script2.js to do the same as script.js, but this time with jQuery. Do not forget to change the file name where you call the script on the html.

Add effects

Save the files index2.html and script2.html as index3.html and script3.html, respectively. Change the files in the following way:

1. On the HTML body, below the link list, create a div and insert an empty (without src) iframe with na id.
2. On the script, create the function thumbnailify() with a single parameter. Moove the code from inside your for cycle from the previous script to inside that function. The parameter is the jQuery elemento representing the link (a)
3. Move the cycle so that it runs only after the function is defined.
4. Call the function from within the cycle
5. Verify that the site has the same behaviour as on the end of exercise 2.
6. Create the function thumbnailCallback() that prevents the onclick default event to happen and only shows "link clicked" to the console.
7. On function thumbnailify, create na onclick listener that calls the thumbnailCallback() function
8. Change the thumbnailCallback function so that, when clicking the link, the embedded youtube video is shown on the iframe created before.

Note: the code needed to embed the **first** video is:

```
<iframe width="560" height="315"
src="https://www.youtube.com/embed/OW2i8coF1Bo"
frameborder="0" allow="accelerometer; autoplay; encrypted-
media; gyroscope; picture-in-picture"
allowfullscreen></iframe>
```

Use plugins

1. Download the funText plugin (<https://github.com/briznad/funText/>) to the project folder.
2. Save the file index3.html as index4.html
3. Call the plugin on the html
4. Apply funText (documentation: <http://briznad.github.io/funText/>) to the page header