

JavaScript DOM manipulation

↑ Novice

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⚙ Weight: 1

☑ **Manual QA review must be done** (request it when you are done with the project)

JavaScript DOM Manipulation

Resources

Read or watch:

- What is JavaScript? (/rltoken/J3eODWe9y3RX1szVXZrD4Q)
- Introduction to the DOM (/rltoken/R6U3tUAdKDqDDhsYJw1JrQ)
- Document Interface (/rltoken/VBwvMfwoEllcvVa-Rc9LJg)
- Element Class (/rltoken/3f2toV3UxRn01mxEV3o9Xg)
- Locating DOM elements using selectors (/rltoken/xiqFAXX9ZYKHQ0R_STL9Tg)
- CSS Selectors (/rltoken/wpSFF7uL4ZQJ5LE3PXI5Uw)
- CSS Diner (/rltoken/GunCAsRgUiuvrDkp07w6jw) Play with Selectors
- Client-side Web APIs (/rltoken/gj5edptaWMeVZXkfPnzvPA)
 - Introduction to web APIs (/rltoken/MXI686trnIVFrvalig5JWw)
 - Manipulating documents (/rltoken/J98Ezd-CKsVol4TYPNbVeA)
 - Fetching data from the server (/rltoken/iFjVRw0SGECiqfJlCg-ONQ)
- What went wrong? Troubleshooting JavaScript (/rltoken/zaVe3KcXBF2woAXTo9TQCA)

Learning Objectives

At the end of this project, you are expected to be able to explain to anyone (/rltoken/pGqFy8d950j1zgO0VJQEPA), without the help of Google:



General

- How to select HTML elements in JavaScript
- What are differences between ID, class and tag name selectors
- How to modify an HTML element style
- How to get and update an HTML element content
- How to modify the DOM
- How to make a request with XMLHttpRequest
- How to make a request with Fetch API
- How to listen/bind to DOM events
- How to listen/bind to user events

Requirements

General

- Allowed editors: All of them.
- All your files will be interpreted on Chrome browser (version 57.0 or later)
- All your files should end with a new line
- A mandatory `README.md` file with meaningful information about the content, should be placed at the root folder of the project.
- Your code should be semistandard compliant
- You are not allowed to use `var`
- HTML should not reload for each action: DOM manipulation, update values, fetch data...

Tasks

0. Color Me

mandatory

Write a JavaScript script that updates the text color of the `header` element to red (`#FF0000`):

- You must use `document.querySelector` to select the HTML tag

Please test with this HTML file in your browser:



```
javiercito@ubuntu:~/javascript-dom_manipulation$ cat 0-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <footer>
      Holberton School - 2022
    </footer>
    <script type="text/javascript" src="0-script.js"></script>
  </body>
</html>
javiercito@ubuntu:~/javascript-dom_manipulation$
```

Repo:

- GitHub repository: holbertonschool-higher_level_programming
- Directory: javascript-dom_manipulation
- File: 0-script.js

Help

0/0 pts

1. Click and turn red

mandatory

Write a JavaScript script that updates the text color of the `header` element to red (`#FF0000`) when the user clicks on the tag with id `red_header` :

Please test with this HTML file in your browser:

```
javiercito@ubuntu:~/javascript-dom_manipulation$ cat 1-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <div id="red_header">Red header</div>
    <footer>
      Holberton School - 2022
    </footer>
    <script type="text/javascript" src="1-script.js"></script>
  </body>
</html>
javiercito@ubuntu:~/javascript-dom_manipulation$
```



Repo:

- GitHub repository: holbertonschool-higher_level_programming
- Directory: javascript-dom_manipulation
- File: 1-script.js

Help

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2. Add `red` class

mandatory

Write a JavaScript script that adds the class `red` to the `header` element when the user clicks on the tag with id `red_header`

Please test with this HTML file in your browser:

```
javiercito@ubuntu:~/javascript-dom_manipulation$ cat 2-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <style>
      .red {
        color: #FF0000;
      }
    </style>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <div id="red_header">Red header</div>
    <footer>
      Holberton School - 2022
    </footer>
    <script type="text/javascript" src="2-script.js"></script>
  </body>
</html>
javiercito@ubuntu:~/javascript-dom_manipulation$
```

Repo:

- GitHub repository: holbertonschool-higher_level_programming
- Directory: javascript-dom_manipulation
- File: 2-script.js

Help

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3. Toggle classes

mandatory

Write a JavaScript script that toggles the class of the `header` element when the user clicks on the tag `id toggle_header` :

The `header` element must always have one class: `red` or `green` , never both in the same time and never empty. If the current class is `red` , when the user click on `id toggle_header` element, the class must be updated to `green` ; and the reverse.

Please test with this HTML file in your browser:

```
javiercito@ubuntu:~/javascript-dom_manipulation$ cat 3-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <style>
      .red {
        color: #FF0000;
      }
      .green {
        color: #00FF00;
      }
    </style>
  </head>
  <body>
    <header class="green">
      First HTML page
    </header>
    <div id="toggle_header">Toggle header</div>
    <footer>
      Holberton School - 2022
    </footer>
    <script type="text/javascript" src="3-script.js"></script>
  </body>
</html>
javiercito@ubuntu:~/javascript-dom_manipulation$
```

Repo:

- GitHub repository: `holbertonschool-higher_level_programming`
- Directory: `javascript-dom_manipulation`
- File: `3-script.js`

Help

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4. List of elements

mandatory

Write a JavaScript script that adds a `li` element to a list when the user clicks on the element with `id add_item` :



The new element must be: `Item` The new element must be added to the `ul` element with class `my_list`

Please test with this HTML file in your browser:

```
javiercito@ubuntu:~/javascript-dom_manipulation$ cat 4-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <br />
    <div id="add_item">Add item</div>
    <br />
    <ul class="my_list">
      <li>Item</li>
    </ul>
    <footer>
      Holberton School - 2022
    </footer>
    <script type="text/javascript" src="4-script.js"></script>
  </body>
</html>
javiercito@ubuntu:~/javascript-dom_manipulation$
```

Repo:

- GitHub repository: holbertonschool-higher_level_programming
- Directory: javascript-dom_manipulation
- File: 4-script.js

Help

0/5 pts

5. Change the text

mandatory

Write a JavaScript script that updates the text of the `header` element to `New Header!!!` when the user clicks on the element with id `update_header`

Please test with this HTML file in your browser:



```
javiercito@ubuntu:~/javascript-dom_manipulation$ cat 5-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <br />
    <div id="update_header">Update the header</div>
    <br />
    <footer>
      Holberton School - 2022
    </footer>
    <script type="text/javascript" src="5-script.js"></script>
  </body>
</html>
javiercito@ubuntu:~/javascript-dom_manipulation$
```

Repo:

- GitHub repository: holbertonschool-higher_level_programming
- Directory: javascript-dom_manipulation
- File: 5-script.js

Help

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6. Star wars character

mandatory

Write a JavaScript script that fetches the character name from this URL: <https://swapi-api.hbtn.io/api/people/5/?format=json>

- The name must be displayed in the HTML tag with id `character`.
- You must use the Fetch API (/rltoken/mov5LF24GCfD957vJ0i7dg).
- You probably should read something about using Promises (/rltoken/sRgTVb2pzsne9C5-2xIJvQ) later.

Please test with this HTML file in your browser:



```
javiercito@ubuntu:~/javascript-dom_manipulation$ cat 6-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
  </head>
  <body>
    <header>
      Star Wars character
    </header>
    <br />
    <div id="character"></div>
    <br />
    <footer>
      Holberton School - 2022
    </footer>
    <script type="text/javascript" src="6-script.js"></script>
  </body>
</html>
javiercito@ubuntu:~/javascript-dom_manipulation$
```

Repo:

- GitHub repository: holbertonschool-higher_level_programming
- Directory: javascript-dom_manipulation
- File: 6-script.js

Help

0/5 pts

7. Star Wars movies

mandatory

Write a JavaScript script that fetches and lists the `title` for all movies by using this URL:
<https://swapi-api.hbtn.io/api/films/?format=json>

- All movie titles must be list in the HTML `ul` element with id `list_movies`
- You must use the Fetch API.

Please test with this HTML file in your browser:




```
javiercito@ubuntu:~/javascript-dom_manipulation$ cat 7-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
  </head>
  <body>
    <header>
      Star Wars movies
    </header>
    <br />
    <ul id="list_movies">
    </ul>
    <br />
    <footer>
      Holberton School - 2022
    </footer>
    <script type="text/javascript" src="7-script.js"></script>
  </body>
</html>
javiercito@ubuntu:~/javascript-dom_manipulation$
```

Repo:

- GitHub repository: holbertonschool-higher_level_programming
- Directory: javascript-dom_manipulation
- File: 7-script.js

Help

0/5 pts

8. Say Hello!

mandatory

Write a JavaScript script that fetches from <https://hellosalut.stefanbohacek.dev/?lang=fr> and displays the value of `hello` from that fetch in the HTML element with id `hello`.

- The translation of "hello" must be displayed in the HTML element with id `hello`
- Your script must work when it is imported from the `<head>` tag

Please test with this HTML file in your browser:



```
javiercito@ubuntu:~/javascript-dom_manipulation$ cat 8-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script type="text/javascript" src="8-script.js"></script>
  </head>
  <body>
    <header>
      Say Hello!
    </header>
    <br />
    <div id="hello"></div>
    <br />
    <footer>
      Holberton School - 2022
    </footer>
  </body>
</html>
javiercito@ubuntu:~/javascript-dom_manipulation$
```

Repo:

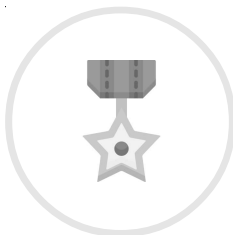
- GitHub repository: holbertonschool-higher_level_programming
- Directory: javascript-dom_manipulation
- File: 8-script.js

Help

0/5 pts

Done with the mandatory tasks? Unlock 2 advanced tasks now! (/projects/2868/unlock_optionals)

Score



Please review **all the tasks** before you start the peer review.

🚀 Ready for my review



(/)

[Previous project \(/projects/2351\)](/projects/2351)

[Next project](#)

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