(/)

Curriculum
**SE Foundations** ⌃
Average: **108.76%** ⌄

# 0x15. JavaScript - Web jQuery

**Front-end**   **JavaScript**

👤 By: Guillaume, CTO at Holberton School

⚙ Weight: 1

📅 Project over - took place from Oct 4, 2023 6:00 AM to Oct 5, 2023 6:00 AM

☑ Manual QA review was done by Emmanuel Yeboah Manu on Oct 5, 2023 4:32 AM

## In a nutshell…

- **Manual QA review:** 86.0/86 mandatory & 40.0/40 optional
- **Altogether: 200.0%**
  - Mandatory: 100.0%
  - Optional: 100.0%
  - Calculation: 100.0% + (100.0% * 100.0%) == **200.0%**

**Overall comment:**
Great work

## Concepts

*For this project, we expect you to look at these concepts:*

- JavaScript in the browser (/concepts/3)
- Dealing with data statically versus dynamically (/concepts/35)

(/)

# Resources

**Read or watch**:

- What is JavaScript? (/rltoken/NJ5XM_fzjlBKERHTkdF-uA)
- Selector (/rltoken/wsnVUxEcAzzlCx6ES1qc7g)
- Get and set content (/rltoken/rwtc96sn2_LHToBAd0MlhQ)
- Manipulate CSS classes (/rltoken/IcM5kKVzssU0ibdUo-2gKQ)
- Manipulate DOM elements (/rltoken/ve8UKsZLVw2t27PtWscZfQ)
- API (/rltoken/vKc7XmiHG7Hlh3N0Kl_VQw)
- Introduction (/rltoken/QiUwuS_9TXE49D5IVL-ocg)
- GET & POST request (/rltoken/Mbe7uoy0iMAfTVs2Tn4Pzg)
- JQuery Ajax Tutorial #1 - Using AJAX & API's (/rltoken/gMwyXisSLu-kZicmGA0-LQ)
- What went wrong? Troubleshooting JavaScript (/rltoken/4eYyJr72PO-cohlmk93M3w)
- JQuery (/rltoken/HnjBq6jf84S9S-C15Qi0vw)
- JQuery API (/rltoken/jvibhq-8VEdQHNUWKTCI7w)
- JQuery Ajax (/rltoken/rBZyrXxuRuISDfPBzO9Y7Q)

# Learning Objectives

At the end of this project, you are expected to be able to explain to anyone (/rltoken/uOCIGjC7u4MtYfDwCwODTA), **without the help of Google**:

## General

- Why JQuery make front-end programming so easy (don't forget to tweet today, with the hashtag #ilovejquery :))
- How to select HTML elements in JavaScript
- How to select HTML elements with JQuery
- 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 `GET` request with JQuery Ajax
**(/)**• How to make a `POST` request with JQuery Ajax
- How to listen/bind to DOM events

# - How to listen/bind to user events

## Copyright - Plagiarism

- You are tasked to come up with solutions for the tasks below yourself to meet with the above learning objectives.
- You will not be able to meet the objectives of this or any following project by copying and pasting someone else's work.
- You are not allowed to publish any content of this project.
- Any form of plagiarism is strictly forbidden and will result in removal from the program.

# Requirements

## General

- Allowed editors: `vi`, `vim`, `emacs`
- All your files will be interpreted on Chrome (version 57.0)
- All your files should end with a new line
- A `README.md` file, at the root of the folder of the project, is mandatory
- Your code should be `semistandard` compliant with the flag `--global $`: `semistandard *.js --global $`
- You must use JQuery version 3.x
- You are not allowed to use `var`
- HTML should not reload for each action: DOM manipulation, update values, fetch data…

# More Info

## Import JQuery

```
<head>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
</head>
```

## Manual QA Review

**It is your responsibility to request a review for this project from a peer before the project's deadline. If no peers have been reviewed, you should request a review from a TA or staff member.**

## Quiz questions

**Great!** You've completed the quiz successfully! Keep going!  (Show quiz)

# Tasks                                                              Q

### 0. No JQuery                                                      mandatory

Score: 100.0% (*Checks completed: 100.0%*)

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
- You can't use the JQuery API

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 0-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <footer>
      Holberton School - 2017
    </footer>
    <script type="text/javascript" src="0-script.js"></script>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `0-script.js`

☑ Done!    Help    QA Review

## 1. With JQuery                                              mandatory

Score: 100.0% (*Checks completed: 100.0%*)

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

- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 1-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <footer>
      Holberton School - 2017
    </footer>
    <script type="text/javascript" src="1-script.js"></script>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `1-script.js`

☑ Done!     Help     QA Review

## 2. Click and turn red                                    **mandatory**

Score: 100.0% (*Checks completed: 100.0%*)

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

- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 2-main.html
(/)
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <div id="red_header">Red header</div>
    <footer>
      Holberton School - 2017
    </footer>
    <script type="text/javascript" src="2-script.js"></script>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `2-script.js`

☑ Done!     Help     QA Review

## 3. Add `.red` class                                          **mandatory**

Score: 100.0% (*Checks completed: 100.0%*)

Write a JavaScript script that adds the class `red` to the `<header>` element when the user clicks on the tag `DIV#red_header`

- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API

Please test with this HTML file in your browser:

🔍

```
guillaume@ubuntu:~/0x15$ cat 3-main.html
(/)
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
    <style>
      .red {
        color: #FF0000;
      }
    </style>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <div id="red_header">Red header</div>
    <footer>
      Holberton School - 2017
    </footer>
    <script type="text/javascript" src="3-script.js"></script>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `3-script.js`

☑ Done!    Help    QA Review

## 4. Toggle classes                                                          mandatory

Score: 100.0% (*Checks completed: 100.0%*)

Write a JavaScript script that toggles the class of the `<header>` element when the user clicks on the tag `DIV#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 `DIV#toggle_header`, the class must be updated to `green`; and the reverse.
- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API

Please test with this HTML file in your browser:
**(/)**

```
guillaume@ubuntu:~/0x15$ cat 4-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
    <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 - 2017
    </footer>
    <script type="text/javascript" src="4-script.js"></script>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `4-script.js`

[ ☑ Done! ]    [ Help ]    [ QA Review ]

## 5. List of elements                                    mandatory

Score: 100.0% (*Checks completed: 100.0%*)

Write a JavaScript script that adds a `<li>` element to a list when the user clicks on the tag `DIV#add_item`

- The new element must be: `<li>Item</li>`
- The new element must be added to `UL.my_list`
- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API

Please test with this HTML file in your browser:
**(/)**

```
guillaume@ubuntu:~/0x15$ cat 5-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
  </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 - 2017
    </footer>
    <script type="text/javascript" src="5-script.js"></script>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `5-script.js`

[☑ Done!]   [Help]   [QA Review]

## 6. Change the text                                                    `mandatory`

Score: 100.0% (*Checks completed: 100.0%*)

Write a JavaScript script that updates the text of the `<header>` element to `New Header!!!` when the user clicks on `DIV#update_header`

- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 6-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <br />
    <div id="update_header">Update the header</div>
    <br />
    <footer>
      Holberton School - 2017
    </footer>
    <script type="text/javascript" src="6-script.js"></script>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `6-script.js`

[☑ Done!]   [Help]   [QA Review]

## 7. Star wars character                                    `mandatory`

> Score: 100.0% (*Checks completed: 100.0%*)

Write a JavaScript script that fetches the character `name` from this URL: `https://swapi-api.alx-tools.com/api/people/5/?format=json`

- The name must be displayed in the HTML tag `DIV#character`
- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 7-main.html
(7)
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
  </head>
  <body>
    <header>
      Star Wars character
    </header>
    <br />
    <div id="character"></div>
    <br />
    <footer>
      Holberton School - 2017
    </footer>
    <script type="text/javascript" src="7-script.js"></script>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `7-script.js`

[ ☑ Done! ]   [ Help ]   [ QA Review ]

## 8. Star Wars movies                                    **mandatory**

Score: 100.0% (*Checks completed: 100.0%*)

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

- All movie titles must be list in the HTML tag `UL#list_movies`
- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 8-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
  </head>
  <body>
    <header>
      Star Wars movies
    </header>
    <br />
    <ul id="list_movies">
    </ul>
    <br />
    <footer>
      Holberton School - 2017
    </footer>
    <script type="text/javascript" src="8-script.js"></script>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `8-script.js`

[☑ Done!]   [Help]   [QA Review]

## 9. Say Hello!

[mandatory]

> Score: 100.0% (*Checks completed: 100.0%*)

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 tag `DIV#hello`.

- The translation of "hello" must be displayed in the HTML tag `DIV#hello`
- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API
- Your script must work when it is imported from the `<head>` tag

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 9-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
    <script type="text/javascript" src="9-script.js"></script>
  </head>
  <body>
    <header>
      Say Hello!
    </header>
    <br />
    <div id="hello"></div>
    <br />
    <footer>
      Holberton School - 2017
    </footer>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `9-script.js`

☑ Done!      Help      QA Review

## 10. No jQuery - document loaded                    **#advanced**

Score: 100.0% (*Checks completed: 100.0%*)

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
- You can't use the jQuery API
- Note: Your script must be imported from the `<head>` tag, not at the end of the HTML

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 100-main.html
(/)
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script type="text/javascript" src="100-script.js"></script>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <footer>
      Holberton School - 2017
    </footer>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `100-script.js`

☑ Done!    Help    QA Review

## 11. List, add, remove                    #advanced

Score: 100.0% (*Checks completed: 100.0%*)

Write a JavaScript script that adds, removes and clears `LI` elements from a list when the user clicks:

- The new element must be: `<li>Item</li>`
- The new element must be added to `UL.my_list`
- When the user clicks on `DIV#add_item` : a new element is added to the list
- When the user clicks on `DIV#remove_item` : the last element is removed from the list
- When the user clicks on `DIV#clear_list` : all elements of the list are removed
- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API
- You script must work when it imported from the `HEAD` tag

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 101-main.html
(/)
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
    <script type="text/javascript" src="101-script.js"></script>
  </head>
  <body>
    <header>
      First HTML page
    </header>
    <br />
    <div id="add_item">Add item</div>
    <div id="remove_item">Remove item</div>
    <div id="clear_list">Clear list</div>
    <br />
    <ul class="my_list">
      <li>Item</li>
    </ul>
    <footer>
      Holberton School - 2017
    </footer>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `101-script.js`

☑ Done!   Help   QA Review

## 12. Say hello to everybody!                                    #advanced

Score: 100.0% (*Checks completed: 100.0%*)

Write a JavaScript script that fetches and prints how to say "Hello" depending on the language

- You should use this API service: `https://www.fourtonfish.com/hellosalut/hello/`
- The language code will be the value entered in the tag `INPUT#language_code` (ex: `es`, `fr`, `en` etc.)
- The translation must be fetched when the user clicks on `INPUT#btn_translate`
- The translation of "Hello" must be displayed in the HTML tag `DIV#hello`
- You can't use `document.querySelector` to select the HTML tag
- You must use the JQuery API

- You script must work when imported from the `<head>` tag

**(/)**

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 102-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
    <script type="text/javascript" src="102-script.js"></script>
  </head>
  <body>
    <header>
      Say Hello
    </header>
    <br />
    <input id="language_code" type="text" placeholder="Language code"/>
    <input id="btn_translate" type="button" value="Translate"/>
    <br />
    <div id="hello"></div>
    <br />
    <footer>
      Holberton School - 2017
    </footer>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `102-script.js`

[ ☑ Done! ]    [ Help ]    [ QA Review ]

## 13. And press ENTER                                         `#advanced`

Score: 100.0% (*Checks completed: 100.0%*)

Write a JavaScript script that fetches and prints how to say "Hello" depending on the language

- You should use this API service: `https://www.fourtonfish.com/hellosalut/hello/`
- The language code will be the value entered in the tag `INPUT#language_code` (ex: `es`, `fr`, `en` etc.)
- The translation must be fetched when the user clicks on `INPUT#btn_translate` OR presses `ENTER` when the focus is on `INPUT#language_code`
- The translation of "Hello" must be displayed in the HTML tag `DIV#hello`

- You can't use `document.querySelector` to select the HTML tag

**(/)** ● You must use the JQuery API

- You script must work when imported from the `<head>` tag

Please test with this HTML file in your browser:

```
guillaume@ubuntu:~/0x15$ cat 103-main.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Holberton School</title>
    <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>
    <script type="text/javascript" src="103-script.js"></script>
  </head>
  <body>
    <header>
      Say Hello
    </header>
    <br />
    <input id="language_code" type="text" placeholder="Language code"/>
    <input id="btn_translate" type="button" value="Translate"/>
    <br />
    <div id="hello"></div>
    <br />
    <footer>
      Holberton School - 2017
    </footer>
  </body>
</html>
guillaume@ubuntu:~/0x15$
```

**Repo:**

- GitHub repository: `alx-higher_level_programming`
- Directory: `0x15-javascript-web_jquery`
- File: `103-script.js`

Done?    Help    QA Review

Ready for a new manual review

🔍