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0x01. Developer tools

📁 Specializations - Web Stack programming — Front-end

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📅 Ongoing project - started 12-08-2020, must end by 12-10-2020 (in 1 day) - you're done with 0% of tasks.

✓ Checker will be released at 12-09-2020 12:00 AM

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

☑ QA review fully automated.

🔗 audits chrome devtools



In this project, you will analyze this website [https://dev-tools.hbtn.info/\(rltoken/Lwnv01iLnS6OuT1vIDCclg\)](https://dev-tools.hbtn.info/(rltoken/Lwnv01iLnS6OuT1vIDCclg)).

Resources

Read or watch:

- Chrome DevTools | Tools for Web Developers | Google Developers ([/rltoken/82GJvQ5DlwfcYRNuHWOGFA](#))
- Introduction | Down and Dirty with Chrome Developer Tools ([/rltoken/vNCYSZZ_A7JZ6F3Nv91KxA](#))
- Firefox Developer Tools | MDN ([/rltoken/zZQbDVkJ3zeeAM-3zTf8Dw](#))
- Dev Tips - Developer Tips by Umar Hansa ([/rltoken/soaR8Gq7OL4w48rZe2bakQ](#))
- Get Started With Viewing And Changing CSS | Tools for Web Developers ([/rltoken/RA0zyadwvl6OmoVYMDp-3Q](#))



- Keeping it simple with the JavaScript console - LogRocket Blog (/rltoken/ePHot6ZwOgXG6Cynq3E_-g)
- Inspect Network Activity - Chrome DevTools 101 (/rltoken/hv47k9yKKsyoG2AEL73Ajw)

Learning Objectives

At the end of this project, you are expected to be able to explain to anyone (/rltoken/nzkhF5PuySCUEel0bUOw-Q), **without the help of Google**:

General

- What Developer Tools in your browser are
- How to open the Developer Tools on Chrome, Firefox, Safari, and Edge.
- How to use the elements tab to edit HTML and CSS
- How to audit a page according to the tips suggested by Lighthouse
- How to create and run snippets on a page
- How to get information about files and server configurations
- How to block requests
- How to know how much JavaScript or CSS is used on a page
- How to detect 404 issues
- How to move elements on a webpage

Requirements

General

- A `README.md` file, at the root of the folder of the project, is mandatory
- Use the newest version of Google Chrome browser (78.0.3904.70 or later).
- Screenshots can be taken via the OS, not necessary via the DevTools. These screenshots are used to see how and where you are doing/playing with the DevTools.

Tasks



0. Responsive device mandatory

Go to <https://dev-tools.hbtn.info/>

Take a screenshot of the website using the device toolbar Choose iPhone X and show the size in your screenshot (selected device or size in pixel of the rendering)

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 0-responsive_device.png

☐ Done?[Help](#)

1. Change the background color mandatory

Go to <https://dev-tools.hbtn.info/>

Change the background-color of the body to use #4233bd Take a screenshot of the PORTFOLIO section

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 1-change_bg_color.png

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2. Force element state mandatory

Go to <https://dev-tools.hbtn.info/>

Force the hover state of the "cake" block in the section Portfolio Take a screenshot of it

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 2-pathways_menu.png

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3. Copy all the styles of the button mandatory

Go to <https://dev-tools.hbtn.info/>

Select the Download me! and copy all the CSS styling that is applied on this button.

Your answer file must contain all CSS styling one per line like this example:

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```
$ head -2 3-button_styles
border-radius: 1px;
color: #FF00FF;
$
```

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 3-button_styles

4. Change button styles mandatory

Go to <https://dev-tools.hbtn.info/>

- All primary buttons (btn-primary) should have the #0080ee color as a background color
- All outlined buttons light (btn-outline-light) should have #0020aa for the text color
- Screenshot all buttons that changed and merge it to one image

☐ Done?

Help

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 4-new_buttons.png

5. Remove part of the website mandatory

Go to <https://dev-tools.hbtn.info/>

Remove the div of the "cake" box in the section Portfolio

Take a screenshot of it

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Help

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 5-deleted_elements.png

6. Where is it coming from? mandatory

Go to <https://dev-tools.hbtn.info/>

- On the right panel, click on the Computed tab
- Then, select the h2 with the text ABOUT

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- Search for `margin-bottom`

Which file is coming from that declaration?

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `6-declaration_file`

7. How many listeners mandatory

Go to <https://dev-tools.hbtn.info/>

How many times click events are referenced in JavaScript files?

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `7-number_of_listeners`

☐ Done?

8. What is the HSL code mandatory

Go to <https://dev-tools.hbtn.info/>

Select the primary button "Send"

What is the equivalent value of the hexadecimal background-color, in HSL?

(format of your answer should be: `hsl(<VALUES>);` , example: `hsl(241, 23%, 24%);` following by a new line)

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `8-hsl`

☐ Done?

9. The max-width of the container mandatory

Go to <https://dev-tools.hbtn.info/>

What is the `max-width` for the first `.container` in the section "About"? (your browser width must be between 1250px and 1440px and with a zoom at 100%)

(format of your answer should be `max-width: <VALUE>;` , example: `max-width: 670px`)

Repo:

☐ Done?

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 9-max_width

10. Moving around mandatory

Go to <https://dev-tools.hbtn.info/>

Switch the section "About" and "Portfolio"

Take a screenshot of it

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 10-moved_around.png

☐ Done?

Help

11. Coverage mandatory

Go to <https://dev-tools.hbtn.info/>

How many bytes that `freelancer.css` covers?

Answer file must contain the value in Byte (example: 6144 for 6KB)

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 11-coverage

☐ Done?

Help

12. Emulate the print version of the webpage mandatory

Go to <https://dev-tools.hbtn.info/>

Take a screenshot of the homepage, only emulation the CSS print version of the website.

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 12-print_version.png

☐ Done?

Help



13. Using the console mandatory

Go to <https://dev-tools.hbtn.info/>

Select the Avatar image in the header and type `$0` in the console. Enter.

What does it return?

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `13-logo_dollar0`

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14. Write code in the console mandatory

Go to <https://dev-tools.hbtn.info/>

Write in the console `console.log(document.title)`, what is returned?

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `14-doc_title`

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15. Holberton web framework mandatory

Go to <https://dev-tools.hbtn.info/>

Which front-end framework could we guess this page is using?

In your answer file only put the letter of the multiple choice answer from below:

- A. React JS
- B. Material Design
- C. Bootstrap
- D. Angular JS

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `15-hbtn_framework`

☐ Done?[Help](#)

16. Homepage weight mandatory

Go to <https://dev-tools.hbtn.info/>



What is the total weight of the page (with all the elements)?

Take a screenshot of it

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 16-weight.png

☐ Done?

17. Number of requests mandatory

Go to <https://dev-tools.hbtn.info/>

What is the number of requests done when accessing this page?

Take a screenshot of it

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 17-requests.png

☐ Done?

18. Number of CSS files mandatory

Go to <https://dev-tools.hbtn.info/>

How many CSS resources are loaded on this page?

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 18-css_loaded

☐ Done?

19. Number of images mandatory

Go to <https://dev-tools.hbtn.info/>

How many image resources are loaded on this page?

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 19-images_loaded

☐ Done?

20. Favicon image type mandatory

Go to <https://dev-tools.hbtn.info/>

What is the `type` value of the favicon image?

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `20-favicon_type`

☐ Done?

21. Font library mandatory

Go to <https://dev-tools.hbtn.info/>

Holberton School website uses a font library for their icons, which one is it?

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `21-hbtn_font_lib`

☐ Done?

22. XHR calls mandatory

Go to <https://dev-tools.hbtn.info/>

What is the name of the resource that generates 1 XHR calls?

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `22-xhr_calls`

☐ Done?

23. Audits panel mandatory

Go to <https://dev-tools.hbtn.info/>

What is the notation for `Performance` (for desktop mode and no throttling - also called Lighthouse)?

Take a screenshot of it

Repo:

- GitHub repository: `holbertonschool-web_front_end`

☐ Done?

- Directory: 0x01-developer_tools
- File: 23-performance_audit.png

24. Static assets mandatory

Go to <https://dev-tools.hbtn.info/>

How many static assets need a better cache policy?

Take a screenshot of it

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 24-static_assets_audit.png

☐ Done?[Help](#)

25. Accessibility mandatory

Go to <https://dev-tools.hbtn.info/>

When you run an accessibility audit, what is the contrast issue?

In your answer file only put the letter of the multiple choice answer from below:

- A. Image elements do not have [alt] attributes
- B. Links do not have a discernible name
- C. Background and foreground colors do not have a sufficient contrast ratio.

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 25-contrast_issue

☐ Done?[Help](#)

26. No alt mandatory

Go to <https://dev-tools.hbtn.info/>

Which classes are on the images that have no alt attribute?

Your answer file must contains all classes, example: `.my_class.my_second` if 2 classes

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 26-no_alt

☐ Done?[Help](#)

27. Best practices mandatory

Go to <https://dev-tools.hbtn.info/>

Which attribute is missing on all the links with the target `_blank` ?

In your answer file only put the letter of the multiple choice answer from below:

- A. `rel="noopener"`
- B. `rel="noreferrer"`
- C. A and B
- D. `rel = "nofollow"`

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `27-missing_attr`

☐ Done?

Help

28. SEO mandatory

Go to <https://dev-tools.hbtn.info/>

Which link has text that is not descriptive enough?

Take a screenshot of it

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `28-unclear_desc.png`

☐ Done?

Help

29. Sources mandatory

Go to <https://dev-tools.hbtn.info/>

The `sources` panel allow you to edit files, add breakpoints to analyse your JavaScript code and create snippets.

- Create a new snippet called `allcolors.js`
- Copy-paste the code on that page (`/rltoken/ccMzjlTVdz6w6lxBfJdEIQ`)
- Run the code
- Take a screenshot of the result in your console

Repo:

- GitHub repository: `holbertonschool-web_front_end`
- Directory: `0x01-developer_tools`
- File: `29-how_many_colors.png`

☐ Done?

Help



30. Block CSS files mandatory

Go to <https://dev-tools.hbtn.info/>

Block all CSS requests

Take a screenshot of it

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 30-no_css.png

☐ Done?[Help](#)

31. Application panel mandatory

Go to <https://dev-tools.hbtn.info/>

The application panel gives you access to the storage (cookies, sessions, cache...) and some other options as Services Workers and more recently, notifications.

What is the only key present in the session storage for this page?

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 31-session_storage_key

☐ Done?[Help](#)

32. Service workers mandatory

Go to <https://dev-tools.hbtn.info/>

Does this page have any service workers? Yes or No

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 32-service_workers

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33. Security mandatory

Go to <https://dev-tools.hbtn.info/>

The security panel allows you to make sure HTTPS is properly implemented on a webpage.

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Which organization issued the SSL certificate for this page?

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 33-ssl_cert

34. Expiration date mandatory

Go to <https://dev-tools.hbtn.info/>

When does the SSL certificate expire?

Take a screenshot of it

Repo:

- GitHub repository: holbertonschool-web_front_end
- Directory: 0x01-developer_tools
- File: 34-ssl_expiration.png

☐ Done?

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