

# BO - HUB

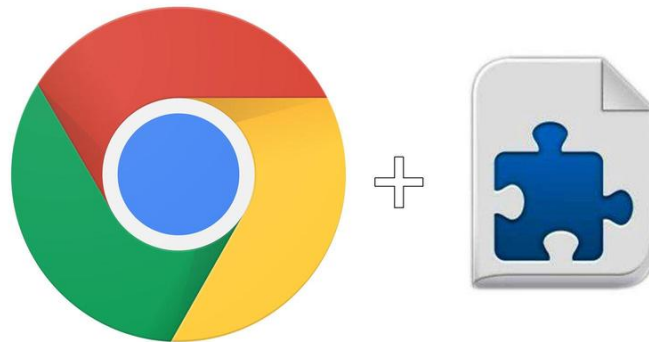
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B-INN-000

## Pimp My Website

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Introduction to chrome extensions



# Pimp My Website

binary name: —  
repository name: Create your own and invite the assistant  
language: javascript/HTML/CSS  
compilation: —  
build tool: —



- The totality of your source files, except all useless files (binary, temp files, obj files,...), must be included in your delivery.
- All the bonus files (including a potential specific Makefile) should be in a directory named *bonus*.
- Error messages have to be written on the error output, and the program should then exit with the 84 error code (0 if there is no error).



## INTRODUCTION

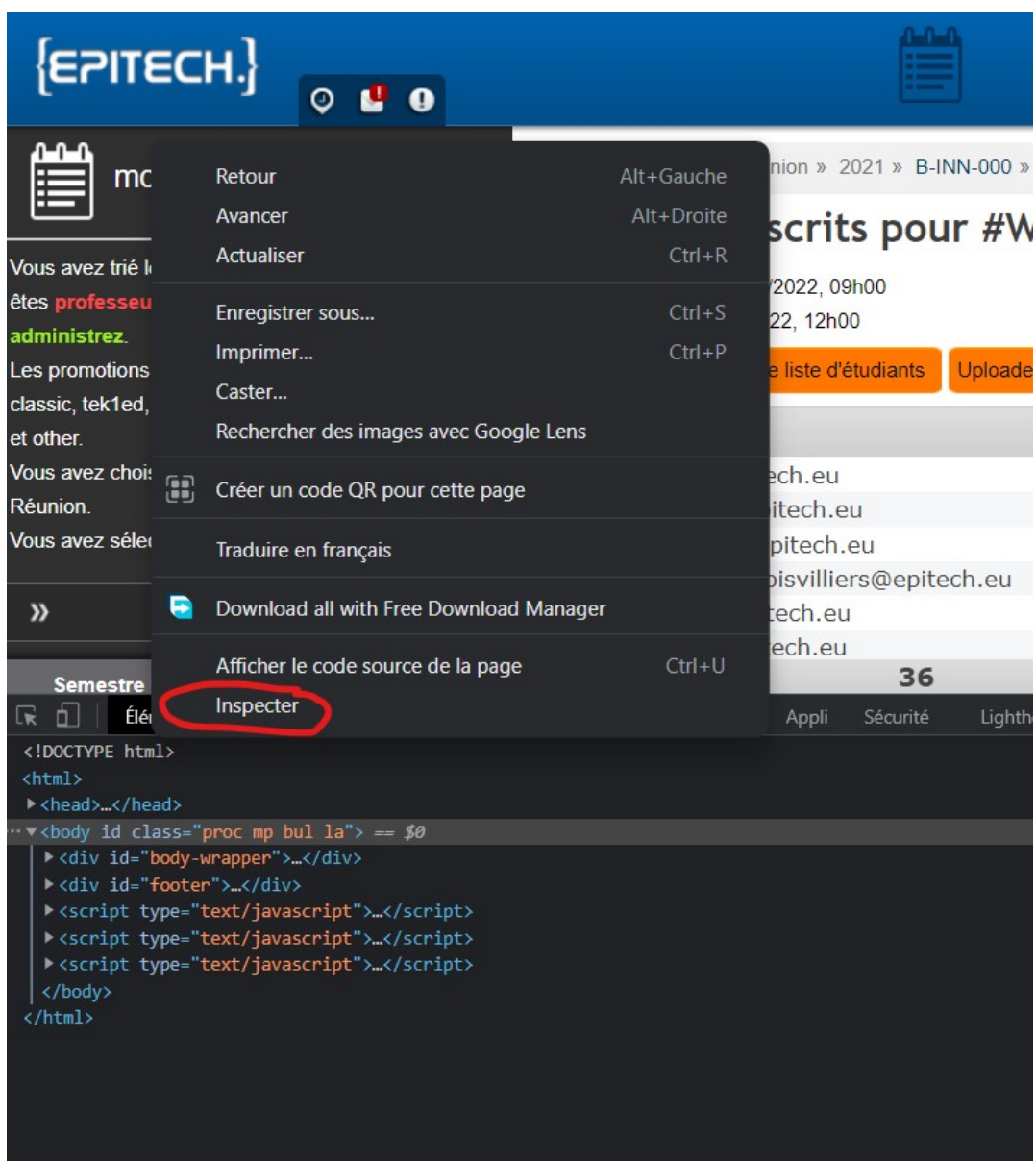
Sometimes when you browse your favorite website, some things are not working as you want. It can be a bug or the webpage you are currently viewing is not at your convenience. The problem can be about the UI/UX, dark mode, features, accessibility, ...

What you can do as a budding developer : modify the website for yourself

That's the point of this workshop

On modern browser you can live edit the web page as it is fully rendered as HTML/CSS et javascript

## EDIT WEBSITE



You can edit website page with the inspect developer tools



To access the inspect tool : *right click on page, ctrl+shift+i, F12* for developer console

So you can access the source code and then :

- Edit CSS code
- Inspect and edit HTML code
- Edit, access, and run javascript code

## CUSTOMIZE YOUR INTRANET

For this workshop, you're going to customize your favorite website :  
<https://intra.epitech.eu>

## TURN INTO DARK MODE

**{EPITECH.}**

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**Activités**

**#WORKSHOP : Modélisation fusion 360 - Part 1 / B0 - Hub**  
08/02/2022, 10h00 — 08/02/2022, 13h00  
Salle : Tim + Grace  
Token à valider [Rentrer son Token](#)

**Kick-Off - Unit and Malloc / B4 - Unix Prog. - Memory**  
08/02/2022, 17h00 — 08/02/2022, 17h30  
Salle : Margaret  
Token à valider [Rentrer son Token](#)

**Kick-Off - Unit / B4 - Mathematics**  
08/02/2022, 17h30 — 08/02/2022, 18h00  
Salle : Margaret  
Token à valider [Rentrer son Token](#)

**[FR][NTS][Talk] Duniter : une introduction à la blockchain / B0 - Hub**  
08/02/2022, 21h30 — 08/02/2022, 23h00  
Salle : Amphi  
Token à valider [Rentrer son Token](#)

**[FR][NTS][Talk] OpenApi Generator / B0 - Hub**  
09/02/2022, 22h00 — 09/02/2022, 23h00  
Salle : Amphi

**Marvin**  
Semestre 4

Mes modules  
Mes notes  
Mon planning  
Trombi  
Stage  
Documents

**Alertes**

**Vous avez 61 crédits, ce nombre est inférieur aux 85 crédits normaux.**  
Vous pouvez acquérir 66 crédits avec vos modules, ce qui vous permet d'atteindre votre objectif pour ce semestre de 120 crédits.  
Le module B-YEP-410 est obligatoire, vous devez vous y inscrire.  
Que faire face à ces alertes ?



Customize the website according to your own preferences

## EXTENSION CHROME

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You should experiment that the change applied to the website was not saved after you refresh this one. One way to make the change permanent is to make a chrome plugin. The chrome plugin contains scripts that will be executed after the entire page was loaded each time you refresh

## MAKE CHROME EXTENSION

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### CREATE MANIFEST

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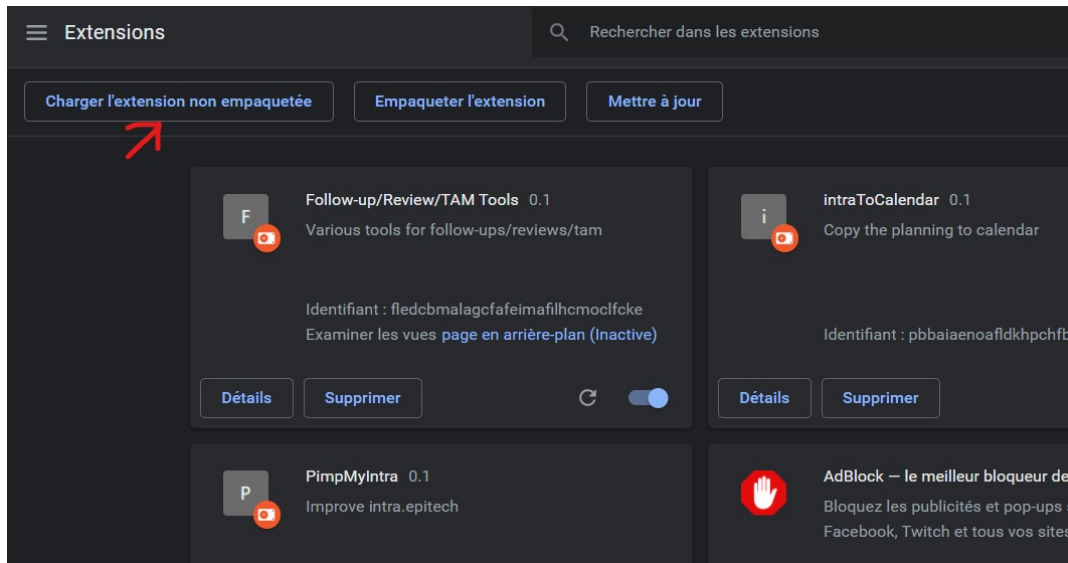
Create a folder that will contain your project  
To create an extension you need at least a manifest.json file to describe it

```
{  
  "name": "your plugin name",  
  "version": "1.0",  
  "manifest_version": 2  
}
```

### LOAD THE EXTENSION TO CHROME

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Goto url *chrome://extensions*



Do not forget to activate it !

## DO THE CSS TRICK

Create a css file to save your style properties and add it to the manifest

```
{
  "name": "your plugin name",
  "version": "0.1",
  "manifest_version": 2,
  "content_scripts": [
    {
      "matches": ["https://intra.epitech.eu/*"],
      "css": ["style.css"]
    }
  ],
  "permissions": ["activeTab"]
}
```



Read the documentation to complete your manifest as icon property and more...  
<https://developer.chrome.com/docs/extensions/mv3/manifest/>



Each time you modify a file, you have to refresh the extension in the extension manager



To be sure to override the css property use the keyword *!important* at the end of each line

## MANIPULATE THE DOM

The HTML DOM is a standard object model and programming interface for HTML  
With the DOM you can use javascript to manipulate the HTML of the page  
To easily manipulate the DOM you can use jQuery which is a very useful javascript library  
For example to hide the breadcrumb, type in your console

```
$("#breadcrumb").hide()
```

You can use javascript vanilla *querySelector* instead

```
document.querySelector("#breadcrumb").style.display = 'none'
```

Download jQuery on official website and add it to your manifest

Take a while to experiment jQuery or querySelector DOM manipulation in the developer console



Official jQuery documentation : <https://api.jquery.com/>  
Cheatsheet : <https://cheatography.com/mottie/cheat-sheets/jquery-selectors/>



official vanilla documentation :  
<https://developer.mozilla.org/fr/docs/Web/API/Document/querySelector>

## LET'S TRY SOMETHING

### PLANNING, AUTOSELECT SEMESTER

In a new javascript file write a function that allow you to enable or disable semesters to show on your planning

According to this array representing the semester

```
let arraySemester = [true, true, false, false, false, true, false];  
arraySemester[0] = false; //disable the semester 0  
showSemester(arraySemester);
```



Use javascript *setTimeout* function to wait until the semester filter menu appears



this function should be executed each time you access `http://intra.epitech.eu/planning/` only



Use `window.location.href` to be sure you are at the good endpoint



Do not forget to add the script in your manifest



use `"run_at": "document_end"` in your `content_script`

## OTHER IDEAS TO CUSTOMIZE THE WEBSITE

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### MARK AVAILABLE

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Create a script that show if you are registered to all sessions of an activity

			Day 10 AM
			Day 09 - <a href="#">registered</a>
			Day 08
			Day 07 PM



Test it in the developer console before

### REGISTERED ACTIVITIES

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Create a script that show how many activity you are registered or not on the planning



registered activity : 16, not registered activity : 3

	Lundi 7/2	Mardi 8/2	Mercredi 9/2	Jeudi 10/2
08:00				
09:00	09:00 – 12:00 B0 - Hub » #WORKSHOP : Introduction to Linux Kernel développement (Tech2, Tech3, Pré-msc only) Dennis + Ada (14 / 15)	09:00 – 10:00 B0 - Hub » #WORKSHOP : Use your shell like a pro 10:00 – 13:00 B0 - Hub » #WORKSHOP : La fresque du climat - Emilie LINKWANG Ada (8 / 14)	09:00 – 10:00 B0 - English » Alpha Workshop 1 Margaret (14 / 15) 10:00 – 11:00 B0 - English » Beta Workshop 1 Margaret (15 / 15)	09:00 – 10:00 B0 - Hub » #WORKSHOP : Use your shell like a pro 09:30 – 12:00 B3 - Internship » Soutenance de stage Marissa (17)
10:00				



Test it in the developer console before



As the planning is generated by javascript after than page is loaded, you can not access it by the DOM just after the page loaded.  
You should delay your script for a few seconds.

## MUTATIONOBSERVER (ADVANCED)

*SetTimeout* is no a correct way to do it

You need to observe the planning html container to know when the activities are effectively loaded

As the planning is generated by javascript after than page is loaded, you can not access it by the DOM

Use MutationObserver to detect when the planning is ready



<https://developer.mozilla.org/fr/docs/Web/API/MutationObserver>

## SWITCH THE TIME-ZONE CHALLENGE (BONUS)

Find a way to switch the timezone if and only if it is the wrong timezone