



Intro to Javascript and the DOM

INFO 6150
Fernando Augusto López Plascencia



In this lesson:

- Exploring Javascript in the browser
- Practicing DOM manipulation



Exploring Javascript

- **Run it in the browser!**
- **Interacts with the web page through the DOM (Document Object Model)**
 - **A model created when the page loads**
 - **HTML elements are represented by nodes**



Javascript and the DOM

Created by HideMaru
from Noun Project

Open the web page you've been working on. Ensure it has an `<h1>` tag.

- Edit your `script.js` file, adding:

```
const header = document.querySelector("h1");
```

```
header.textContent = "Dynamic content!";
```

- Save the file.
- Reload the web page in your browser.



What happened?

- `document` is a global object; represents the page
- `querySelector` grabs the node we want
- `textContent` represents the, er, text content of the node (the element); we can modify it



Time for some live practice!

- `window.alert` and `window.prompt`
- Constants and variables
- Data types
- Some operators and comparators
- The “if” control statement



Challenge time!

Put the above in practice:

- **Create a page for a product of your choice.**
- **The page must ask for a user's age. If the user is underage, the page should display a message telling them to not enter the page.**
 - **Research how to use `Number.parseInt()` to convert a string to a number.**
- **Make sure to describe the product and add images.**
 - **Research how to use the `` tag.**
- **Add colors to the text and background.**



GitHub

- **Git is a versioning system**
 - Allows control over versions of a project
 - Improves team collaboration
 - Never again save a “project-final-final-REAL-05.doc”
- **GitHub is a provider for Git**
 - The most popular
 - Free accounts
 - Owned by Microsoft (so, you know, stable)



Git concepts

- **Repository (or repo):** used to store a project
- **Branches:** separate, coexisting “copies” of a project
 - Main branch: the project “original”
 - Create branches to work on a feature
- **Commits:** make changes to branches
 - Use them to “save” your work
 - Never commit directly to your main branch
- **Pull requests:** requests to update the main branch with the contents of another branch
 - Review process



Follow the tutorial:

- Create your own free GitHub account here: <https://github.com/>
- Follow this tutorial to create a repository, a branch, a commit, and a pull request: <https://docs.github.com/en/get-started/quickstart/hello-world>



Homework for today

- **All of today's work, in a repository that you own.**
 - **No other person must have collaborated in this repository.**
 - **Send the link with your repository.**

Created by HideMaru
from Noun Project