

Score: \_\_\_\_/10

The purpose of this lab is to give you experience writing a website with JavaScript that interacts with the DOM and listens for events.

## Specifications

Use PhpStorm to create a simple web page capable of performing conversions between different units of measurement.

1. Clone the assignment repository to your local machine.
2. Open PhpStorm and navigate to the cloned repository folder.
3. Create two files: an HTML file and a JavaScript file.
  - a. JavaScript and CSS files (CSS is optional) should be in their own directories.
4. In the HTML file, create a simple layout with two input fields: one for Fahrenheit and one for Celsius.
5. Write JavaScript to handle temperature conversions between Fahrenheit and Celsius.
6. Extend the page to handle data measurement conversions:
  - a. Add one input field and two dropdown (select) elements for the user to choose their current and desired units of measurement (e.g., kilobytes to gigabytes).
  - b. The conversion result should be displayed immediately as the user types a number, without requiring a button or form submission.

## Constraints

- The page must support multiple conversions without requiring a page refresh.
- Use JavaScript to dynamically change the style of at least one HTML element during normal use.
- Display all conversion results on the web page; use the console only for debugging.
- Implement JavaScript as modules.

## Submission

The submission for this assignment is the commit ID you want graded. Please submit the commit ID on Canvas.

## Tips

- The details of this lab are left open for you to design your solution creatively.
- Formulas:
  - $C = \frac{5}{9} \times (F - 32)$
  - $F = \frac{9}{5}C + 32$