

ICS2O: Additional Projects

The fundamental concept of computer science is to pass instructions to the computer to perform a variety of tasks. As computers do not yet speak fluent human, this is usually done through the use of a coding language. During this course, we have looked at the Hypertext Markup Language(HTML), Cascading Style Sheets(CSS) and JavaScript(JS). In web design, HTML provides website structure, CSS provides aesthetics and JS provides functionality.

Although each language has its own peculiarities, each share some fundamental concepts. In object-oriented programming, a program uses variables to store information, logic and flow structures to process variables and loops to repeat commonly used code. It is also important to document code through the use of comments to pass on intentions to other coders or to remind yourself of the intended purpose of a piece of code.

For this project, your task will be to complete three applications using HTML, CSS and JS.

Quiz

- Should have five to ten questions
- Should display results (number of correct answers)
- Should hide submit button once it is clicked to prevent double submission of answers
- Bonus: Include a cookie that stores answers in case of page refresh

Calendar

- Should highlight the current date
- Should get the current date from the system and update itself accordingly. In other words, do not hard code the calendar to a specific date.
- Bonus: Include a ticking clock on the page.

Password recognition based on a randomly generated code.

- Passcode should reset when the page is refreshed
- Use a loop to generate the passcode
- The webpage should tell the user if their entry is correct or not.
- Bonus: Include a checkbox so that the webpage will only check the code if the checkbox is clicked

All style changes should be done in a separate .css file called 'style.css' and javascript functions should be stored in a .js file called 'utility.js'.