

EE461L HW 5

Frontend Technologies

Task 1: Web Development Fundamentals

HTML, CSS, and JavaScript are the three foundational technologies that drive the web. HTML is what we use to structure a page, CSS is what we use to design it, and JavaScript is the language we use to implement its functionality and behavior. These days, we typically use web frameworks to create web applications, but they are still fundamentally built on HTML, CSS, and JavaScript.

Knowing the basics is helpful when you move on to learning more powerful frameworks, and it also comes in handy when you need to build simpler pages that do not require the full capabilities of a web framework. One significant use case for a static HTML/CSS page is a *personal website*.

With that in mind, for this task you will be:

1. Building a single-page personal website in HTML/CSS (no JavaScript, for now)
2. Deploying it with GitHub Pages¹

Getting Started

1. Closely [follow the instructions for GitHub Pages](#) to create an empty repo on your GitHub account that you can clone to your computer and start building your website in. When you commit changes and push this repo, your website is deployed on the web at the URL: `https://yourgithubusername.github.io`.
2. Once you have cloned your new, empty repo from GitHub, create two files in it:
 - a. `index.html` – your homepage
 - b. `stylesheet.css` – the external stylesheet containing your page's styles
3. Now, build and deploy a personal site meeting the requirements in the following section.

¹ GitHub Pages is a free and popular place to host personal websites for software engineers. It is also used to host the documentation for many many popular open-source projects.

Requirements

Feel free to put whatever content on your personal website you deem appropriate (within reason, of course). It can show off your hobby, highlight your professional experience, or whatever else you feel comfortable with. Just be sure it meets the following requirements:

Requirement	Points
Use a CSS selector to apply style(s) to at least one HTML tag.	0.5
Create at least one class, apply it to at least two elements, and style it.	0.5
Create at least one id, apply it to an element, and style it.	0.5
Use <code><div></code> to create at least two sections of content on the page.	0.5
Use <code><a></code> to link to another website.	0.5
Use a CSS selector to change the color of <code><a></code> when you hover the cursor over it.	0.5
Change at least two box model properties of any tag, class, or id.	0.5
Include an image (something safe for work).	0.5
Correctly use a <code><meta></code> "description" tag to describe your site to search engines .	0.5
Deploy the page to <code>yourgithubusername.github.io</code> using GitHub Pages.	0.5

Note that some of these requirements overlap. Some clever web design will allow you to satisfy multiple requirements at once.

Deliverable

- Submit a link on Canvas to the GitHub repo hosting your site.
 - **Note 1:** If you have already used your GitHub Pages repo for a past project, create your website in a different repo on GitHub and submit a link to that along with a link to your existing GitHub Pages site.
 - **Note 2:** Do not push changes after the deadline (until the assignment is graded). We will consider the date and time of the last commit as the turn-in date.