

# Creating and Publishing a Website using GitHub Pages

## **Introduction:**

GitHub Pages is a free web hosting service provided by GitHub for hosting websites directly from your GitHub repository. In this documentation, we will outline the steps to create and publish a website using HTML, CSS, and JavaScript on GitHub Pages.

## **Prerequisites:**

Before you start, ensure you have the following:

- A GitHub account (<https://github.com>)
- Basic knowledge of HTML, CSS, and JavaScript
- A code editor (e.g., Visual Studio Code)
- Git installed on your computer (<https://git-scm.com/>)

## **Creating the Website:**

**HTML:** Create the structure of your website using HTML. Create an `index.html` file for your homepage and additional HTML files for other pages if needed. Add your content, links, and other elements.

**CSS:** Create a separate CSS file (e.g., `styles.css`) to style your website. Link this CSS file in your HTML using the `<link>` tag.

**JavaScript:** If your website requires interactivity, create JavaScript files (e.g., `script.js`). Include them in your HTML using the `<script>` tag.

## **Setting Up GitHub Repository:**

- a. Log in to your GitHub account.
- b. Click the "+" icon in the top right corner and select "New repository."
- c. Fill in the repository name (e.g., "my-website") and choose a visibility option (public or private).
- d. Initialize the repository with a README file (optional).
- e. Click "Create repository."
- f. Upload all of your required files to the repository.

**Publishing the Website:**

- a. Upload your HTML, CSS, and JavaScript files to the GitHub repository you created.
- b. Commit your changes to the repository. You can use Git commands or a Git GUI like GitHub Desktop.
- c. In the repository, go to the "Settings" tab.
- d. Scroll down to the "GitHub Pages" section.
- e. In the "Source" dropdown, select the branch where your website files are located (usually "main" or "master").
- f. Click "Save."
- g. GitHub Pages will provide you with a URL (e.g., <https://yourusername.github.io/repositoryname>). Your website is now live!

**Conclusion:**

You've successfully created and published a website using HTML, CSS, and JavaScript on GitHub Pages. Your website is accessible to the world, and you can easily update it by pushing changes to your GitHub repository. Share your website link with others and continue to improve and expand your web presence.