

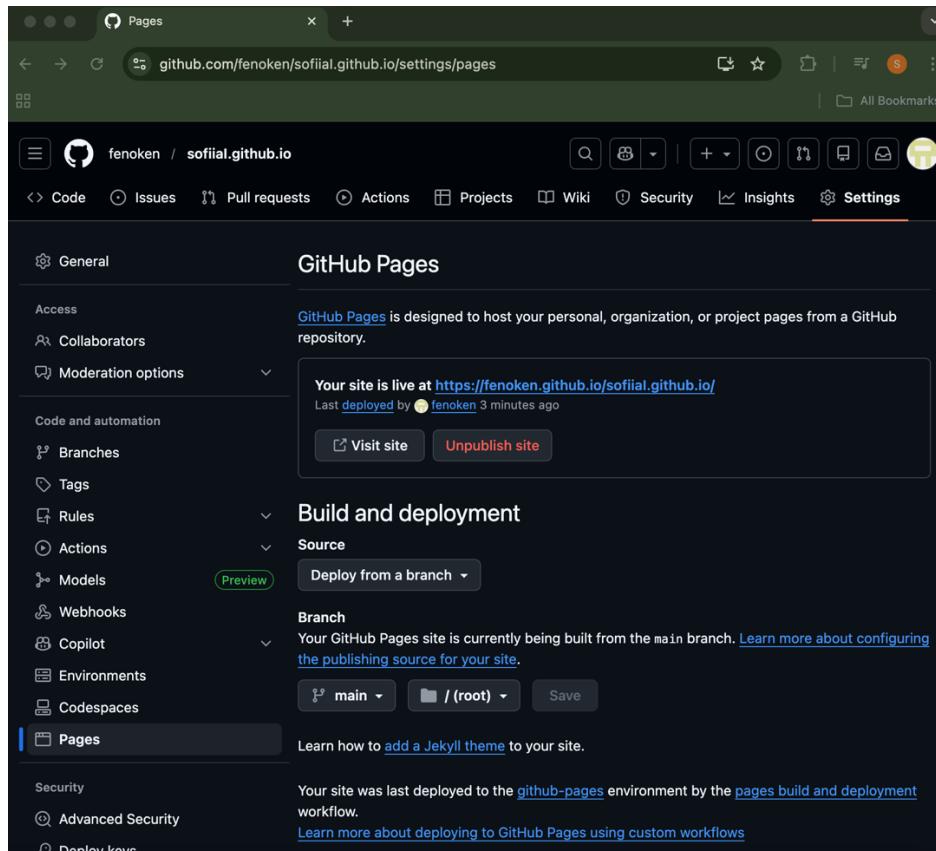
# Template Week 7 – Host your website on GitHub

Student number: 579864

Domain name (URL) of your website on GitHub:

<https://fenoken.github.io/sofial.github.io/>

Relevant screenshots + motivation:



The screenshot shows the GitHub Pages settings page for the repository `fenoken/sofial.github.io`. The main content area displays the message: "Your site is live at <https://fenoken.github.io/sofial.github.io/>". Below this, it says "Last deployed by [fenoken](#) 3 minutes ago". There are two buttons: "Visit site" and "Unpublish site".

On the left, a sidebar lists various GitHub features: General, Access, Collaborators, Moderation options, Code and automation, Tags, Rules, Actions, Models, Webhooks, Copilot, Environments, Codespaces, and Pages. The "Pages" tab is currently selected.

The "Build and deployment" section shows the "Source" is set to "Deploy from a branch" and the "Branch" is set to "main". There are dropdown menus for "main" and "/ (root)".

At the bottom, there is a note: "Learn how to [add a Jekyll theme](#) to your site." and "Your site was last deployed to the [github-pages](#) environment by the [pages build and deployment](#) workflow." There is also a link: "Learn more about deploying to GitHub Pages using custom workflows".



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## Hobby: Art



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# Template Week 1 – Bits & Bytes

Student number: 579864

### Assignment 1.1: Bits & Bytes intro

What are Bits & Bytes?

A single place or symbol in a binary number is called a bit (a binary digit). Each bit can either be 0 or 1. Byte is a sequens of 8 bits.

What is a nibble?

Half of a byte or a sequens of 4 bits.

What relationship does a nibble have with a hexadecimal value?

Each symbol in a hexadecimal value is one nibble.

Why is it wise to display binary data as hexadecimal values?

Every four bits in binary correspond to one symbol in hexadecimal. Therefore, a byte can be easily represented with two hexadecimal symbols. A 16-bit number can be represented with four hex symbols, a 32-bit number with eight hex symbols, and so on. Thus hexadecimal values take less space for same amount of data and are easier to process for human eye.

What kind of relationship does a byte have with a hexadecimal value?

Every byte corresponds to two symbols in hexadecimal.

An IPv4 subnet is 32-bit, show with a calculation why this is the case.

255.255.0.0

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