

Lesson 01: Publishing a Website with GitHub Pages

Start



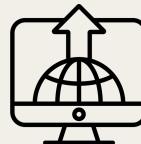
Learning Objectives



Create a public GitHub repository for a website



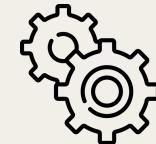
Create and edit an index.html file



Publish a website using GitHub Pages



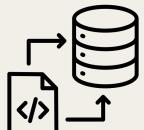
Update website content and redeploy it



Explain, in simple terms, how GitHub Pages works

 These objectives describe what you will be able to do, not what you need to memorize.

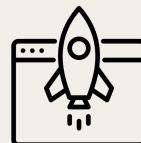
Deliverables



✓ A public GitHub repository



✓ A published website accessible through a GitHub Pages URL



✓ An index.html file with customized content



✓ At least one committed update to the website



 Your website will be public and accessible online.





AI Learning Support for This Lesson

In this lesson, the AI tutor is here to support you.

You are not expected to know everything yet — we have prepared a guided prompt that you can use to help you:

- Take your first steps with GitHub
- Create your first HTML “Hello World” page
- Navigate GitHub and find the right sections and settings
- Successfully publish your first website for free using GitHub Pages

💡 Use the AI as a guide, not as a shortcut.

You are always encouraged to read, understand, and ask follow-up questions: **Lesson 01 Prompt**



GitHub: Free code repository for your static website



GitHub is an online platform to:

- Store code
- Track changes
- Collaborate

Used by developers, designers, and companies



What Is a Repository?

- A repository (repo) is a project folder.

It contains:

- Files (HTML, CSS, JS)
- Images
- History of changes



Why We Use GitHub Pages:

- Free hosting
- No servers to configure

Perfect for:

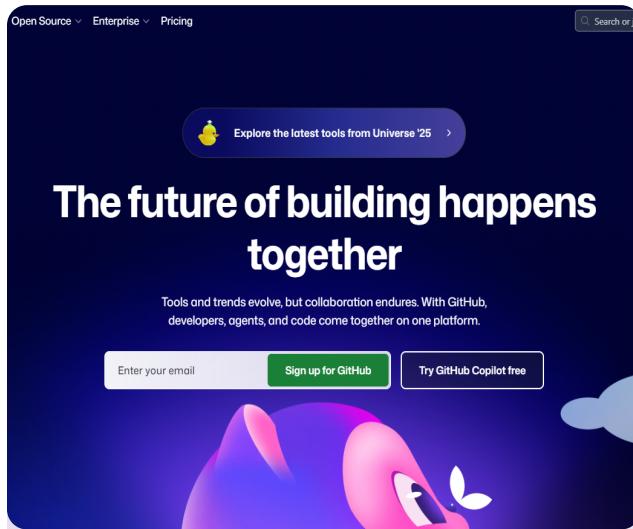
- Portfolios
- Prototypes
- AI-generated websites



3R



Creating a GitHub Account



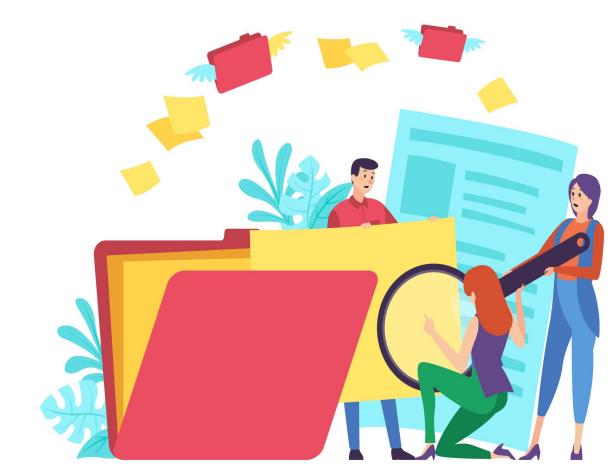
Your GitHub Identity

1. Go to github.com
2. Sign up with email
3. Choose username
(important!)

A screenshot of the GitHub 'New repository' creation form. The form is divided into two sections: 'General' and 'Configuration'. In the 'General' section, the 'Owner' is set to 'EstebanGameDevelopment' and the 'Repository name' is 'my-first-website'. The 'Description' field is empty. In the 'Configuration' section, the 'Choose visibility' is set to 'Public'. The 'Add README' checkbox is checked. The 'Add .gitignore' and 'Add license' checkboxes are unchecked. A 'Create repository' button is at the bottom.

Creating a new repository

1. Click New repository
2. Repository name: my-first-website
3. Set to Public
4. ✓ Check Add README file



README = Project Description

README explains:

- What the project is
- What it does

Written in plain text / Markdown



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Activating GitHub Pages

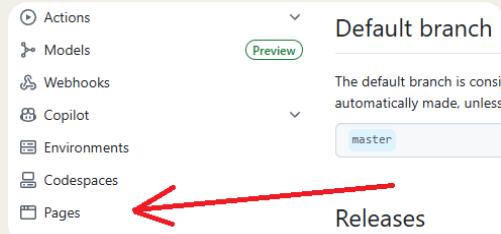
Turning Code into a Website

GitHub Pages takes:

- Files in your repository

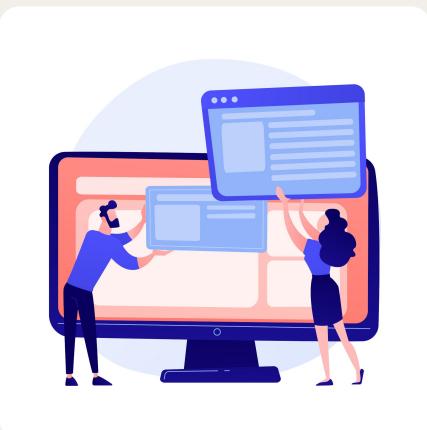
And publishes them as:

- A real website



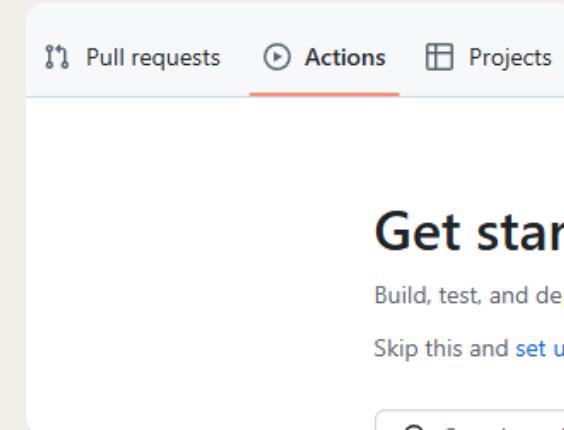
GitHub Actions works automatically

- GitHub runs an automated process
- This process:
 - Builds your website
 - Publishes it online
- Name to remember:  **GitHub Actions**



Enable GitHub Pages

- 1) Go to Settings
- 2) Open Pages
- 3) Source:
 - Branch: main
 - Folder: /root
- 4) Save



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The Website Entry Point

What Is index.html?

The Website Entry Point



First Website File

Create index.html



Simplest Possible Website

Hello World HTML



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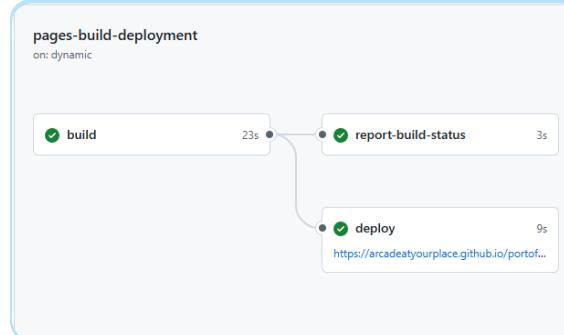
Publishing via Github Actions



Github Actions do the automatic publishing process

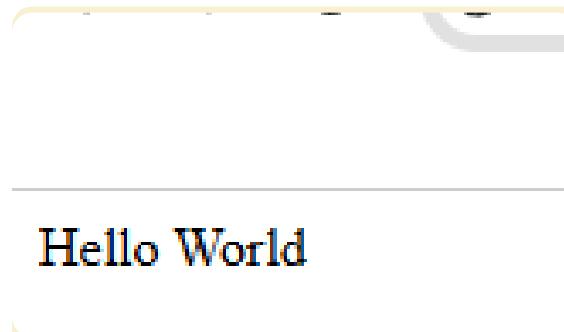
GitHub Actions:

- Detects changes
- Rebuilds website
- Publishes automatically



Select the tab and watch the process

1. Go to Actions
2. Yellow ⏳ = working
3. Green ✓ = published



Your Website is Live:

1. Go to Settings → Pages
2. Click the URL

Hello World

Your website is a real website:

1. Public
2. Accessible from anywhere
3. Hosted for free.



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Editing Files in the Browser



GitHub Is Also an Editor

1. Open index.html
2. Click Edit
3. Modify content

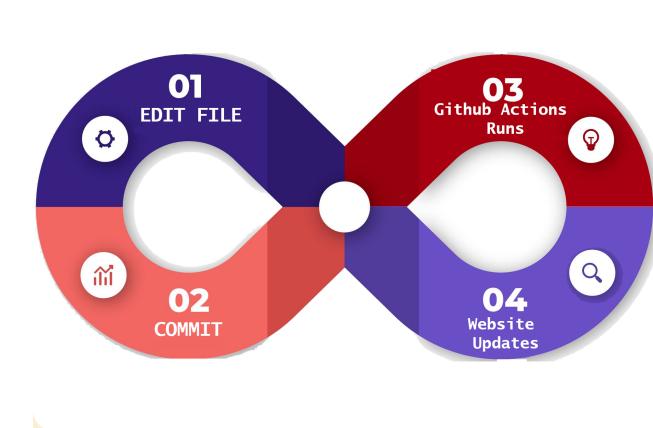
Content



Saving Changes = Commit

A commit:

- Saves changes
- Describes what changed
- Click Commit changes



The Loop

Process:

1. Edit file
2. Commit
3. GitHub Actions runs
4. Website updates



3C



A dark circular button with a white 'X' inside, located in the top right corner of the white box.

X

```
<html>
  <header>My header</header>
  <body>My content for hello world</body>
</html>
```

How GitHub Pages Works

Mental model:

-  GitHub stores it
-  GitHub Actions publishes it
-  GitHub Pages shows it



Knowledge Test Questions



Purpose of GitHub Pages

Question



Website Entry Point

Question



Publishing Workflow

Question



Lesson Deliverable Understanding

Question

Publishing a Website with GitHub Pages





What is the main purpose of GitHub Pages in this course?

To edit HTML files directly
in the browser

To store backups of
website files

To publish repository files
as a public website



Which of the following best describes a successful completion of Lesson 1?

Creating a private repository with multiple files

Having a public website accessible through a GitHub Pages URL

Writing complex HTML and CSS code



Why is the file named index.html important when using GitHub Pages?

It is the default file GitHub Pages loads as the website homepage

It is required to enable GitHub Actions

It contains special GitHub configuration settings



What happens after you commit changes to a file in a GitHub repository with GitHub Pages enabled?

GitHub Actions automatically builds and publishes the website

You must manually upload the files to a server

The website updates immediately without any process

Help us to improve

With your feedback we will keep improving for you to get the best results



Which part of this lesson was the most confusing or unclear for you, and why?

Write your answer here.

Send

Did you feel the pace of the lesson was appropriate for your level of experience?

Write your answer here.

Send

What change would most improve this lesson for future students?

Write your answer here.

Send

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