

What is a Lab Wiki?

- A digital space to organize lab knowledge
- Think of it as a lab manual, FAQ, and resource hub
- Accessible via the web

How to contribute?




- Lab wikis are edited and maintained by group members
- Sessions when everyone get together to collaborate on the wiki are commonly called **hackathons**



But most importantly, WHY have a lab wiki?

- **Unify all relevant information in one place**
- **Share protocols and experimental workflows:** Ensure everyone uses the same up-to-date methods/code
- **Document scripts, tools, and software setups:** Ensure all analyses are reproducible
- **Capture best practices and troubleshooting tips:** Save time by avoiding repeated mistakes
- **Document decisions:** Keep track of why certain choices were made and keep things consistent

Key advantages:

-  Avoids inefficient re-discovering what was already known
-  Preserves expertise when someone leaves the lab
-  Speeds up learning for new members

Creating a Lab Wiki with GitHub Pages

GitHub



- Developer platform that allows developers to create, store, manage, and share their code.
- It uses Git, a distributed version control system that tracks versions of files.
- It lets you work with others without messing up each other's changes.

GitHub Pages

- A way to publish websites from GitHub
- Free, easy to update, version-controlled
- Can be used to host a Lab Wiki

What we need to know

- Basic Git knowledge
- Basic markdown
- Navigating GitHub Projects

How it works

- The wiki lives in a GitHub repository
- Each page is a Markdown file (.md)
- GitHub Pages + a theme = clean, searchable site

thisismytestgit.github.io

main ▾

1 Branch


0 Tags

Go to file

t






+

<> Code ▾

 **thisismytestgit** Update _config.yml ✓

49d8231 · 1 hour ago

🕒 15 Commits

 _config.yml	Update _config.yml	1 hour ago
 about.md	Create about.md	1 hour ago
 index.md	Update index.md	1 hour ago
 new-members-guide.md	Create new-members-guide.md	1 hour ago
 publications.md	Create publications.md	1 hour ago

Quick example

Creating an index markdown file

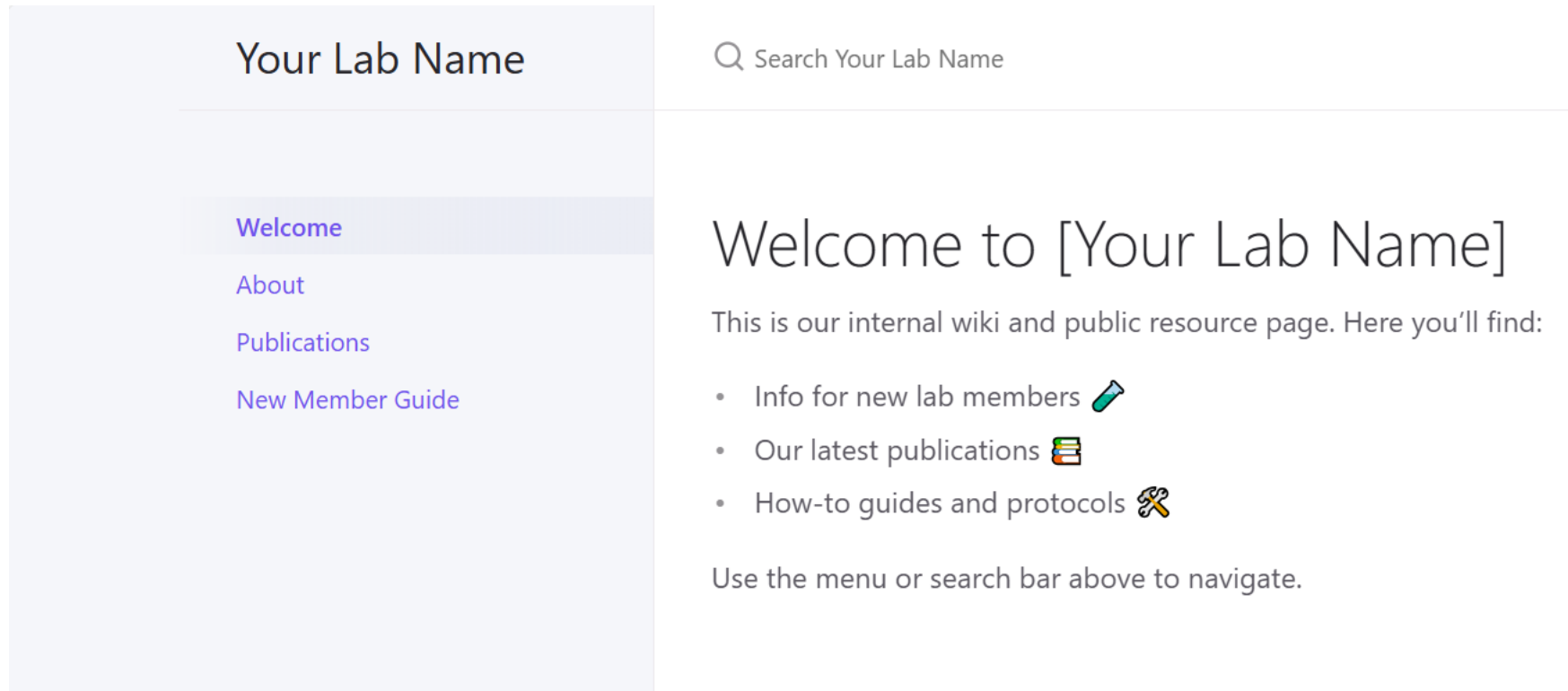
EditPreview

Spaces2Soft wrap

```
1  ---
2  title: Welcome
3  nav_order: 1
4  ---
5
6  # Welcome to [Your Lab Name].
7
8  This is our internal wiki and public resource page. Here you'll find:
9
10 - Info for new lab members 🖋️
11 - Our latest publications 📖
12 - How-to guides and protocols 🔧
13
14 Use the menu or search bar above to navigate.
15
```






Quick example

<https://thisismytestgit.github.io/>



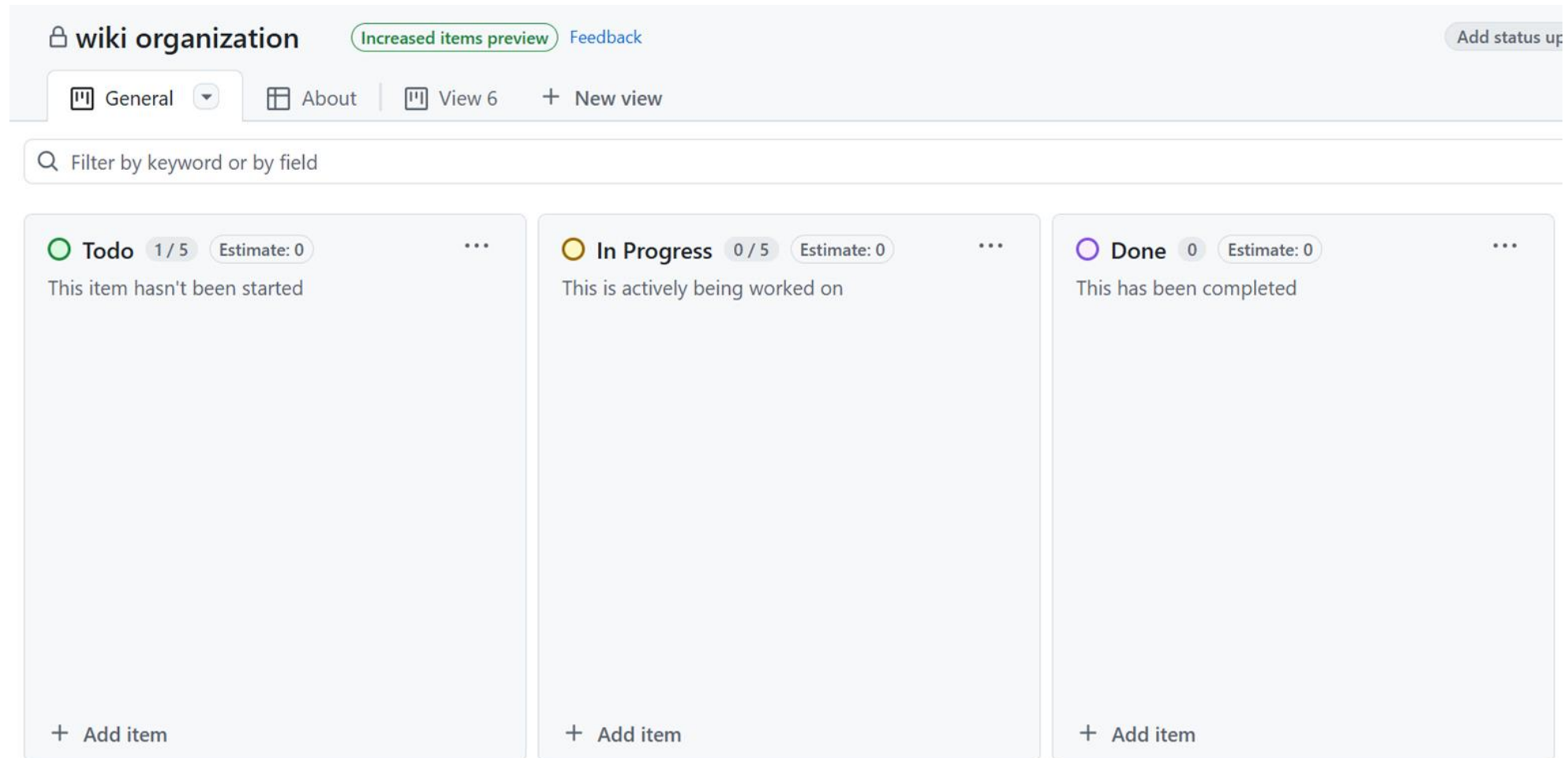
Collaborative Editing

Why it matters:

-  Collective Brainpower – Everyone contributes what they know
-  Keeps everyone on the same page
-  Prevents duplicated effort
-  Tracks who's doing what
-  Helps everyone see what's happening in real time

Using GitHub Projects to organize the tasks

- A tool to manage and track tasks (issues) directly inside GitHub
- Tasks move through columns, e.g.: "To do" → "In progress" → "Done"
- Helps organize work within a group of contributors



Proposing changes to the wiki

1. Open an Issue: "HPC how to page"

The screenshot shows a GitHub interface with a modal open for creating a new issue. The modal title is "Create new issue in thisismytestgit/thisismytestgit.github.io". The "Add a title" field contains "HPC how to page". The "Add a description" field contains "Let's add a page about how to use Osiris and useful tips". The modal has a "Create" button and a "Cancel" button. The background shows the "wiki organization" page with a "Backlog" tab and a "Todo" item.

Wiki organization

Backlog

Filter by keyword or by field

Todo 0 / 5 Estimate: 0

This item hasn't been started

Create new issue in thisismytestgit/thisismytestgit.github.io

Add a title *

HPC how to page

Add a description

Write Preview

H B I @

Let's add a page about how to use Osiris and useful tips

☐ Create more Cancel Create ^ ↗

You can use Control + Space to add an item

Proposing changes to the wiki

- 2. Assign the issue to yourself or a colleague
- 3. Add to the project board ("To Do" or "In Progress")

HPC how to page #2

Open

thisismytestgit/thisismytestgit.github.io

Public

thisismytestgit opened 1 minute ago

Let's add a page about how to use Osiris and useful tips

Create sub-issue

thisismytestgit moved this to Todo in wiki organization 1 minute ago

thisismytestgit added this to wiki organization 1 minute ago

Add a comment

Edit

Assignees

No one - [Assign yourself](#)

Labels

No labels

Projects

wiki organization

Status

Todo

Priority Choose an option

Size Choose an option

Development

Create a branch for this issue or link a pull request.

Proposing changes to the wiki

4. Create a branch and work on it

HPC how to page #2

Open

thisismytestgit/thisismytestgit.github.io

Public

thisismytestgit opened 1 minute ago

Let's add a page about how to use Osiris and useful tips

Create sub-issue

thisismytestgit moved this to Todo in wiki organization 1 minute ago

thisismytestgit added this to wiki organization 1 minute ago

Add a comment

Edit

Assignees

No one - [Assign yourself](#)

Labels

No labels

Projects

wiki organization

Status

Todo

Priority

Choose an option

Size

Choose an option

Development

[Create a branch](#) for this issue or link a pull request.

Proposing changes to the wiki

Todo

0 / 5

Estimate: 0

This item hasn't been started

+ Add item

In Progress

1 / 5

Estimate: 0

This is actively being worked on

thisismytestgit.github.io #2

HPC how to page

+ Add item

Done

0

Estimate: 0

This has been completed

+ Add item

Proposing changes to the wiki

- 5. Open a Pull Request to propose your changes to the Wiki.
- 6. Request reviewers (e.g., someone familiar with the topic)
- 7. Reviewers can comment, approve, or suggest edits before merging

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff comparisons here](#).

base: main

←

compare: 2-hpc-how-to-page

✓ Able to merge. These branches can be automatically merged.

Add a title

Create high-performance-computing

Add a description

WritePreview

H B I i≡ <> 🔗 1≡ :≡ ≡≡ 📎 @ 🗨️ ↩️ 📌

I have created a new markdown file with information about the IARC cluster.

Reviewers

No reviews

⚙️

Assignees

No one—[assign yourself](#)

⚙️

Labels

None yet

⚙️

Projects

wiki organization

⚙️

Proposing changes to the wiki

- 8. Merge after review
- 9. Move task to "Done"



No conflicts with base branch
Merging can be performed automatically.

Merge pull request

You can also merge this with the command line. [View command line instructions.](#)

Todo

0 / 5

Estimate: 0

...

This item hasn't been started

+ Add item

In Progress

0 / 5

Estimate: 0

...

This is actively being worked on

+ Add item

Done

2

Estimate: 0

...

This has been completed

thisismytestgit.github.io #2

HPC how to page

thisismytestgit.github.io #3

Create high-performance-computing

+ Add item

<https://thisismytestgit.github.io/>

Your Lab Name

[Welcome](#)

[About](#)

[Publications](#)

[New Member Guide](#)

[High Performance Computing](#)

This site uses [Just the Docs](#), a documentation theme for Jekyll.

High Performance Computing

At IARC, HPC (High Performance Computing), HTC (High Throughput Computing) or simply cluster refer to the same system. It is a set of powerful computers (servers) that interact together to run intensive calculations or tasks, usually called "jobs".

Named Osiris, IARC HPC/HTC/cluster is the computing engine "behind the scene" for the SIT platform.

Check the [Scientific IT documentation](#) for more information.



Step 1: Request Access

To get access to the HPC cluster:

- Contact: [Your IT contact or lab manager]
- Fill out the request form here: [Insert link if applicable]
- Wait for confirmation and credentials



Step 2: Connect via SSH






Use the terminal to connect:

```
ssh your-username@hpc.cluster.edu
```


Google Sites

Website builder from Google

Example: [Google Sites Wiki](#)

	GitHub Page	Google site
 Ease of Use	basic Git and Markdown knowledge	beginner-friendly (no coding)
 Collaboration	Pull requests, reviews, version control	Real-time editing (like Google Docs)
 Version Control	Full Git history	No built-in versioning
 Hosting Code & Data	Yes — it's built for that	No
 Access Control	Not private in the free version (only Git repo)	Can be private

Keeping the wiki updated



Anyone can open a GitHub Issue when:

- They detect something is missing
- Instructions are unclear or outdated
- A tool or workflow has changed



Schedule Wiki Hackathons every few months to:

- Review open issues
- Add missing pages or sections
- Assign one “Wiki watcher” each time — just to help organize updates (not do all the work!).