

PY410 / 505
Computational Physics 1

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GitHub education

GitHub Classroom

Your course assignments on GitHub

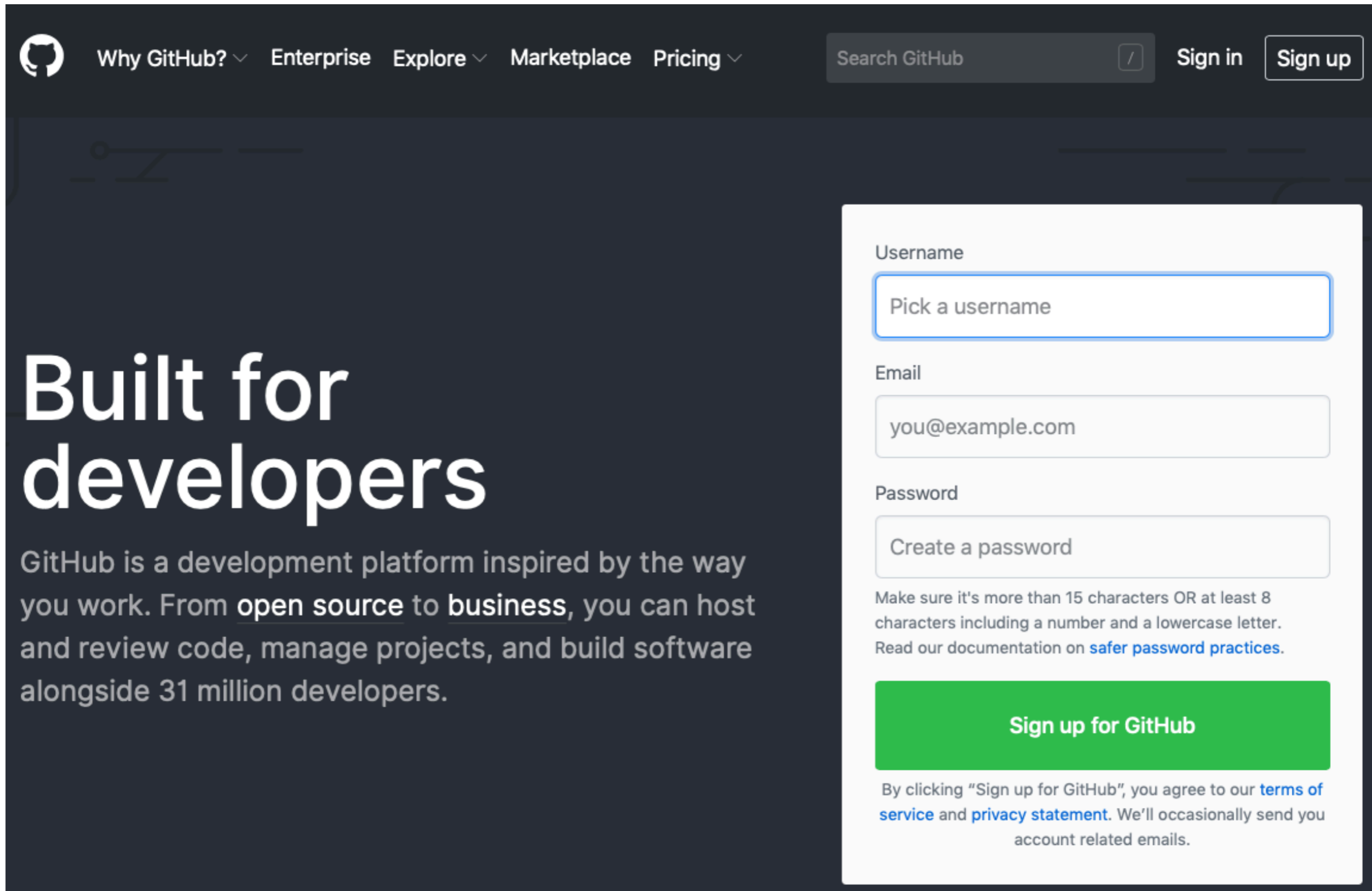


- We will be using GitHub classroom for our assignments
- GitHub education: <https://education.github.com>
- GitHub classroom: <https://classroom.github.com/classrooms>

- First thing today: make a GitHub account if you don't have one: <https://github.com>
- Then make a GitHub education account: <https://education.github.com/students>

GitHub

- Go to <https://github.com>
- Create account:



The image shows a screenshot of the GitHub website's sign-up page. The page has a dark blue header with the GitHub logo and navigation links: 'Why GitHub?', 'Enterprise', 'Explore', 'Marketplace', and 'Pricing'. A search bar and 'Sign in' and 'Sign up' buttons are also present. The main content area features the text 'Built for developers' and a description of GitHub as a development platform. On the right side, there is a white sign-up form with fields for 'Username', 'Email', and 'Password'. Below the password field, there is a note about password requirements and a link to 'safer password practices'. A green 'Sign up for GitHub' button is at the bottom of the form, followed by a disclaimer about terms of service and privacy statement.

Why GitHub? ▾ Enterprise Explore ▾ Marketplace Pricing ▾ Search GitHub / Sign in Sign up

Built for developers

GitHub is a development platform inspired by the way you work. From [open source](#) to [business](#), you can host and review code, manage projects, and build software alongside 31 million developers.

Username
Pick a username

Email
you@example.com

Password
Create a password

Make sure it's more than 15 characters OR at least 8 characters including a number and a lowercase letter. Read our documentation on [safer password practices](#).

[Sign up for GitHub](#)

By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy statement](#). We'll occasionally send you account related emails.

GitHub education

- Will need to join the classroom and link your GitHub account to your UB email
 - <https://classroom.github.com/classrooms/46534332-compphysfall2022>
- Then you click on the assignment link.
 - Example: Dummy assignment is here:
https://classroom.github.com/a/B4_2x-45



Join the classroom:
CompPhysFall2022

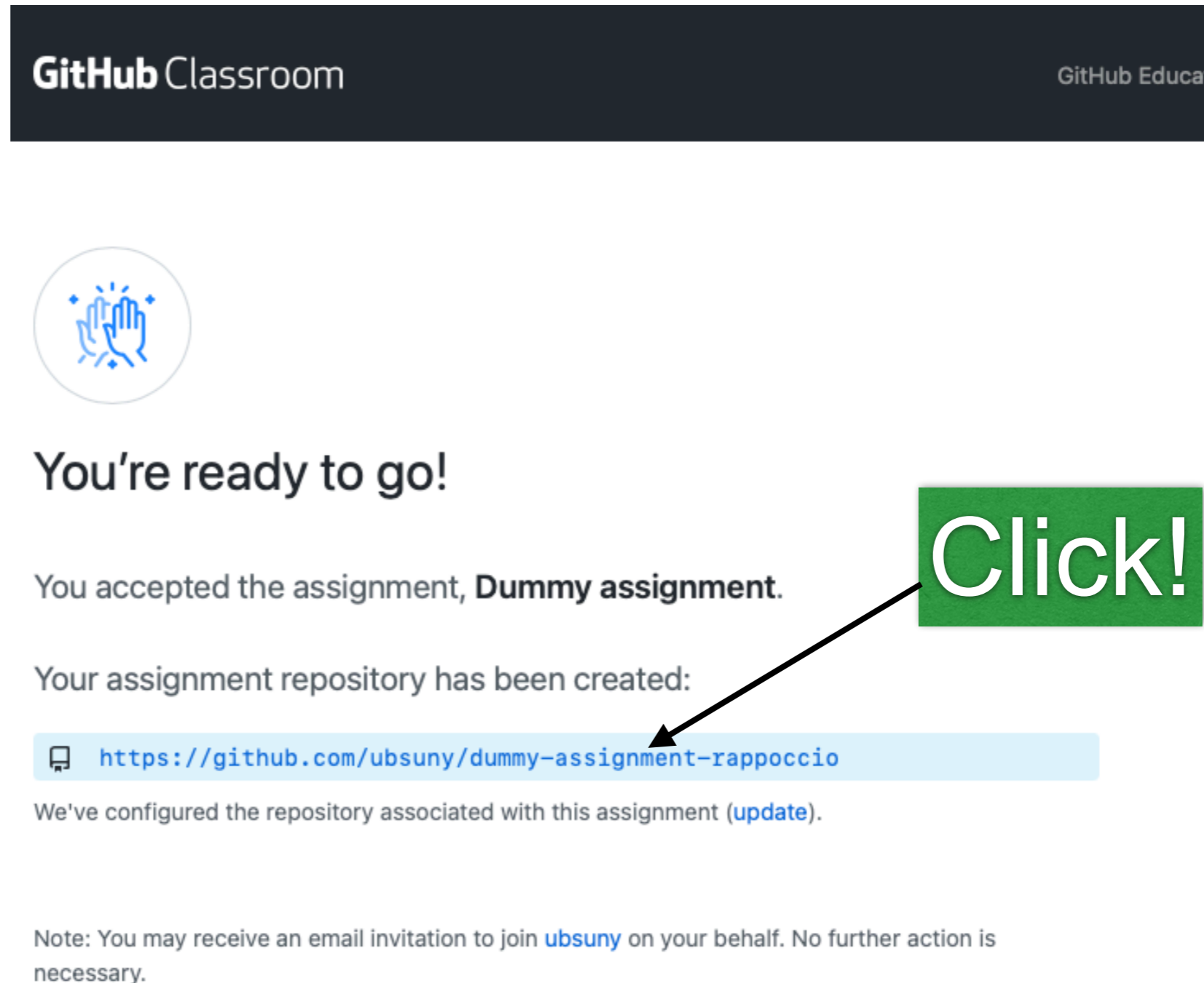
Find your username
and associate your
github account!

To join the GitHub Classroom for this course, please select yourself from the list below to associate your GitHub account with your school's identifier (i.e., your name, ID, or email).

Can't find your name? [Skip to the next step →](#)

GitHub education

- Should get something like this:



The screenshot shows the GitHub Classroom interface. At the top, there is a dark header with the text "GitHub Classroom" on the left and "GitHub Educa" on the right. Below the header is a circular icon of two hands clapping. The main content area contains the following text:

You're ready to go!

You accepted the assignment, **Dummy assignment**.

Your assignment repository has been created:

<https://github.com/ubsuny/dummy-assignment-rappoccio>

We've configured the repository associated with this assignment ([update](#)).

Note: You may receive an email invitation to join [ubsuny](#) on your behalf. No further action is necessary.

A green box with the text "Click!" and an arrow pointing to the repository URL is overlaid on the screenshot.

GitHub education

GitHub navigation bar with search and repository information.

Search or jump to... Pull requests Issues Marketplace Explore

ubsuny / dummy-assignment-rappoccio Private Edit Pins Unwatch 2 Fork 0 Star 0

Code Issues Pull requests Actions Projects Security Insights Settings

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH `git@github.com:ubsuny/dummy-assignment-rappoccio.git`

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# dummy-assignment-rappoccio" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:ubsuny/dummy-assignment-rappoccio.git
git push -u origin main
```

Click and copy to terminal!

...or push an existing repository from the command line

```
git remote add origin git@github.com:ubsuny/dummy-assignment-rappoccio.git
git branch -M main
git push -u origin main
```

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

GitHub education

The screenshot shows a GitHub repository page for 'ubsuny / dummy-assignment-rappoccio'. The repository is private and has 1 branch (main) and 0 tags. The commit history shows a single commit by 'rappoccio' with the message 'first commit' and hash '2de4091'. The file list includes 'README.md'. The repository description states it was created by GitHub Classroom. The right sidebar shows 0 stars, 2 watchers, and 0 forks. There are no releases or packages published.

Search or jump to... Pull requests Issues Marketplace Explore

ubsuny / dummy-assignment-rappoccio Private Edit Pins Unwatch 2 Fork 0 Star 0

Code Issues Pull requests Actions Projects Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

rappoccio first commit 2de4091 now 1 commit

README.md first commit now

README.md

dummy-assignment-rappoccio

About dummy-assignment-rappoccio created by GitHub Classroom

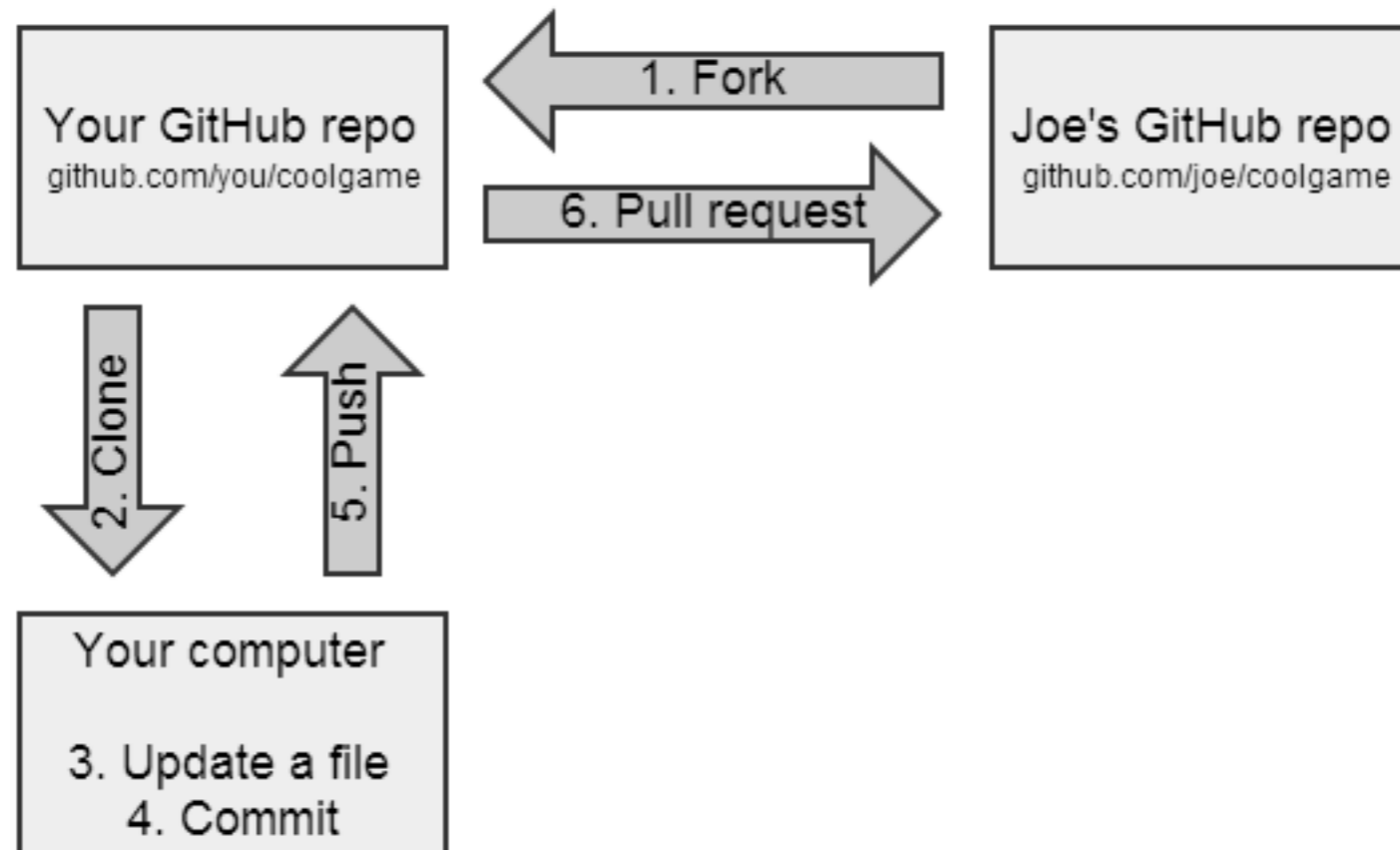
- Readme
- 0 stars
- 2 watching
- 0 forks

Releases No releases published [Create a new release](#)

Packages No packages published [Publish your first package](#)

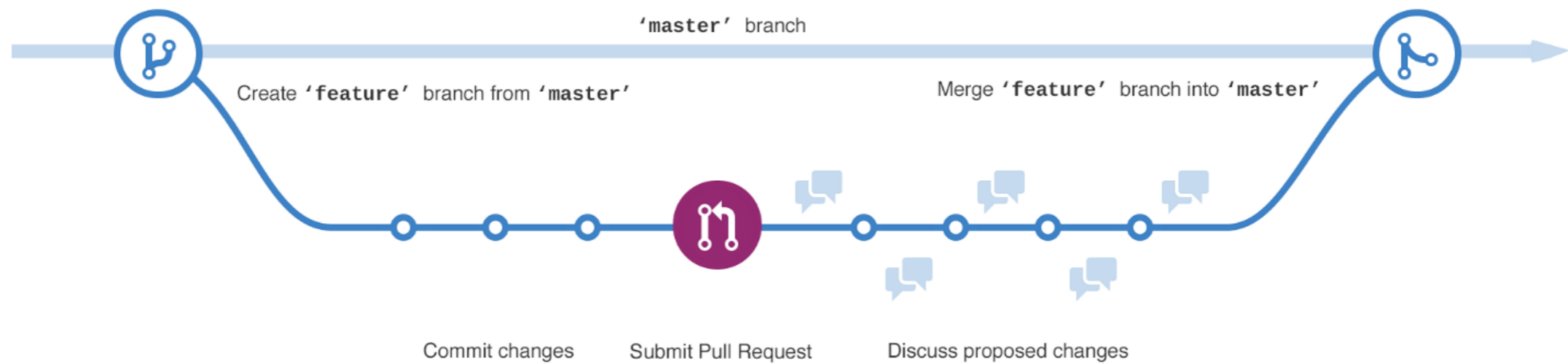
GitHub Workflow

- GitHub workflow:



GitHub Workflow

- Doing developments:



Assignments

- Won't need to make your own branch for assignments (that's already done for you)
- Go to your current directory
 - Here's mine:

```
cd dummy-assignment-rappoccio/
```

- Edit code from the jupyter example into “matplotlib_example.py”:

```
import matplotlib.pyplot as plt
import array
x = array.array('f', [1,2,3])
y = array.array('f', [1,4,9])
plt.plot(x,y)
plt.show
```

- Then commit (up next!)

Assignments

- Now we check status:

```
saruman:dummy-assignment-rappoccio rappoccio$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  matplotlib_example.py

nothing added to commit but untracked files present (use "git add" to track)
```

- Then:

- Add the file.
- Commit to your local git (with a message).
- Push to your GitHub area for the assignment.

```
git add matplotlib_example.py
git commit -m"Dummy assignment complete"
git push origin main
```

- Looks like:

```
saruman:dummy-assignment-rappoccio rappoccio$ git push origin main
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 393 bytes | 393.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:ubsuny/dummy-assignment-rappoccio.git
 2de4091..e487a2b  main -> main
```

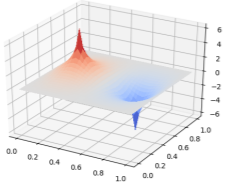
Done!

Assignments

- Now do your writeup:

Assignment 1

Problem 1:
Here, I simulated the electrostatic potential for a dipole in a grounded box. I put a positive charge at $N/4$ and a negative charge at $3N/4$.



- Submit to UBLearns:

ASSIGNMENT SUBMISSION

Text Submission

Write Submission

Attach Files

Browse My Computer

Browse Course

Attached files

File Name

Link Title

example_hw.pdf

example_hw.pdf

Do not attach

ADD COMMENTS

Comments

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).

HW Repository: <https://github.com/ubsuny/compphy2-assignment-1-rappoccio>

Character count: 76

Code in GitHub

When finished, make sure to click **Submit**.

Optionally, click **Save as Draft** to save changes and continue working later, or click **Cancel** to quit without saving changes. You are previewing the assignment - your submission will not be saved.

Cancel Save Draft Submit