PY410 / 505
Computational Physics 1

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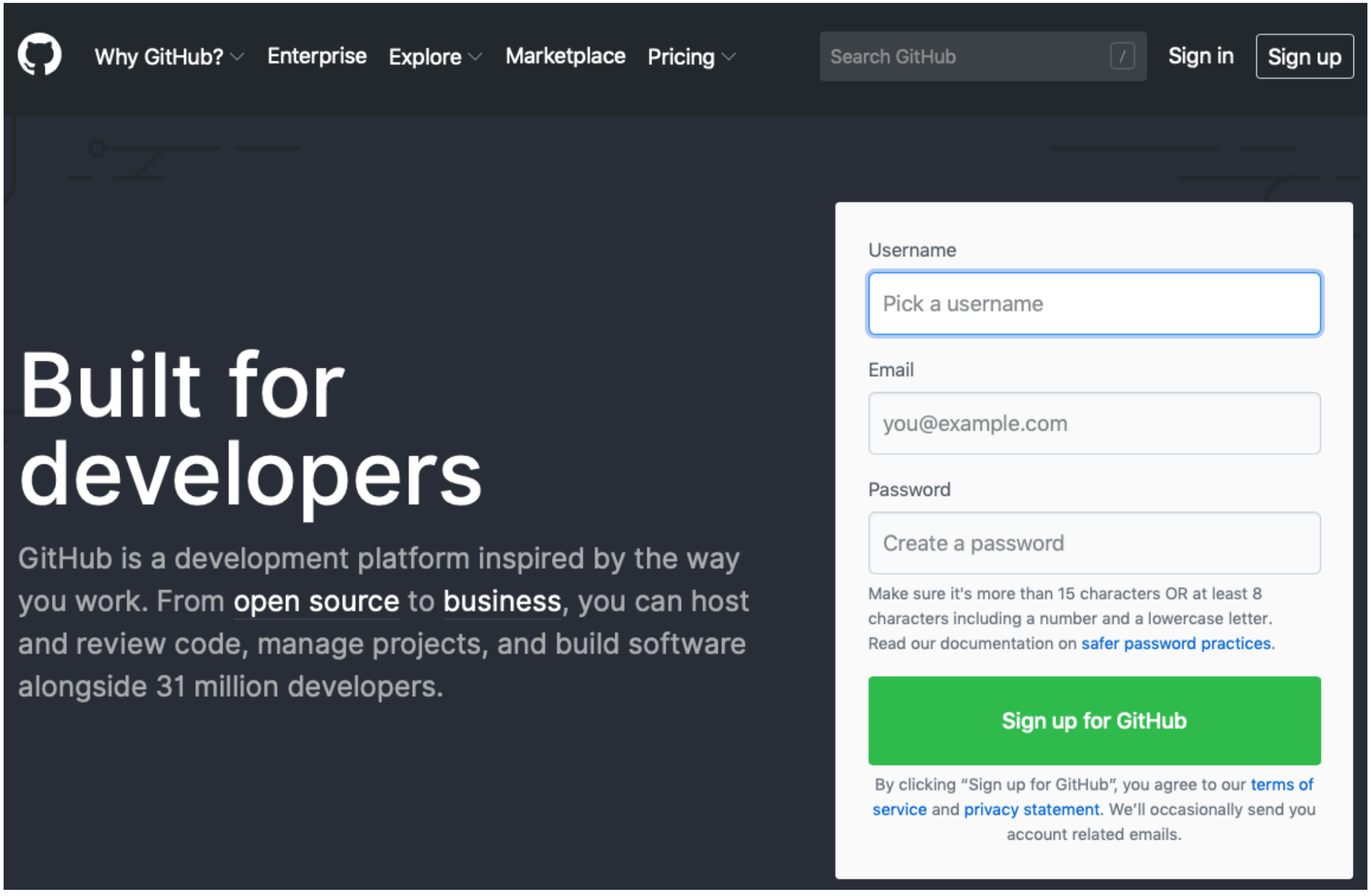
GitHub education

- 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

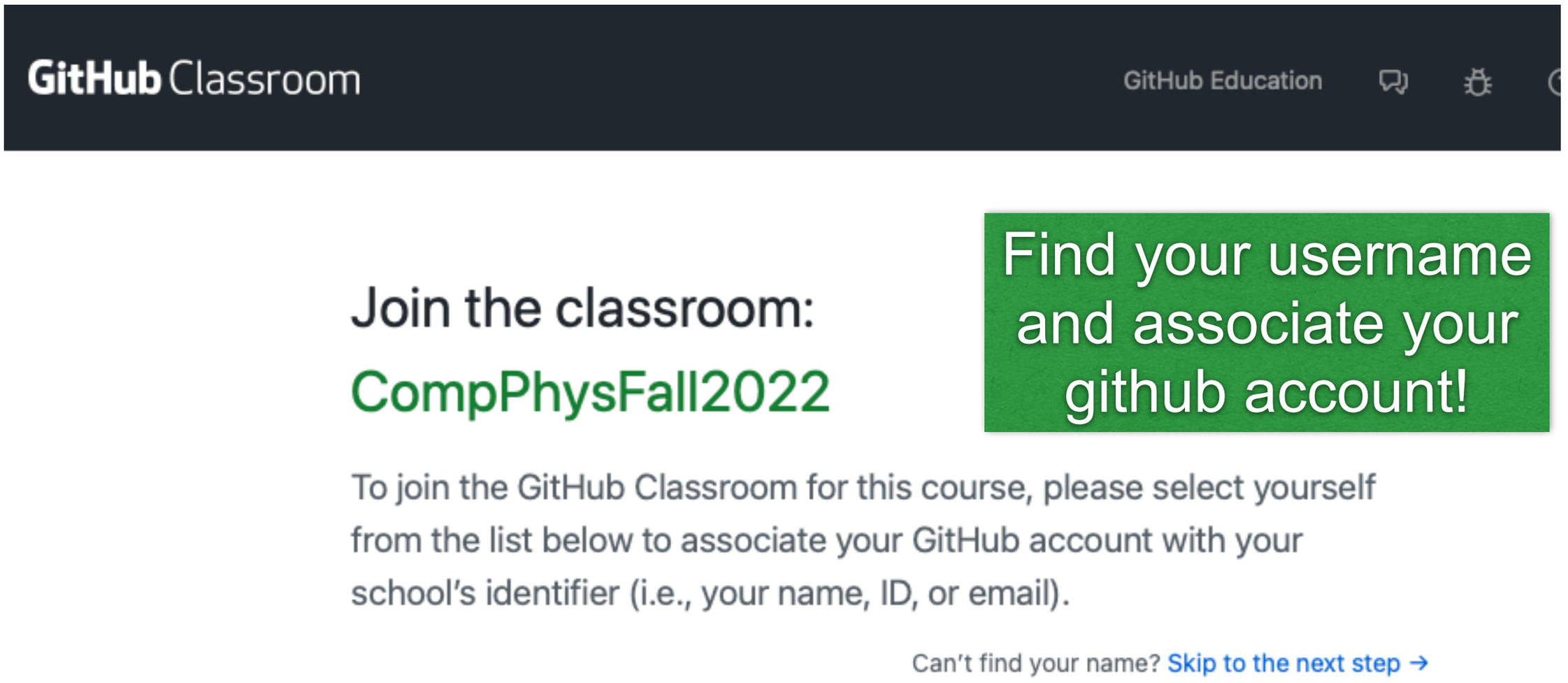
- Go to https://github.com
- Create account:



GitHub education

- Will need to join the classroom and link your GitHub account to your UB email
  - https://classroom.github.com/classrooms/46534332-compphysfall2022

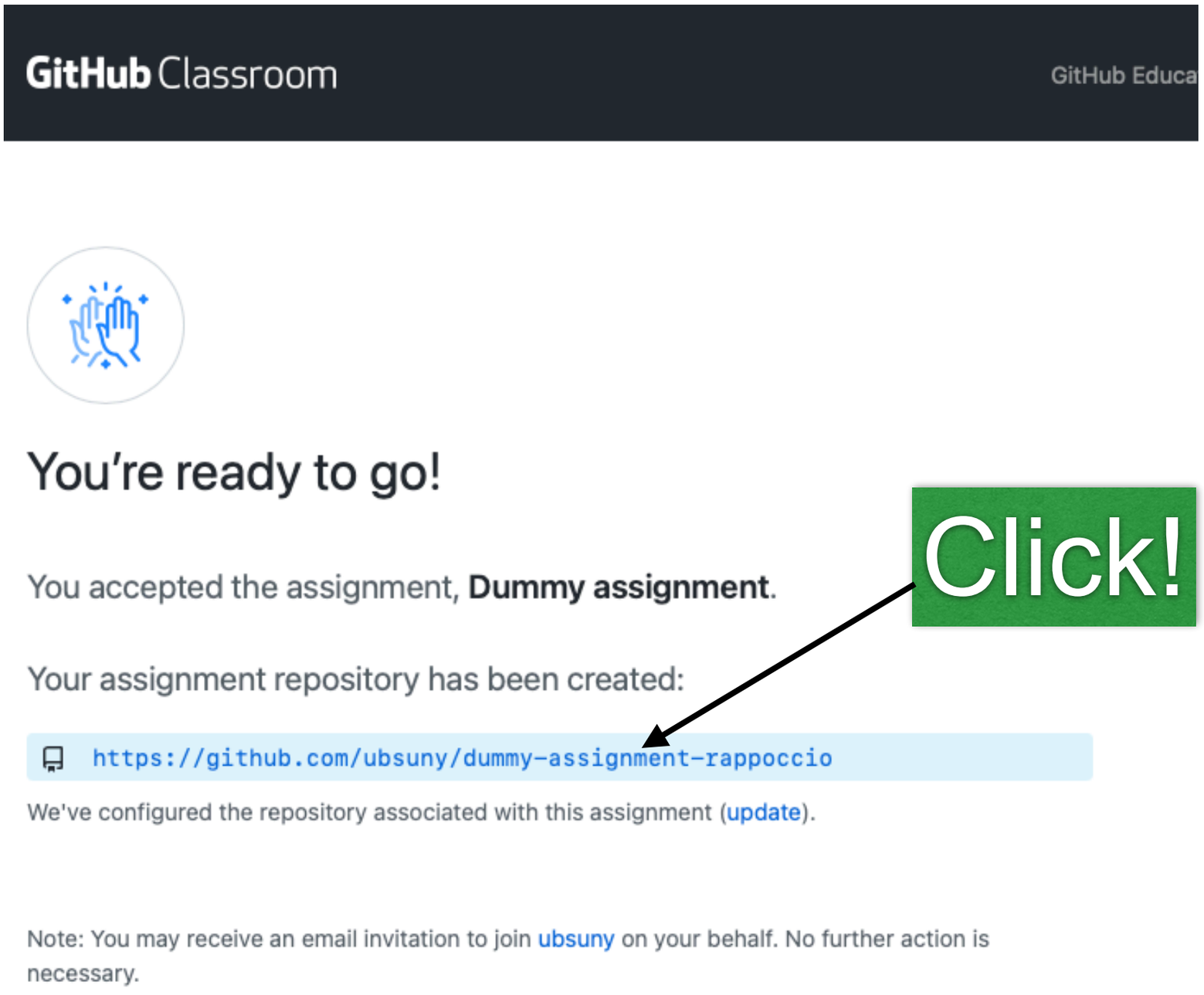
- Then you click on the assignment link.
  - Example: Dummy assignment is here: https://classroom.github.com/a/B4_2x-45



Find your username and associate your github account!

GitHub education

- Should get something like this:



GitHub education

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ubsuny / dummy-assignment-rappoccio Private

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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

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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

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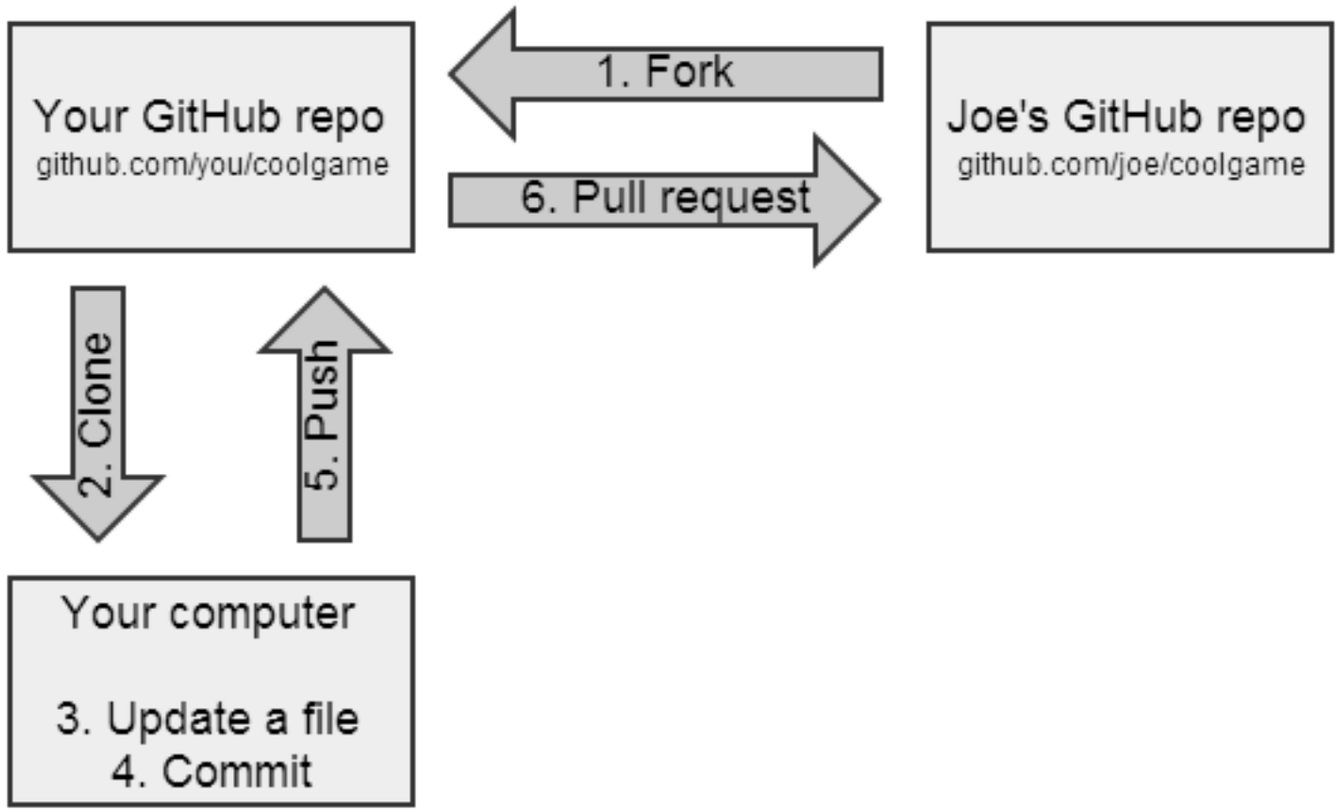
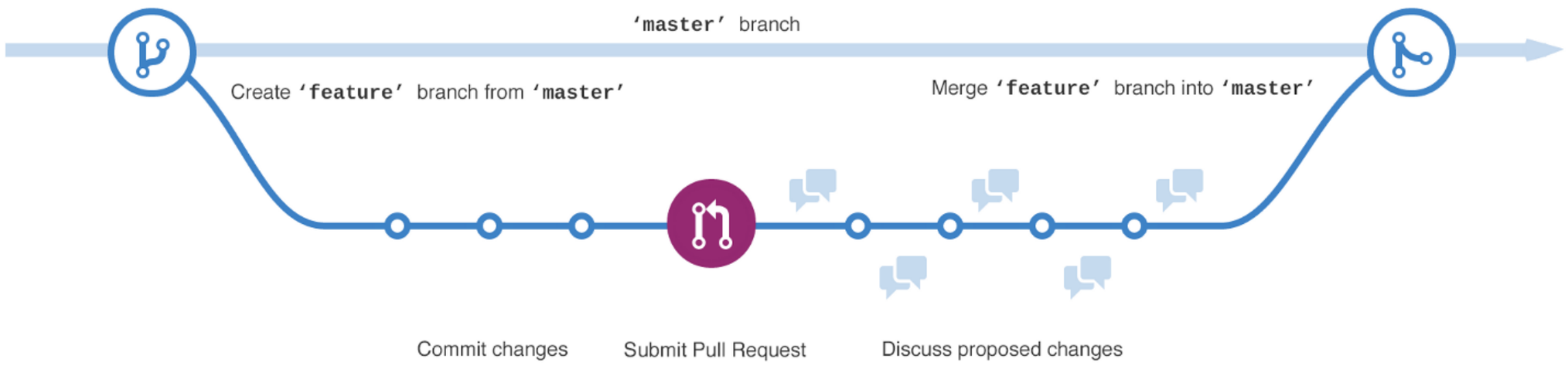
GitHub Workflow

- 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
```

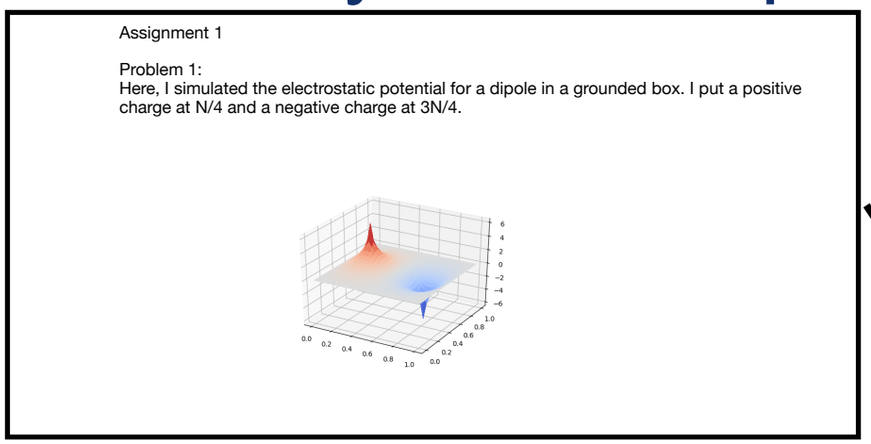
- Looks like:

```
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:



- Submit to UBLearns:

Code in GitHub