

Git + GitHub



GitHub

What is Git and GitHub?

- Git is the most popular **version control system**



- Developed by the creator of Linux

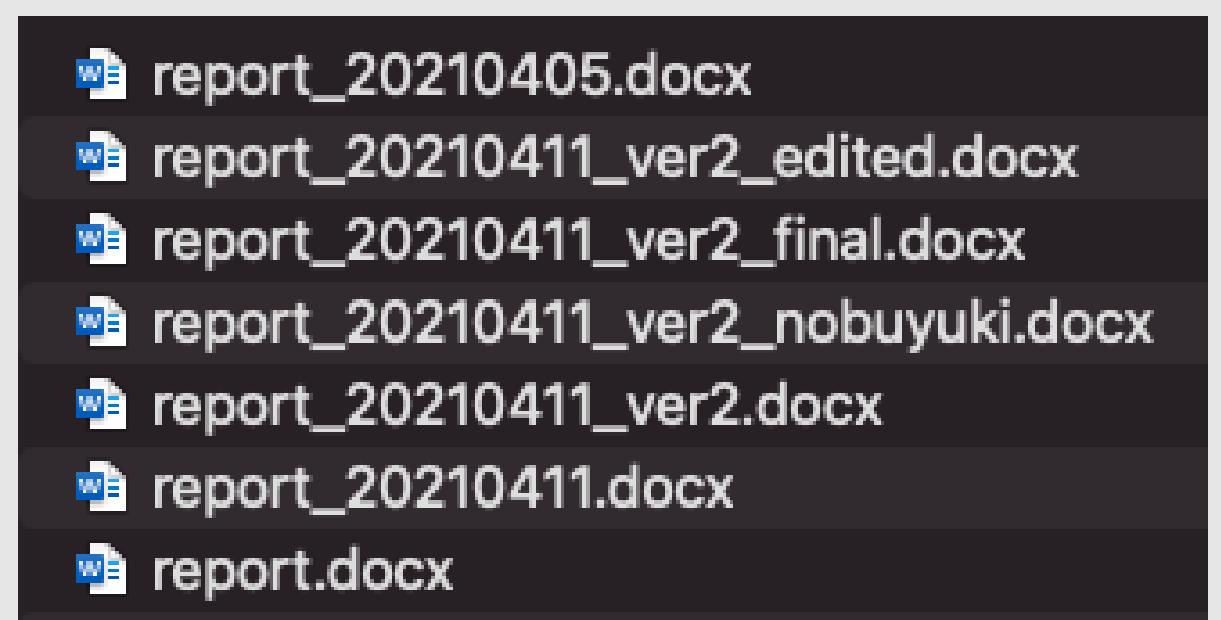


Linus Torvalds (Wikipedia)

- GitHub is an online service for git
 - Acquired by Microsoft

What is a Version Control System?

- **Version control system** manages the history of editing.
- Without version control system, its very difficult to tell the difference between the versions.



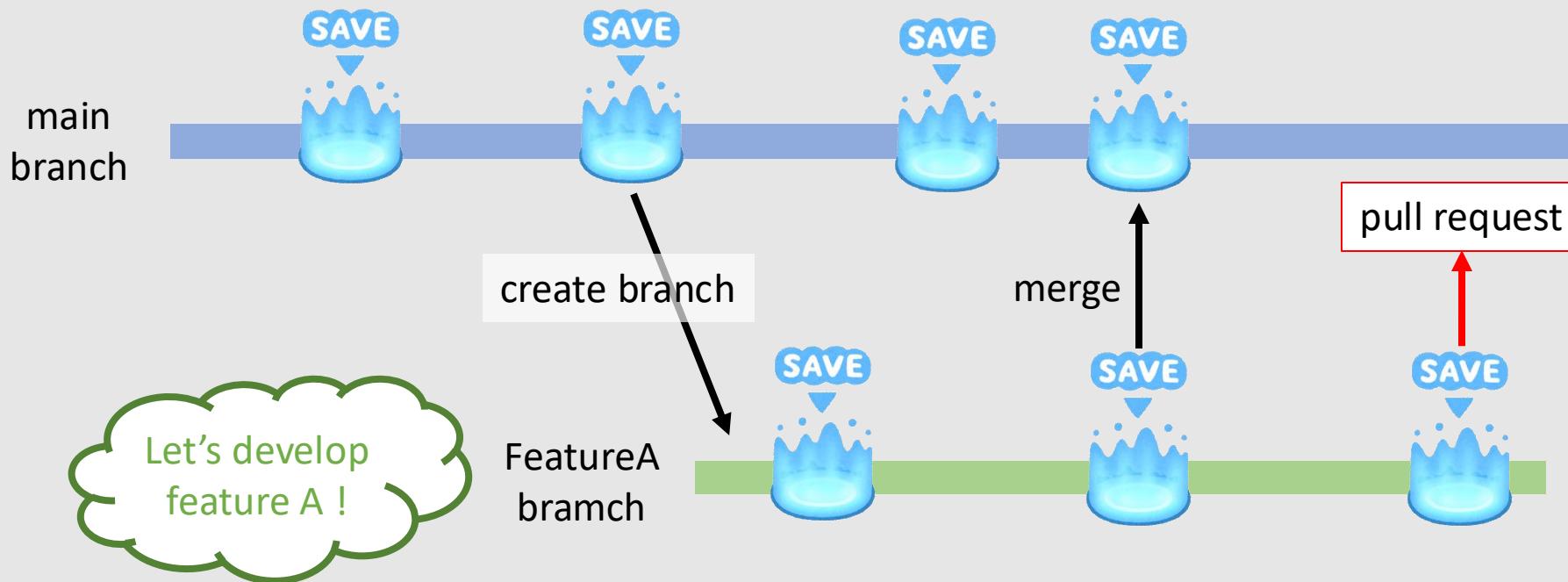
What is “Repository”?

- **Repository** is a database storing document and its revision
 - Remote repository (GitHub)
 - Local repository
- **Commit** is registration of the edit
 - You can always go back to the committed status of document
(It's similar to the save point of the RPG game)



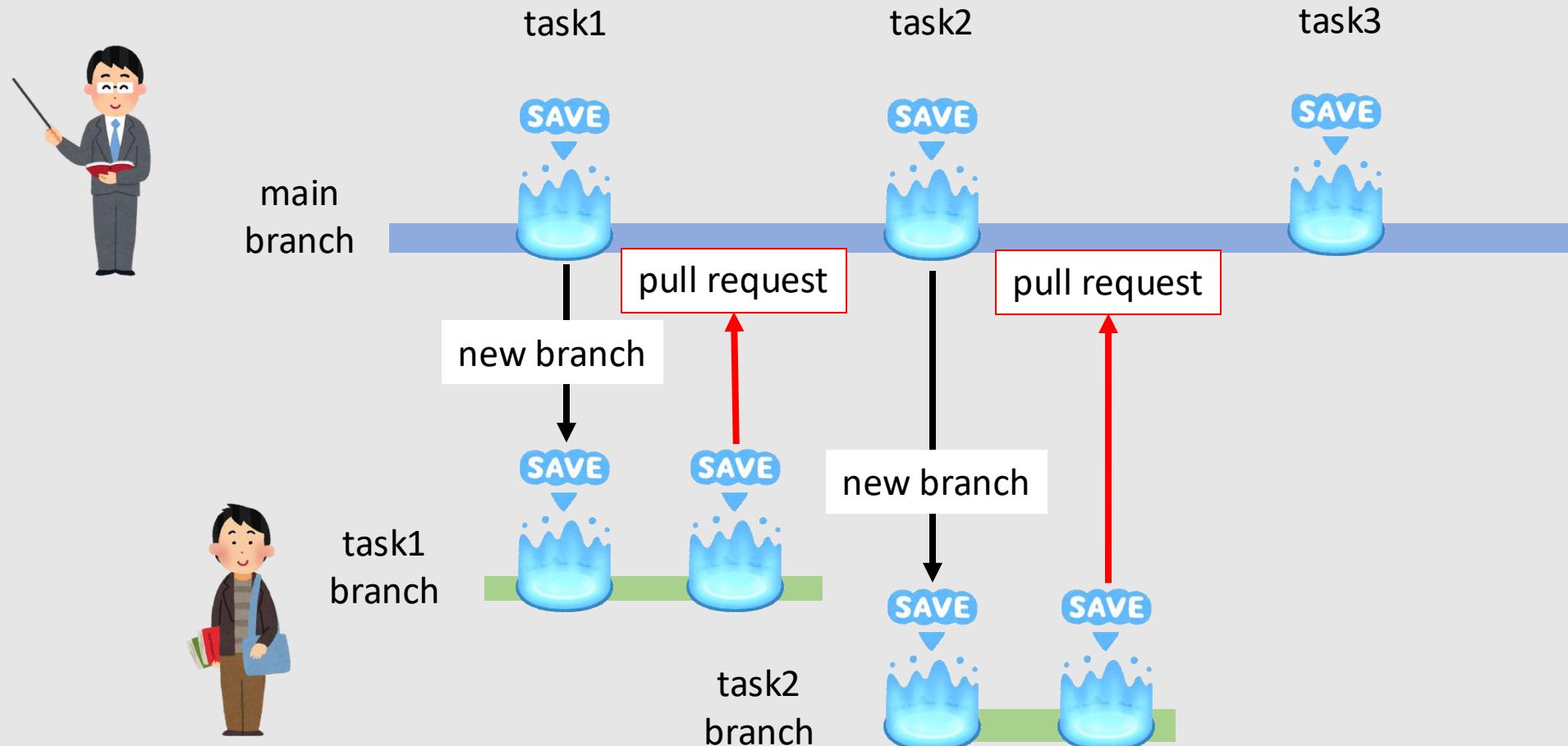
What is “Branch”?

- **Branch** is an independent line of development
- Branch can be **merged** later to the original branch
- “**pull request**” is to ask other people to merge



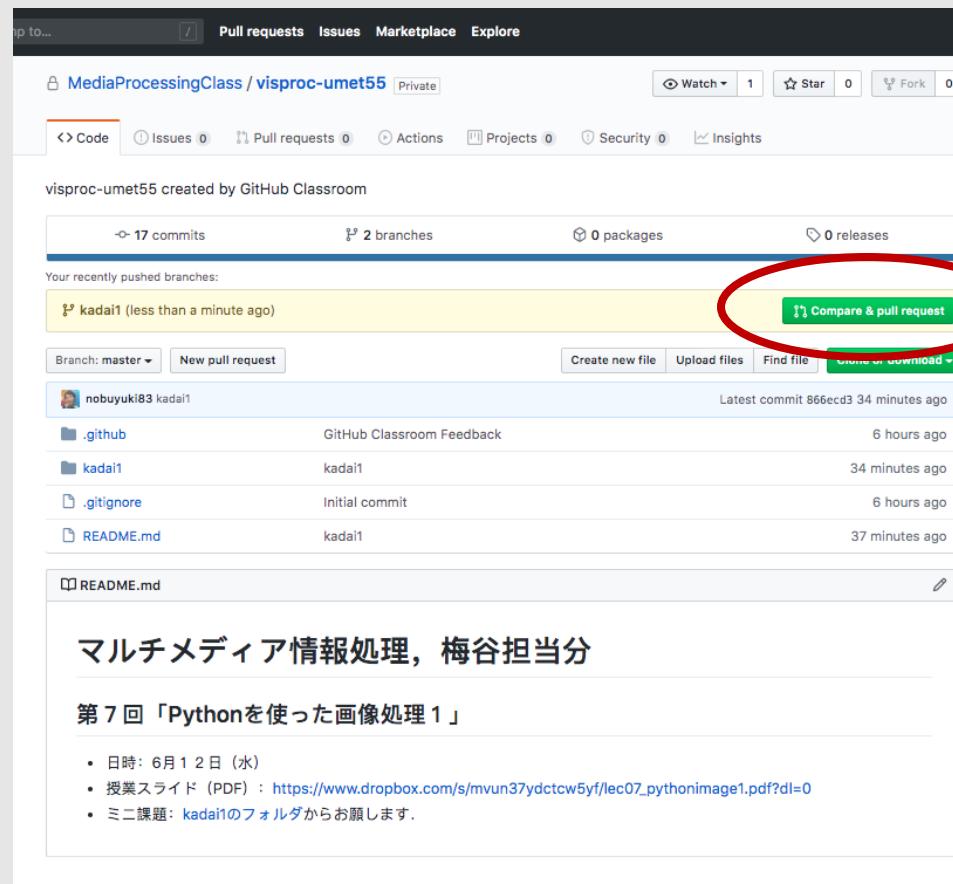
Branch Structure for the Repository

- Create branch for each task



Make a Pull Request for Submission

- Create branch for each task (e.g., “task1”)
- After creating branch, you can make a pull request



MediaProcessingClass / visproc-umet55 (Private)

visproc-umet55 created by GitHub Classroom

17 commits 2 branches 0 packages 0 releases

Your recently pushed branches:

- kada1 (less than a minute ago)

Branch: master New pull request

Compare & pull request

Latest commit 866ecd3 34 minutes ago

.github GitHub Classroom Feedback 6 hours ago

.gitignore kadai1 34 minutes ago

Initial commit 6 hours ago

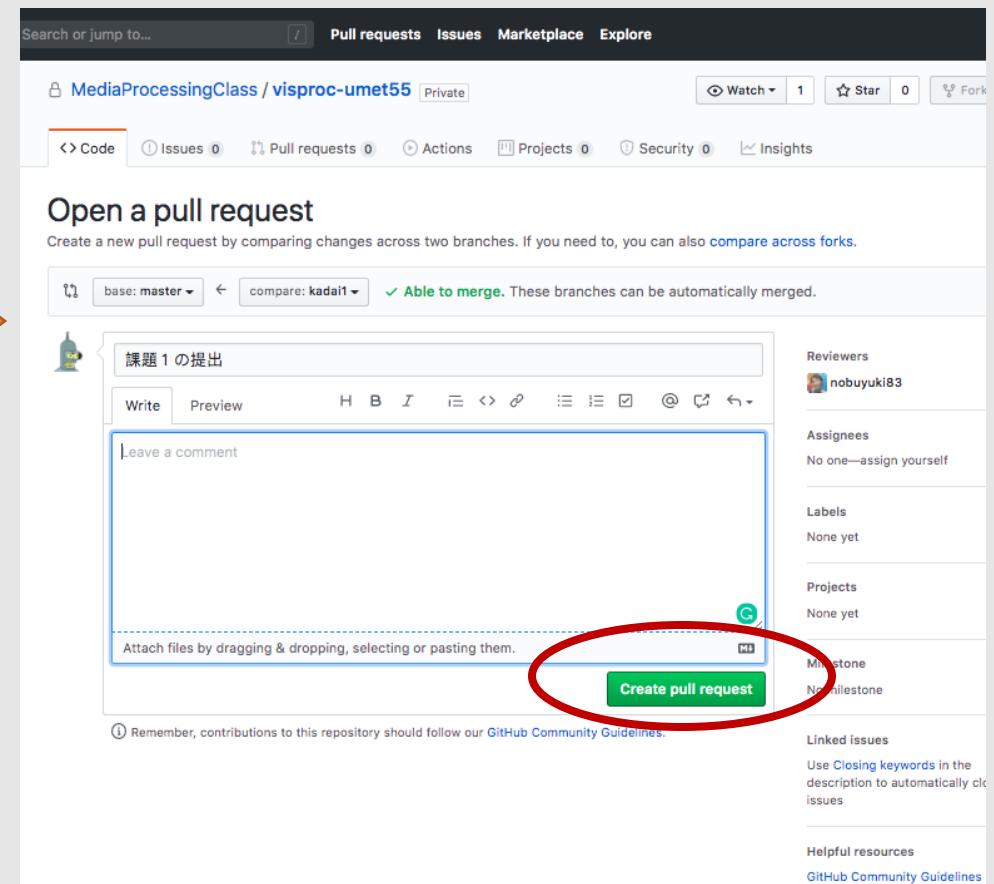
README.md kadai1 37 minutes ago

README.md

マルチメディア情報処理, 梅谷担当分

第7回「Pythonを使った画像処理1」

- 日時: 6月12日 (水)
- 授業スライド (PDF) : https://www.dropbox.com/s/mvun37ydctcw5yf/lec07_pythonimage1.pdf?dl=0
- ミニ課題: kada1のフォルダからお願いします。



Search or jump to...

Pull requests Issues Marketplace Explore

MediaProcessingClass / visproc-umet55 (Private)

Code Issues Pull requests Actions Projects Security Insights

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](#).

base: master compare: kada1 Able to merge. These branches can be automatically merged.

Reviewers nobuyuki83

Assignees No one—assign yourself

Labels None yet

Projects None yet

Milestone None

Linked issues Use Closing keywords in the description to automatically close issues

Helpful resources GitHub Community Guidelines

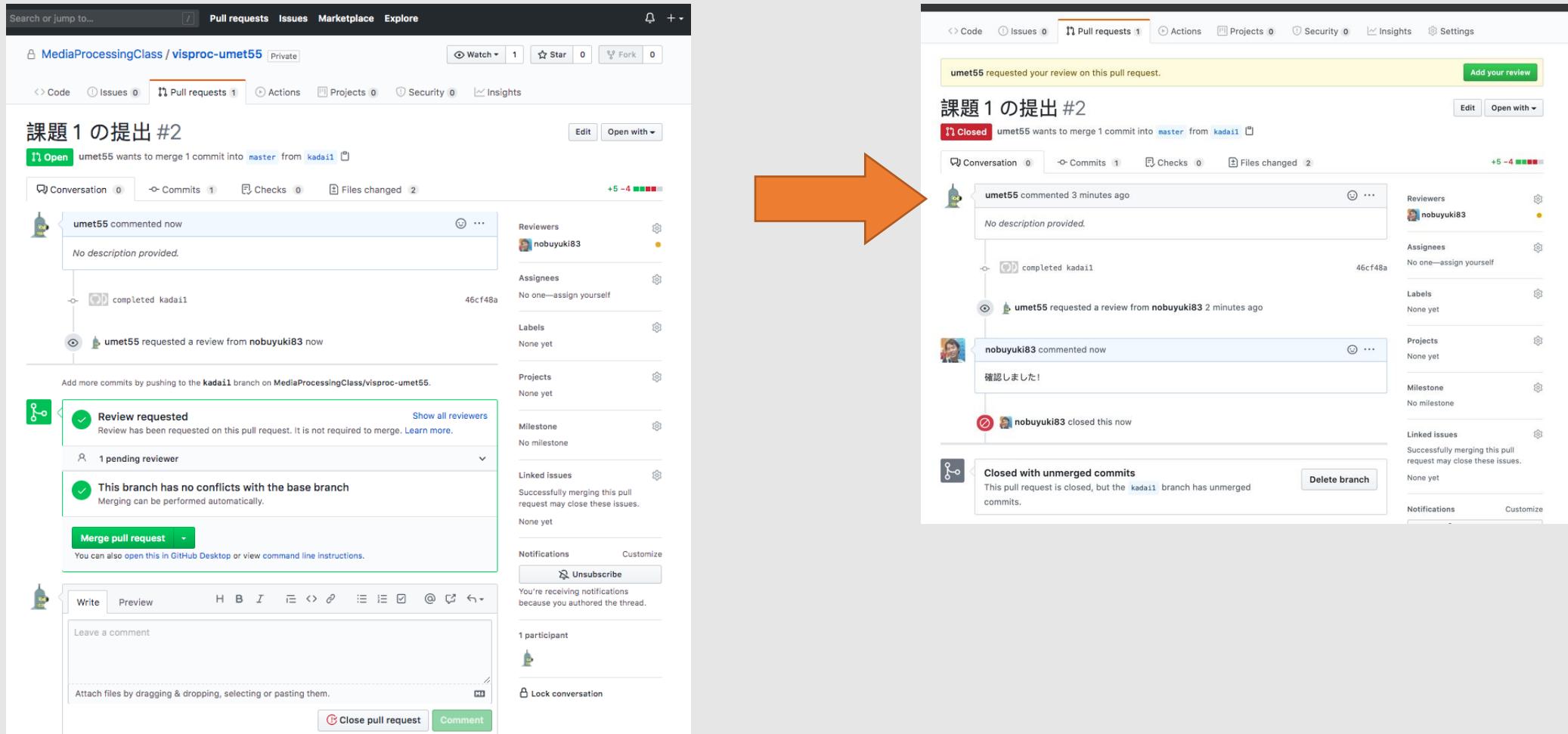
Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Create pull request

Instructor Closes Your Pull Request

- There might be comment from the instructor...



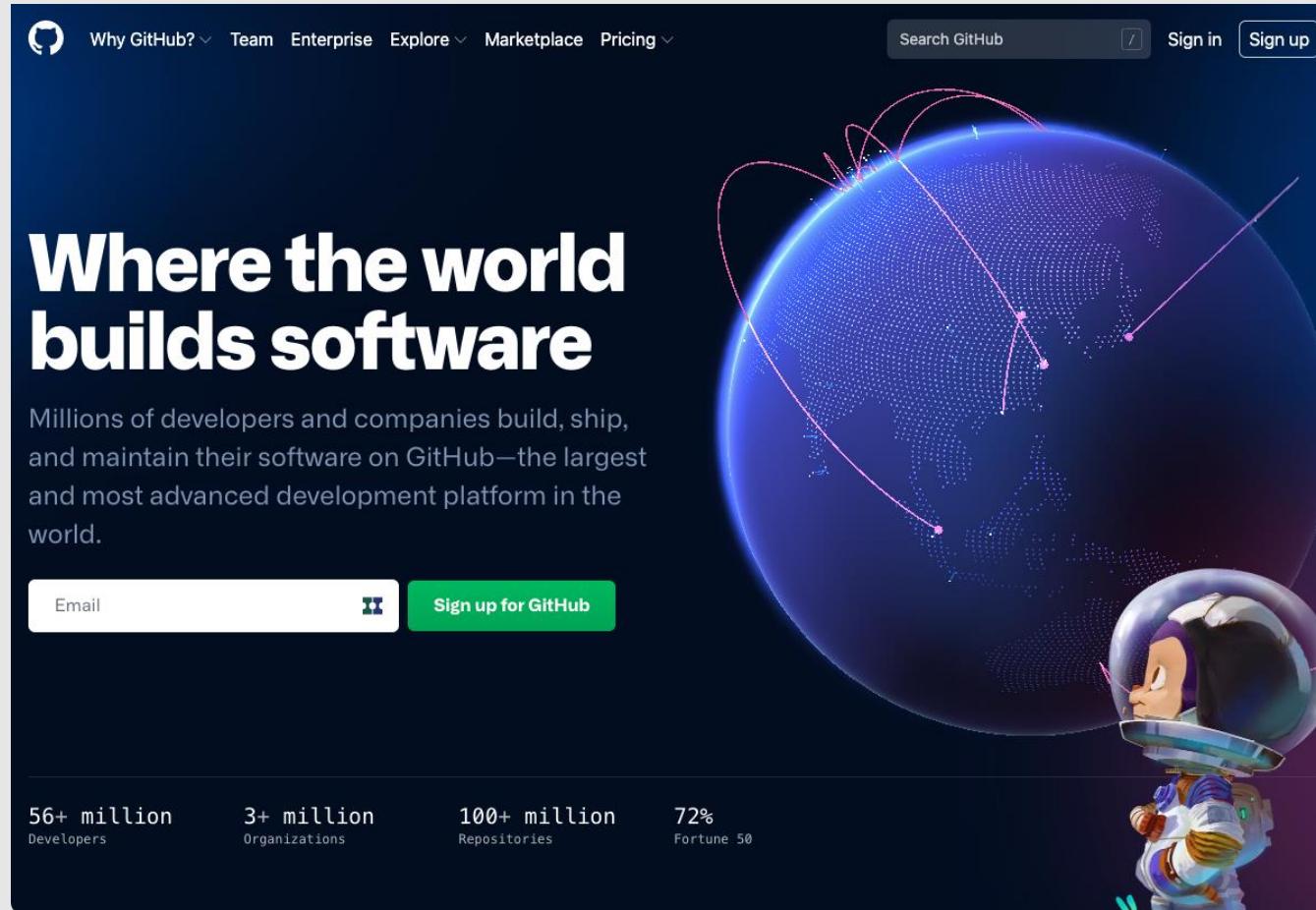
The image shows two screenshots of a GitHub pull request page, connected by a large orange arrow pointing from left to right, indicating the progression of the pull request's status.

Left Screenshot (Initial State): A pull request titled "課題1の提出 #2" is shown. The status is "Open" (green button). The description says "No description provided." The "Review requested" section is highlighted with a green border, showing "1 pending reviewer" (nobuyuki83). The "Merge pull request" button is visible. The "Comments" section shows a comment from "umet55" with the message "No description provided." and a reply from "kada11" with "completed". A "Review requested" message from "umet55" is also present.

Right Screenshot (Final State): The same pull request is now in a "Closed" state (red button). The status bar at the top says "umet55 requested your review on this pull request." The "Review requested" message from "umet55" is followed by a message from "nobuyuki83" saying "確認しました!" (Confirmed!). The "Merge pull request" button is now grayed out. The "Comments" section shows the "closed" message from "nobuyuki83". A note at the bottom states "Closed with unmerged commits" and "This pull request is closed, but the kada11 branch has unmerged commits." A "Delete branch" button is also visible.

Create a GitHub Account (if you don't have)

- GitHub will be your “facebook” as a software engineer

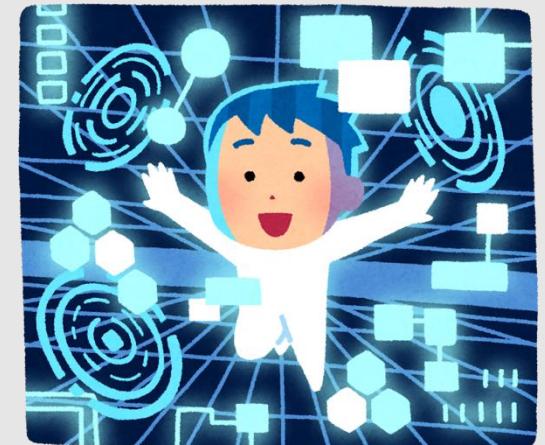


sign up here!

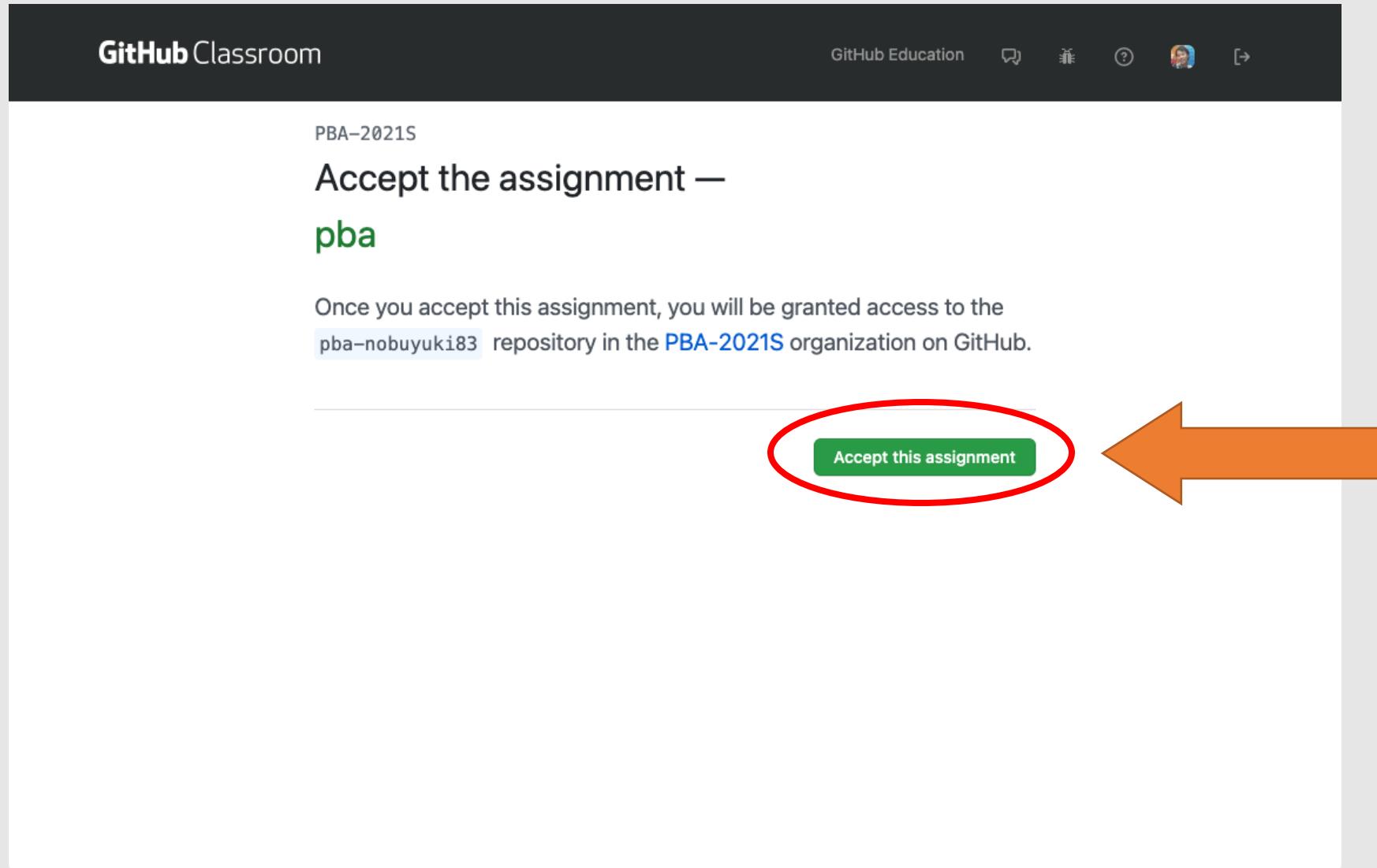
Let's Make the Class's GitHub Repository

- Each student create their own private repository using GitHub classroom.

https://classroom.github.com/a/*****



Press the green button “Accept this assignment”

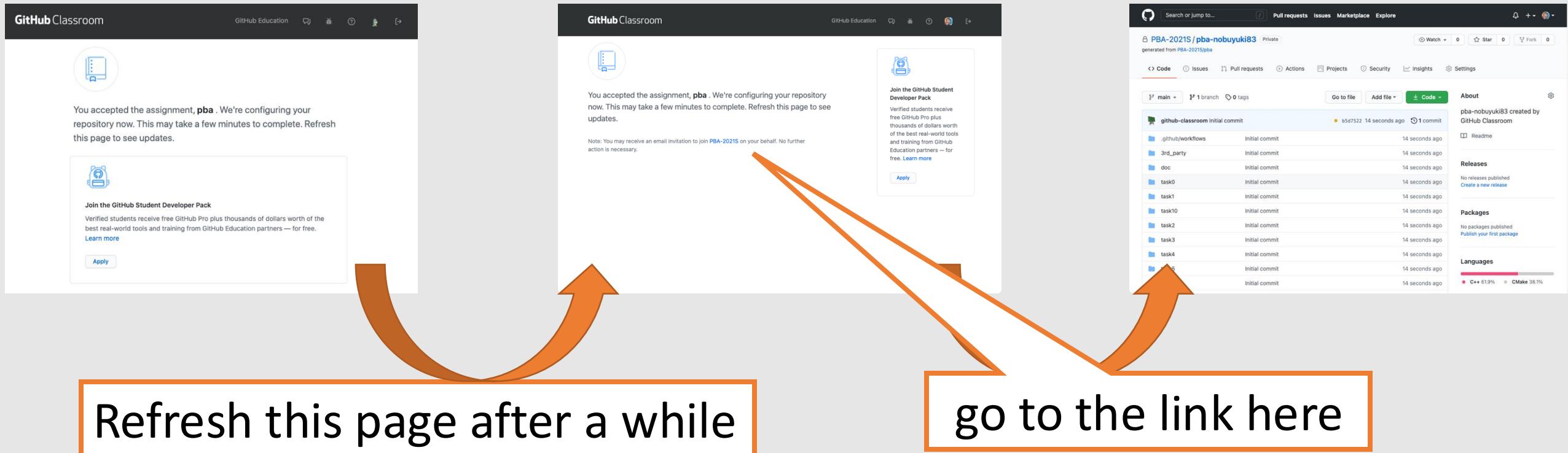


Choose Your Name from the List

If you cannot find your name in the list, go to this link and contact the instructor on Slack

Your New Repository will be Created

- The name of the repo will be “pba-<username>”



Git Best Practice

- Don't put intermediate files (automatically generated files)
 - E.g., *.obj, *.proj, *.sln, *.so, *.lib
 - Use Out-of-source build
 - Use ".gitignore" file to ignore specific type of files
- Use CI (continuous integration)

