

Short GitHub Tutorial

1. Apply for a student developer pack at (<https://education.github.com/pack>) with your Binghamton email.
 - Detailed steps of how to apply for a student developer pack: <https://help.github.com/articles/applying-for-a-student-developer-pack/>
2. We will create a remote repository on GitHub. We will clone the remote repository and develop the project locally on our computers.
3. Create a private repository using a student's GitHub account.

Create a new repository

A repository contains all the files for your project, including the revision history.

The screenshot shows the GitHub 'Create a new repository' form. It includes fields for 'Owner' (a dropdown menu), 'Repository name' (a text box containing 'hello-oscource' with a green checkmark), and 'Description (optional)' (a text box containing 'Short GitHub Tutorial'). Below these fields, there are two radio button options: 'Public' (with a lock icon) and 'Private' (with a lock icon and a blue selection dot). The 'Private' option is selected. Below the radio buttons, there is a checkbox labeled 'Initialize this repository with a README' which is checked. Below the checkbox, there are two dropdown menus: 'Add .gitignore: None' and 'Add a license: None'. At the bottom of the form is a green button labeled 'Create repository'.

4. If your local machine does not have Git on your Linux machine, please install Git.
 - `$ sudo apt install git`
5. Clone the private repository from the GitHub to the local machine.
 - `$ git clone https://github.com/<owner>/hello-oscource.git`
 - `$ cd hello-oscource/`
6. Check the development branch.
 - `$ git branch`
7. Develop the project.
8. Check the current status of the repository.
 - `$ git status`
9. Add the changes for the commitment.
 - `$ git add <file01> <file02> ...`
10. Commit the changes to the local repository.
 - `$ git commit`
11. Push the changes in the local repository to the remote repository on GitHub.
 - `$ git push origin <your-development-branch>`
12. Check your commit history.
 - `$ git log`

Git and GitHub Learning Resources: <https://help.github.com/articles/git-and-github-learning-resources/>