GitHub Tutorial

Goals for this tutorial:

1. Create a GitHub account
2. Create a branch
3. Commit a file
4. Create a pull request
5. Merge a pull request
6. Comment on a pull request
7. Use Markdown to add lists, images, and links in a comment or text file
8. Create a merge conflict
9. Resolve a merge conflict

General Instructions:

Code repositories are an industry standard when it comes to coordinating and facilitating large software development projects involving multiple developers and parties. GitHub is a widely used, free, online code repository, and you will be required to use it for your second project this semester. Thus, this tutorial is designed to give you a bit of practice in using GitHub. Note, that if you have already completed the tutorial you should delete your old repository and start the tutorial fresh, as some of the steps may have changed.

GitHub Practice

To complete this tutorial you will need to complete the following steps:

1. Create a GitHub account (https://github.com/)
2. Complete the tutorials:
    a. Introduction to GitHub (Name the repository introduction-to-github)
    b. Communicate Using Markdown (Name the repository communicate-using-markdown)
    c. Review Pull Requests (Name the repository review-pull-requests)
    d. Resolve Merge Conflicts (Name the repository resolve-merge-conflicts)

Note, sometimes it take a bit of time for GitHub to automatically update and recognize you have completed a step of the tutorial, so please be patient. Make sure you merge the pull request after all of the steps are completed (the pull request should be marked as Merged and turn purple).

Submission

Once you have fully completed a tutorial, you must take a screenshot of the successful merging of your pull request, after you have completed all of the steps. Please only submit .jpg or .png files for each tutorial screenshot. Below are examples of what the screenshots should look like:

Introduction to GitHub

Add my first file #1

⇄ Merged dragoonius merged 4 commits into `main` from `my-first-branch` ▢ 1 minute ago

| 💬 Conversation 0 | ○ Commits 3 | ☑ Checks 0 | ⊞ Files changed 3 |

dragoonius commented 1 minute ago   Owner ···

I have created a new branch, created a file, and made a commit.

🙂

↥ **github-actions** ⟨bot⟩ and others added 3 commits 4 minutes ago

○ ⊙ `Update to 2 in STEP and README.md`   39fa55f

○ ⊙ `Add PROFILE.md`   Verified ✓ e0ecfa0

○ ⊙ `Update to 3 in STEP and README.md`   ✓ bcd0f1e

○ ⊙ `Update to 4 in STEP and README.md`   b33d87f

⇄ ◉ **dragoonius** merged commit `5de36ce` into `main` 1 minute ago   Revert

⇄ **Pull request successfully merged and closed**   Delete branch

You're all set—the `my-first-branch` branch can be safely deleted.

Communicate Using Markdown

Start markdown #1

⋔ Merged dragoonius merged 10 commits into `main` from `start-markdown` ⧉ now

| 💬 Conversation 0 | ⊸ Commits 10 | ☰ Checks 0 | ⬆ Files changed 3 |

dragoonius commented 26 minutes ago — Owner ···

No description provided.

☺

⬆ **github-actions** bot and others added 10 commits 28 minutes ago

⊸	🐙	Create index.md file		ea89f14
⊸	🐙	Update to 1 in STEP and README.md		53402a2
⊸	👤	Update index.md	Verified ✓	a448325
⊸	🐙	Update to 2 in STEP and README.md		5051e0a
⊸	👤	Update index.md	Verified ✓	058c2f5
⊸	🐙	Update to 3 in STEP and README.md		208f962
⊸	👤	Update index.md	Verified ✓	4e13102
⊸	🐙	Update to 4 in STEP and README.md		98976c0
⊸	👤	Update index.md	Verified ✓	6c37a9b
⊸	🐙	Update to 5 in STEP and README.md		e5fdee6

⋔ 👤 **dragoonius** merged commit **504581b** into `main` now   Revert

⋔ **Pull request successfully merged and closed**   Delete branch
You're all set—the `start-markdown` branch can be safely deleted.

Review Pull Requests

Update the game over message #1

🔀 **Merged**   dragoonius merged 8 commits into `main` from `update-game` 🗗 now

💬 Conversation 2   Commits 7   ✓ Checks 1   ⊡ Files changed 3

dragoonius commented 8 minutes ago   Owner ···

Update the game over message so people know how to play again!

🙂

📤 **github-actions** bot added 3 commits 8 minutes ago

◦ Update game over message   aee13ae

◦ Update to 1 in STEP and README.md   ✓ 2d62427

◦ Update to 2 in STEP and README.md   ✓ 06443ea

👤 **dragoonius** self-assigned this 7 minutes ago

◦ Update to 3 in STEP and README.md   ✓ fce1fad

👁 **dragoonius** commented 4 minutes ago   View reviewed changes

dragoonius left a comment   Owner Author ···

It's ok.

🙂

◦ Update to 4 in STEP and README.md   ✓ 8fc8ef6

👁 **dragoonius** commented 3 minutes ago   View reviewed changes

index.html Outdated   ↕ Show resolved

📤 **github-actions** bot and others added 2 commits 3 minutes ago

◦ Update to 5 in STEP and README.md   dc9f5e8

◦ Update index.html ···   Verified ✓ b77e88f

➕ New changes since you last viewed   View changes

◦ Update to 6 in STEP and README.md   b6b8b14

🔀 **dragoonius** merged commit **be708ee** into `main` 1 minute ago   Revert

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🔀 **Pull request successfully merged and closed**   Delete branch
    You're all set—the `update-game` branch can be safely deleted.

Resolve Merge Conflicts

You must submit your screenshots via Canvas by the posted due date. Remember, using code repositories is a skill that you will almost certainly be expected to utilize at some point in the software development world, so make sure you take your time on these tutorials and ask if you have any questions.