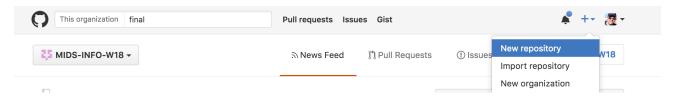


First create an empty repository in Github for your homework, you can do this through the github user interface.

Create a new repository

this is done through the add menu on the upper right

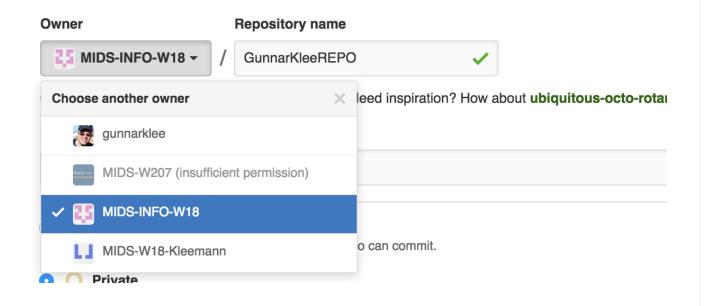


--

- Put your repository in the MIDS-INFO-W18 organization
- Name it your FirstnameLastnameREPO so mine should be "GunnarKleemannREPO"

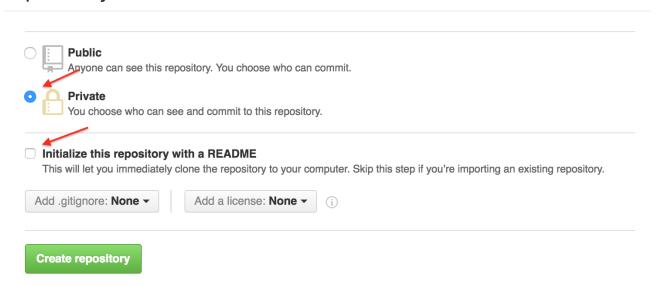
Create a new repository

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



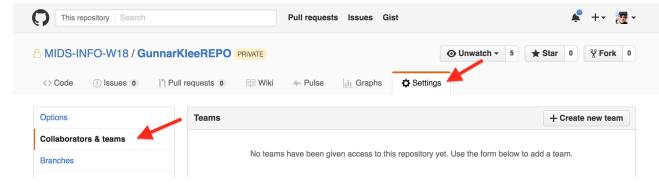
• Make the repository private with the radio button

Important: Do not add a readme file you need an empty repository

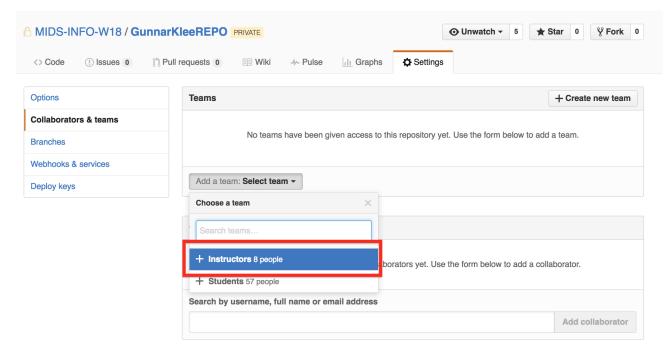


Give the instructors read access

• In your new private repository, go to the settings tab, on the right and then select collaborators and teams on the left



• Give (only) instructors read access:



• You should see this:



Clone the assignments directory on your system

You need to tell git that you will be pulling content (homeworks) onto your machine from assignment-upstream-summer17 and pushing modified content (completed homeworks) to YourNameREPO on github

Open a command prompt and use it to navigate to your desktop or course working directory. Then execute the following commands:

Note: lines preceded by "#" are comments to explain each step and should not be executed.

clone the assignment repository onto your computer

```
git clone https://github.com/MIDS-INFO-W18/assignment-upstream-summer17.git
# (or https://github.com/MIDS-INFO-W18/assignment-upstream-w18.git for the 10 week course)

# Note: This may be an empty repository at the beginning of the course.

cd assignment-upstream-summer17

# (or cd assignment-upstream-w18 for the 10 week course)

git remote add upstream https://github.com/MIDS-INFO-W18/assignment-upstream-summer17.git
# or git remote add upstream https://github.com/MIDS-INFO-W18/assignment-upstream-w18.git
```

You can find the URL for YourNameREPO by navigating to the appropriate repository in your web browser, then clicking on the "Clone or download" button in the upper right corner.

```
# set the origin to your personal repository
git remote remove origin
git remote add origin <ENTER YOUR REPOSITORY HTTPS URL HERE>
# i.e. git remote add origin https://github.com/MIDS-INFO-W18/GunnarKleeRepo.git
```

To check if you did everything right, execute the following command:

```
git remote -v
```

• The output should show "fetch" and "push" for two remotes, one named origin and one named upstream.

Note: the name of the upstream folder differs based on the semester. The example screenshots are from fall 2016 thus we see: assignment-upstream-fall-2016.

```
rKleeREPO.git

'CON Gunnars-MacBook-Pro:assignment-upstream-fall-2016 GunnarK$ git remote -v
origin https://github.com/MIDS-INFO-W18/GunnarKleeREPO.git (fetch)
origin https://github.com/MIDS-INFO-W18/GunnarKleeREPO.git (push)

upstream https://github.com/MIDS-INFO-W18/assignment-upstream-fall-2016.git (fetch)
upstream https://github.com/MIDS-INFO-W18/assignment-upstream-fall-2016.git (push)

Gunnars-MacBook-Pro:assignment-upstream-fall-2016 GunnarK$
```

· You should also use the Is command to confirm that the assignment files have been copied to your machine.

Workflow for Each Week

Each week, you will begin by navigating to your local version of assignment-upstream-summer17, and downloading the latest changes from the remote assignment-upstream-summer17 repository. You do this with a git pull:

```
git pull upstream master
```

Next, you will have a assignment-upstream-summer17/SUBMISSIONS folder that you will make in the next exercise.

- Make a copy of your assignment and move it to the SUBMISSIONS folder.
- Complete all the exercises in the assignment-upstream-summer17/SUBMISSIONS folder on your local machine and commit your changes to git.
- Finally, you'll push your changes up to your personal student repository on github. You can do this with the following command:

```
git push origin master
```

Completing the Exercise

For this exercise you will post your first work to the assignment-upstream-summer17 repository. The Github repository installation contains the exercise.

- Make a new folder called "SUBMISSIONS" in your local assignment-upstream-summer17 folder
 - Try using the mkdir command from within your local assignment-upstream-summer17
- Clone the installation directory to your local machine

```
git clone https://github.com/MIDS-INFO-W18/Installation.git
```

- · Copy the file "First_GitHub_Exercise.txt"
 - From your local Installation directory. To your local assignment-upstream-summer17/SUBMISSIONS folder (or assignment-upstream-w18/SUBMISSIONS folder)
 - To copy the file you can practice using the command line cp command or just drag and drop the file.
- Open the file, answer the questions, and save.
- · Commit the changes to your local repository. Go back to your command terminal and type the following.

```
git status
```

• This should confirm that you have a modified file in your repository. Go ahead and add the file.

```
git add SUBMISSIONS/
#check status to see that your file has been added as a new file (in green)
git status
#Then commit your changes.
git commit -m "completed GitHub exercise".
```

Pushing Changes to GitHub

Now it is time to push your changes up to your GitHub repository. First, run git status to confirm that all your code is currently committed. Next, push your changes to the master branch of origin, representing your repository on GitHub.

```
git push origin master
```

Check the GitHub repository in your browser to confirm that your changes are there.

merging

• Note: from time to time you may have to merge the upstream and your local drive when you pull in a version of the repository that are not the same. you may see a screen like this

```
Merge branch 'master' of https://github.com/MIDS-INFO-W18/assignment-upstream-fall-2016

# Please enter a commit message to explain why this merge is necessary,
# especially if it merges an updated upstream into a topic branch.
# Lines starting with '#' will be ignored, and an empty message aborts
# the commit.

upstream added readme file

--- INSERT ---
```

This is VIM, a command line text editor. you need to enter a short message overwriting one of the blue tilde and then write the message to file

to do this:

- 1. Type 'i' to enter the "insert" mode (look to the bottom of the screen for the word "INSERT"
- 2. Use arrow keys to navigate to the line above the blue tilde and type in a message (any explanation about one line long)
- 3. Exit the insert mode by pushing "esc" ("INSERT" will disapear) then
- 4. type :wq this means "write then quit" you should see some sort of message indicating that the merge was sucessful as shown below.

```
Gunnars-MacBook-Pro:assignment-upstream-fall-2016 GunnarK$ git pull upstream master warning: no common commits remote: Counting objects: 3, done. remote: Compressing objects: 100% (2/2), done. remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 Unpacking objects: 100% (3/3), done. From <a href="https://github.com/MIDS-INFO-W18/assignment-upstream-fall-2016">https://github.com/MIDS-INFO-W18/assignment-upstream-fall-2016</a> Merge made by the 'recursive' strategy.H_HEAD README.md | 4 ++++ master -> upstream/master 1 file changed, 4 insertions(+) create mode 100644 README.md
```