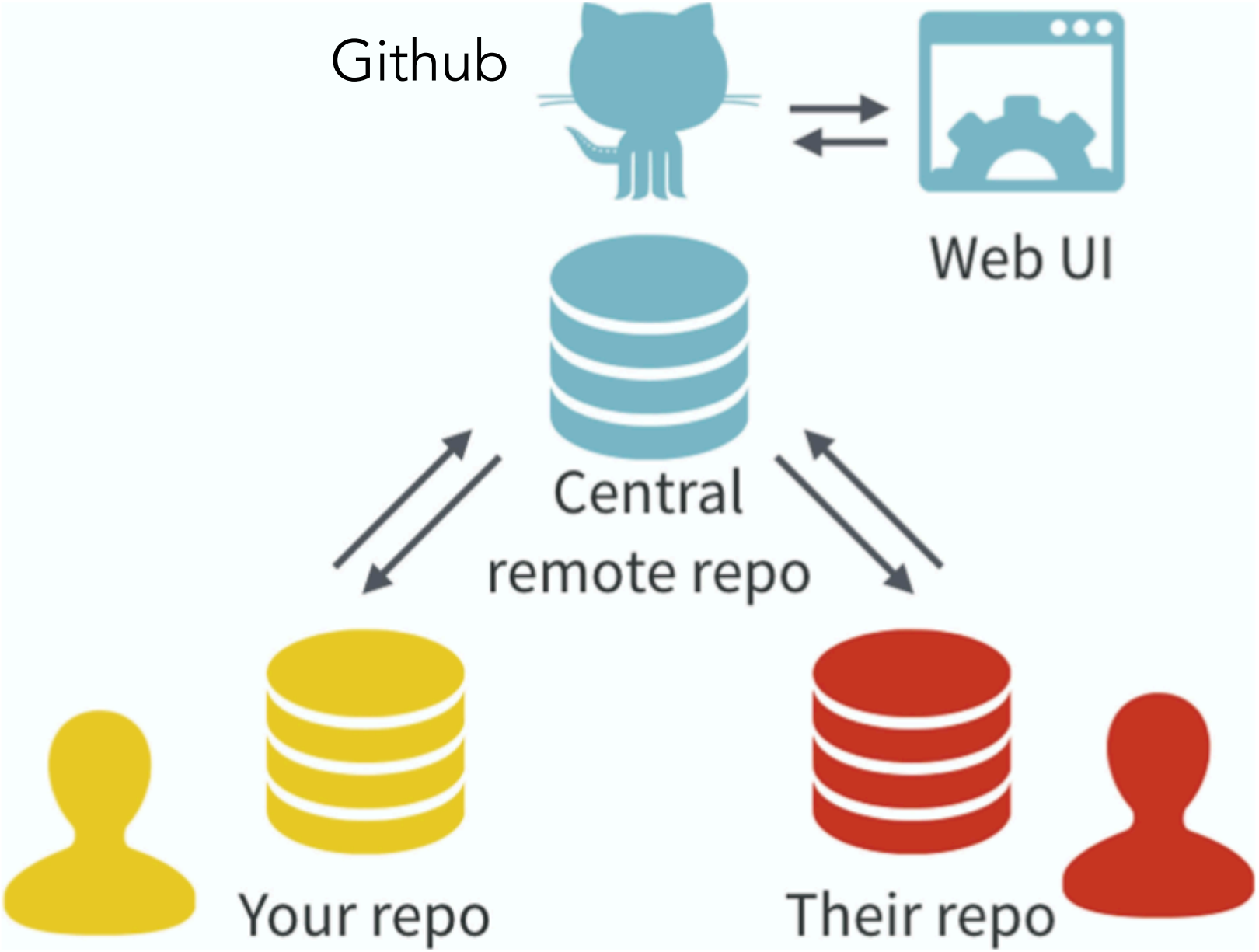
# Setting up a Github repo and basic Git commands

1 October 2021

Modern Research Methods




(Bryan, 2018)

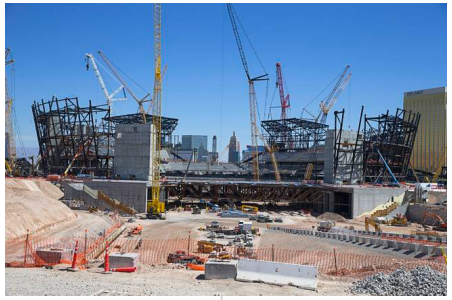
# The workflow

Your Working Directory

Staging Area

Local Repo

Central Repo on Github



`add`

`rm`

`commit`

`push`

`pull`

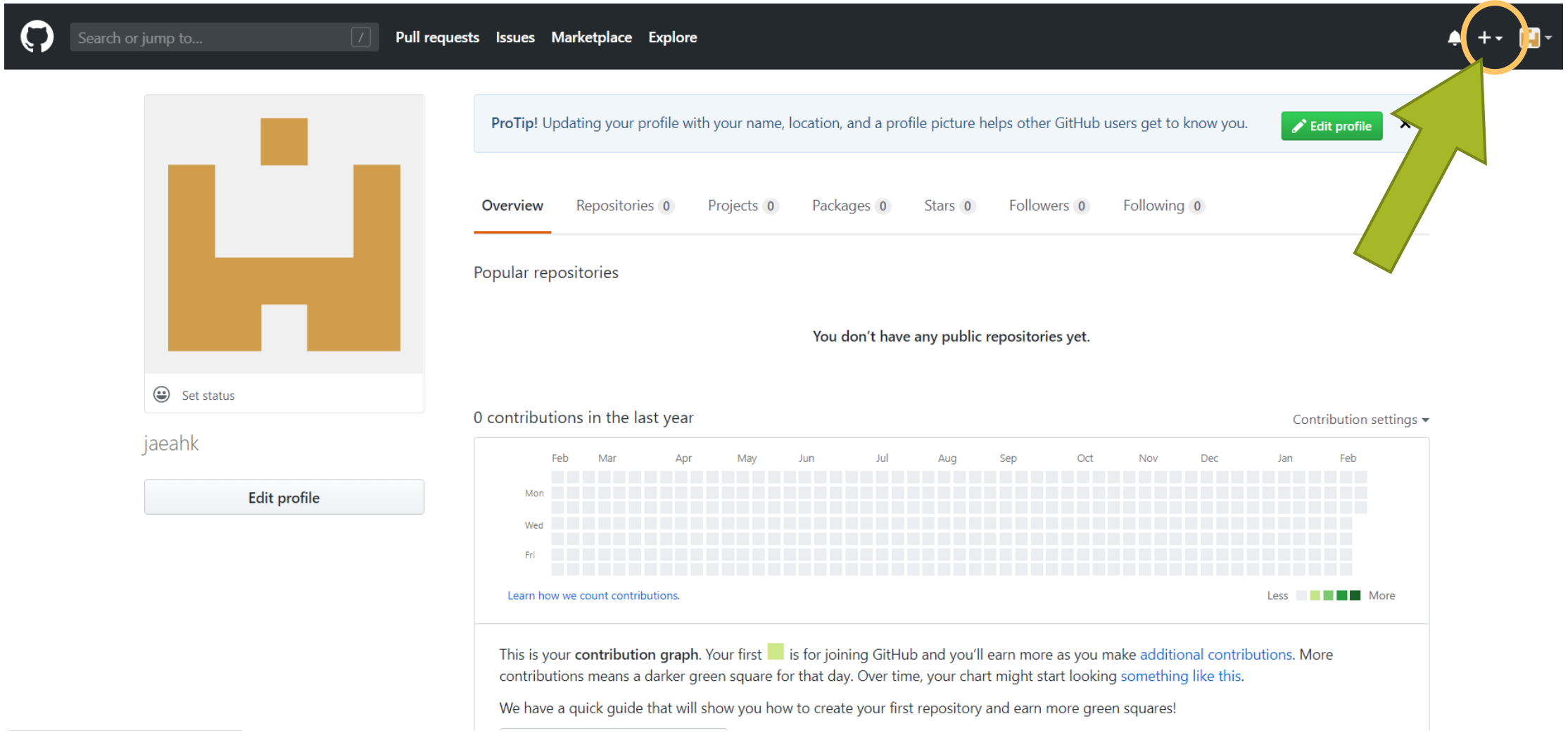
`clone` `(first time)`

https://github.com/mllewis/RC

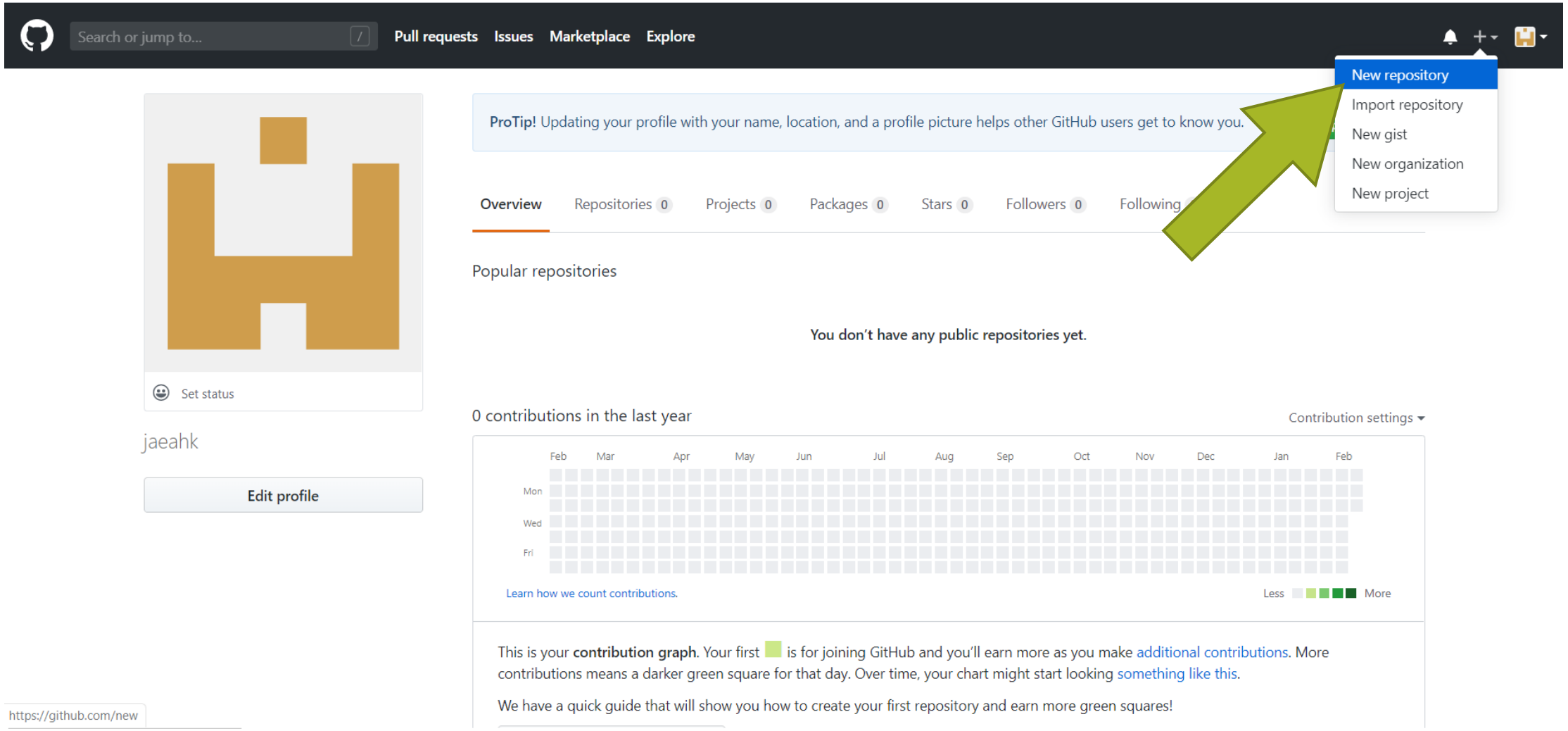
In groups of 2-3, answer the following questions:

1. What is the directory structure of the repo?
2. How many commits are there?
3. What was the first commit message on Aug 21, 2015
4. Can you find the object to the right? (obj_15.jpg)
5. How many collaborators were there on this project?

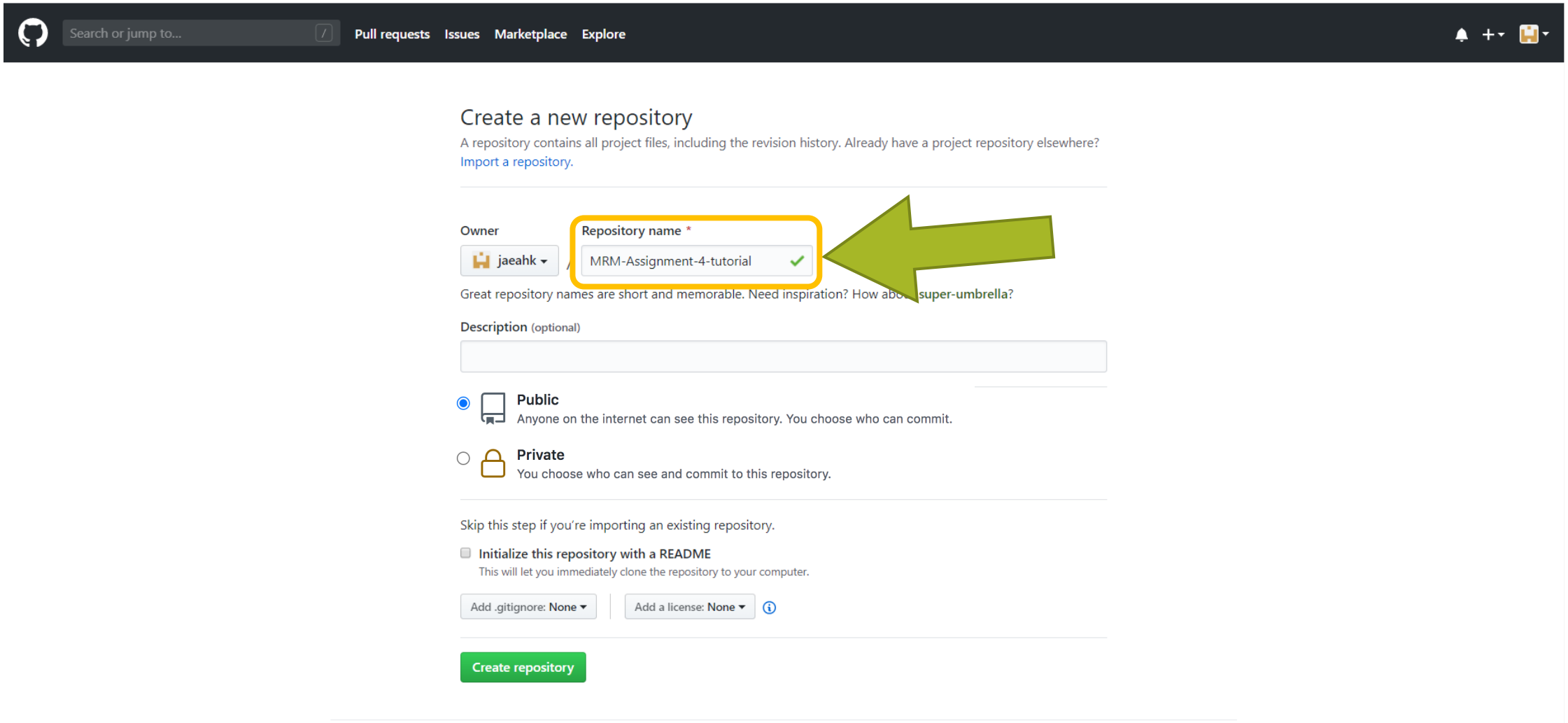
# Setting up a GitHub repository



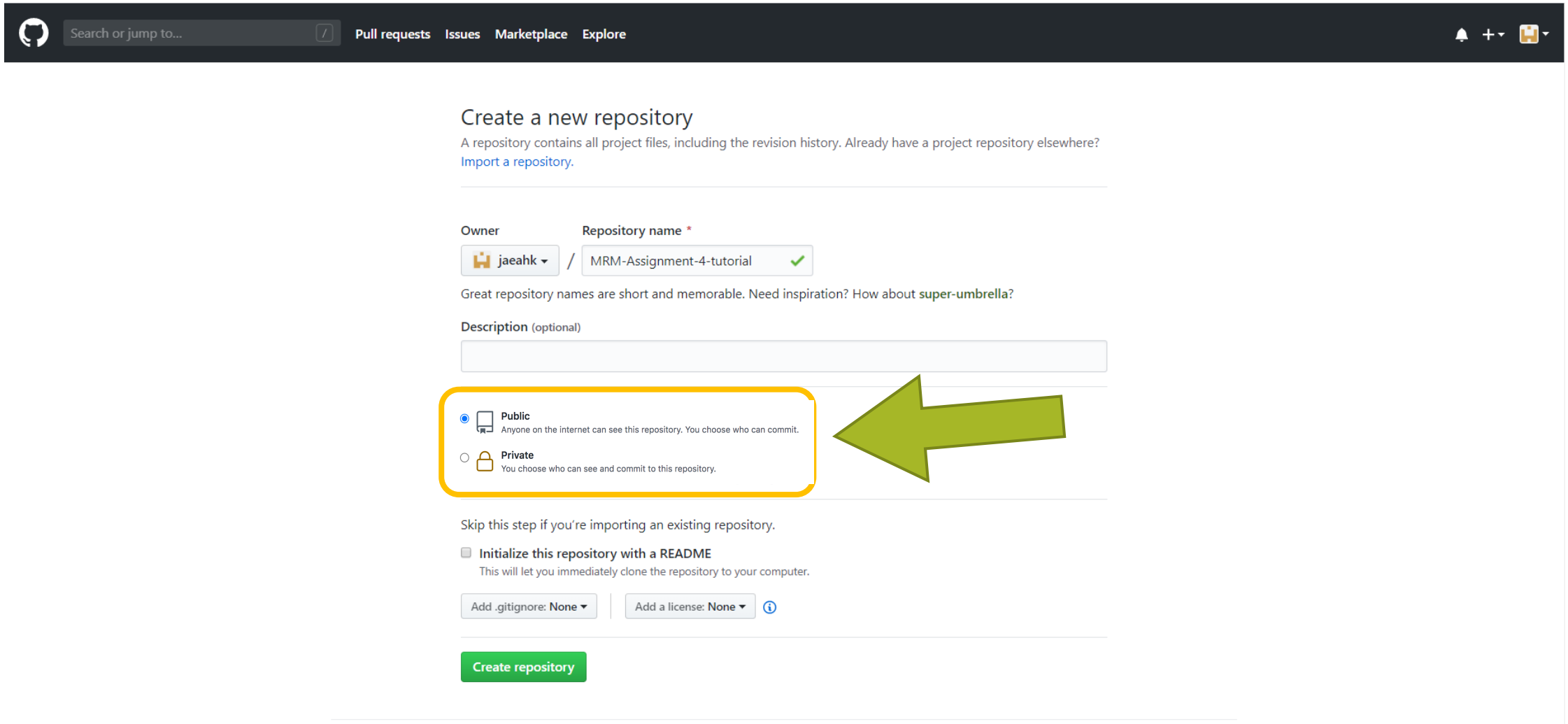
# Setting up a GitHub repository



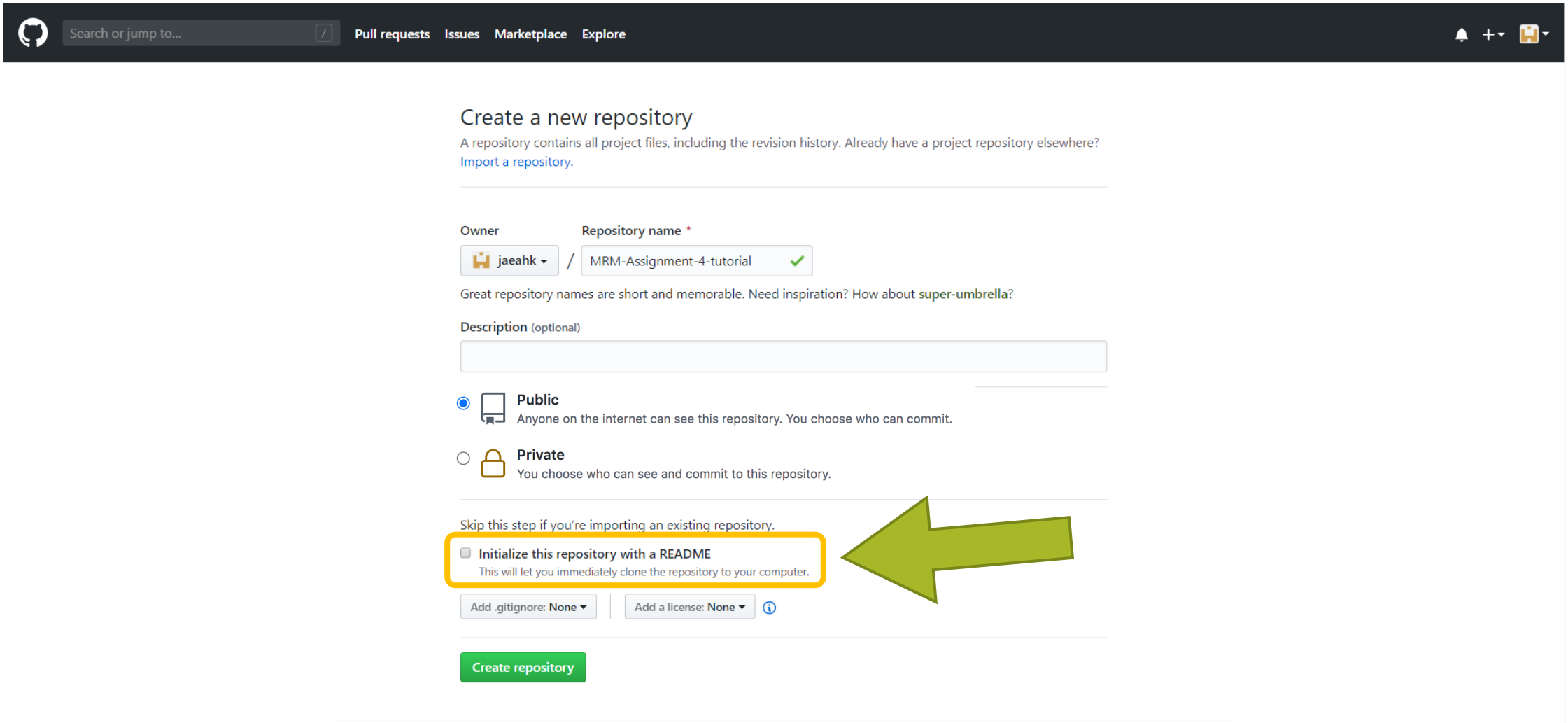
# Setting up a GitHub repository



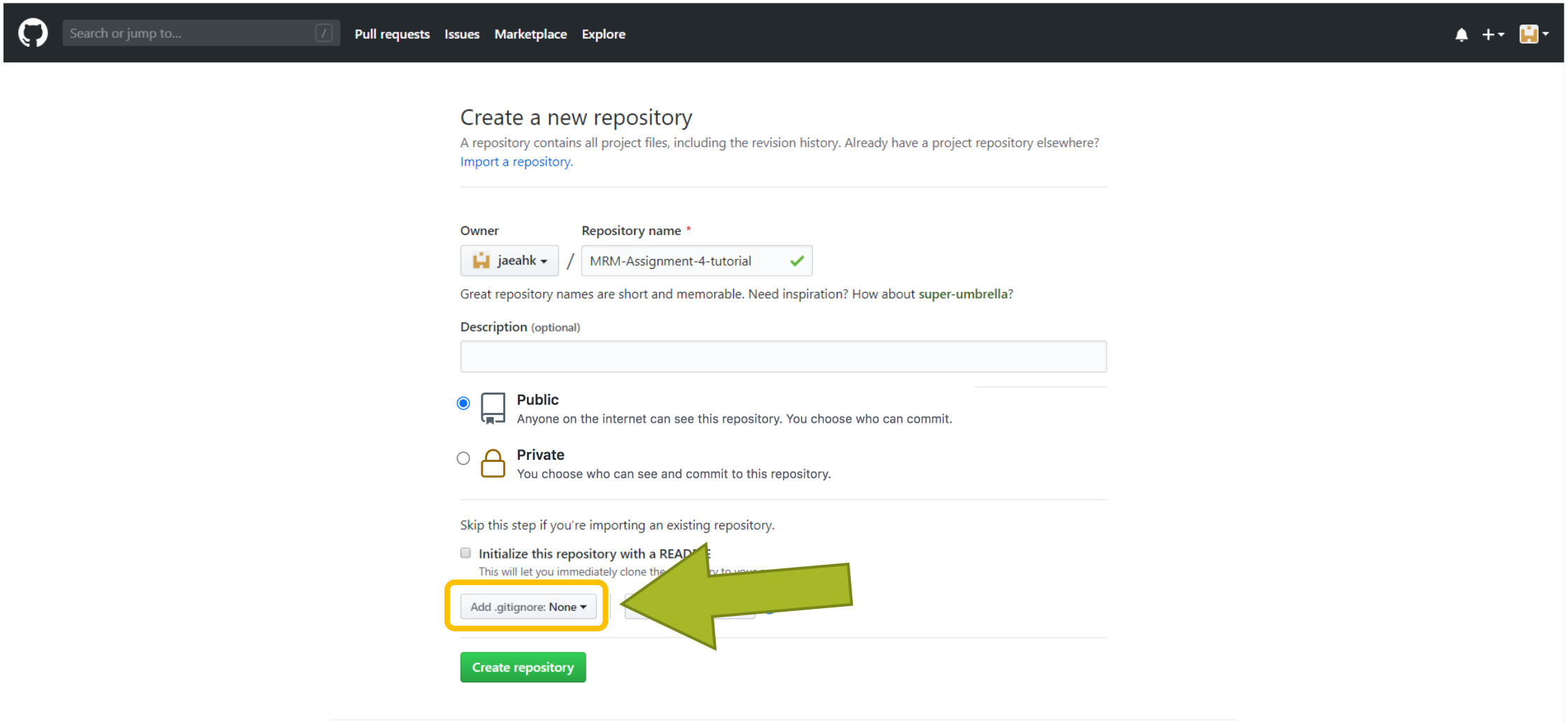
# Setting up a GitHub repository



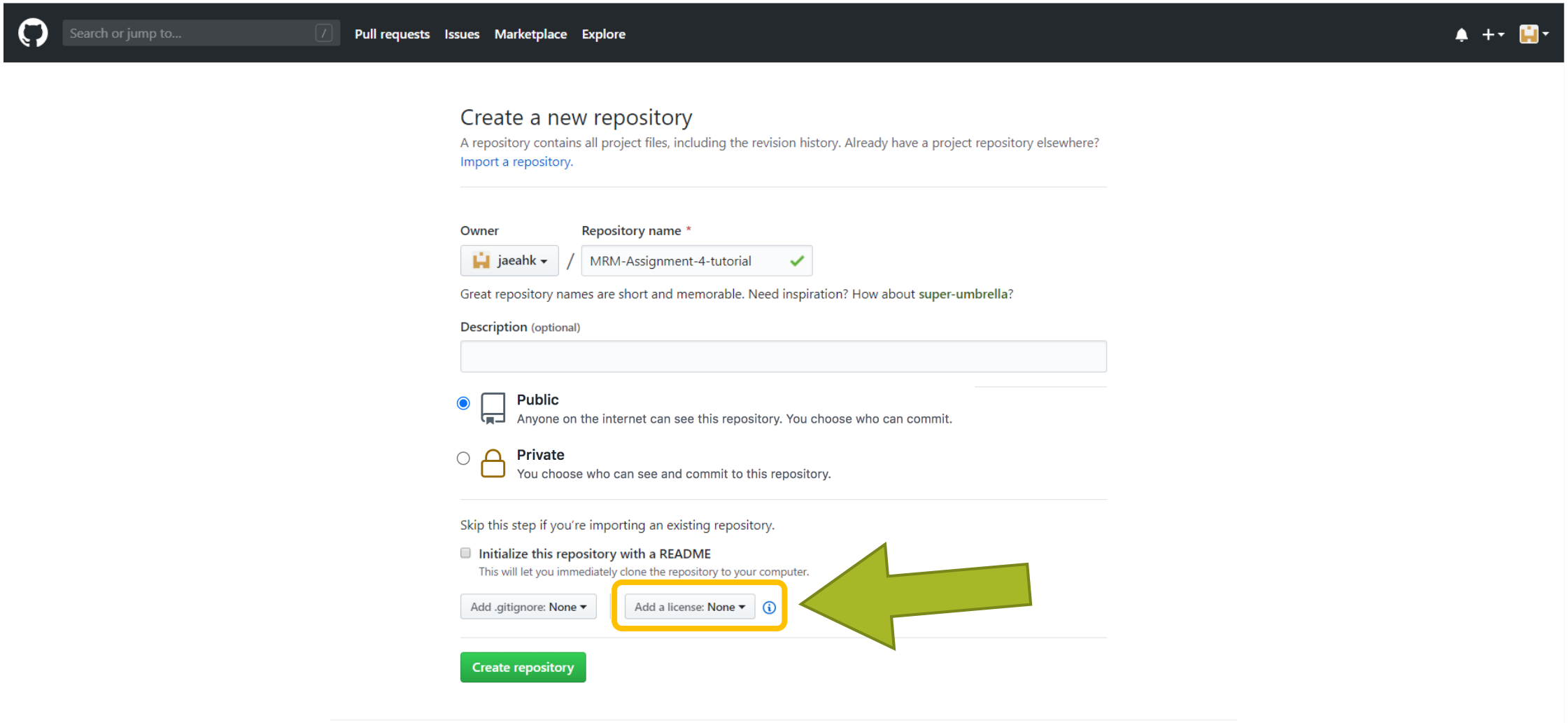
# Setting up a GitHub repository



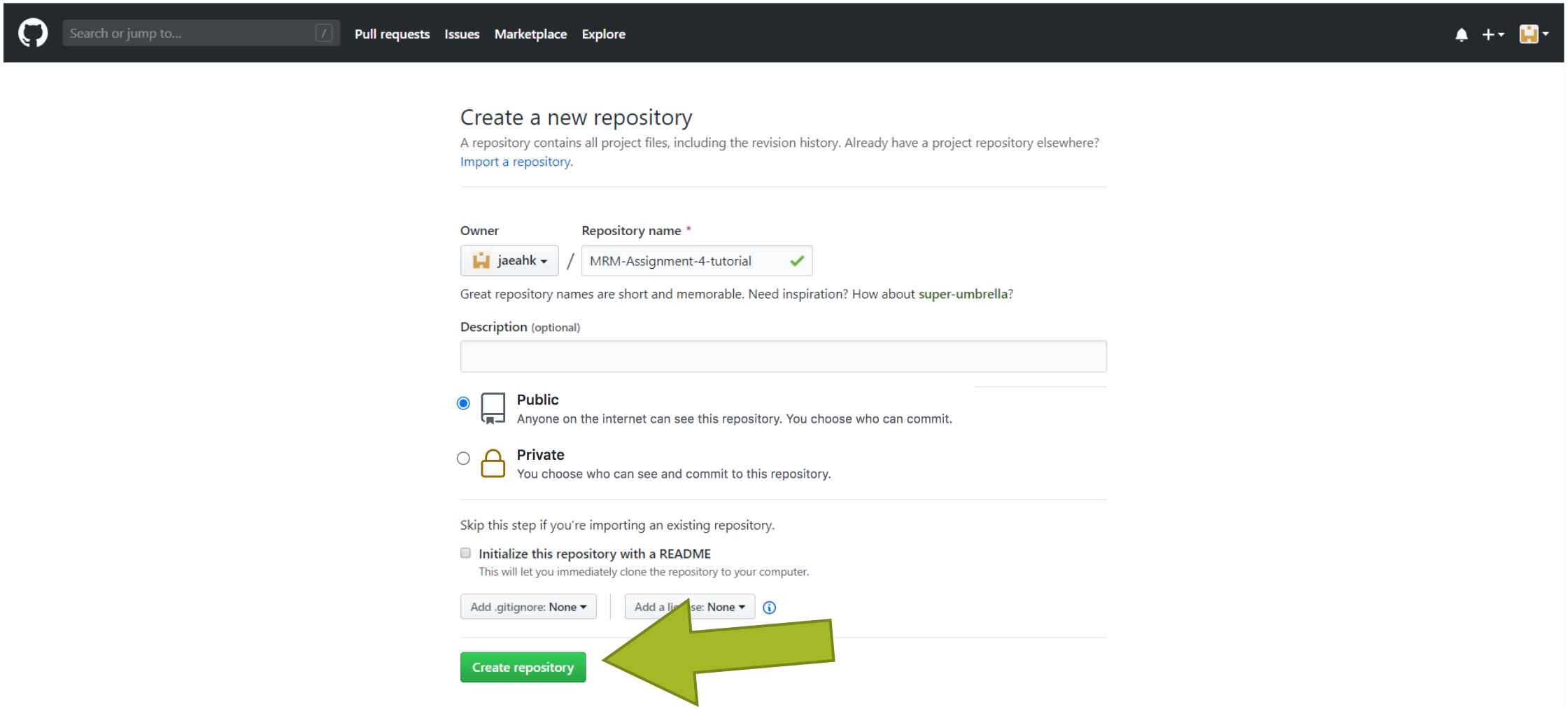
# Setting up a GitHub repository



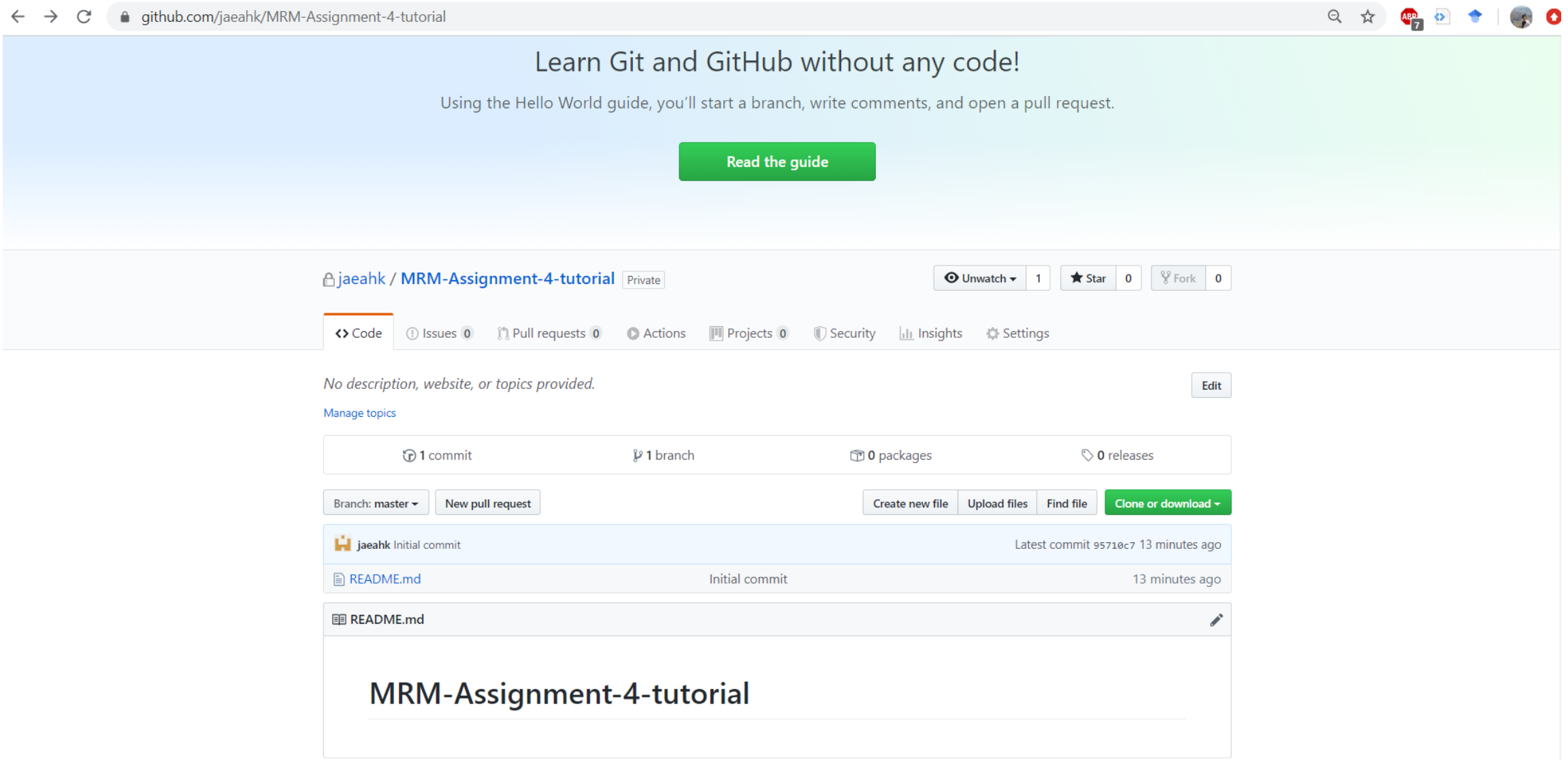
# Setting up a GitHub repository



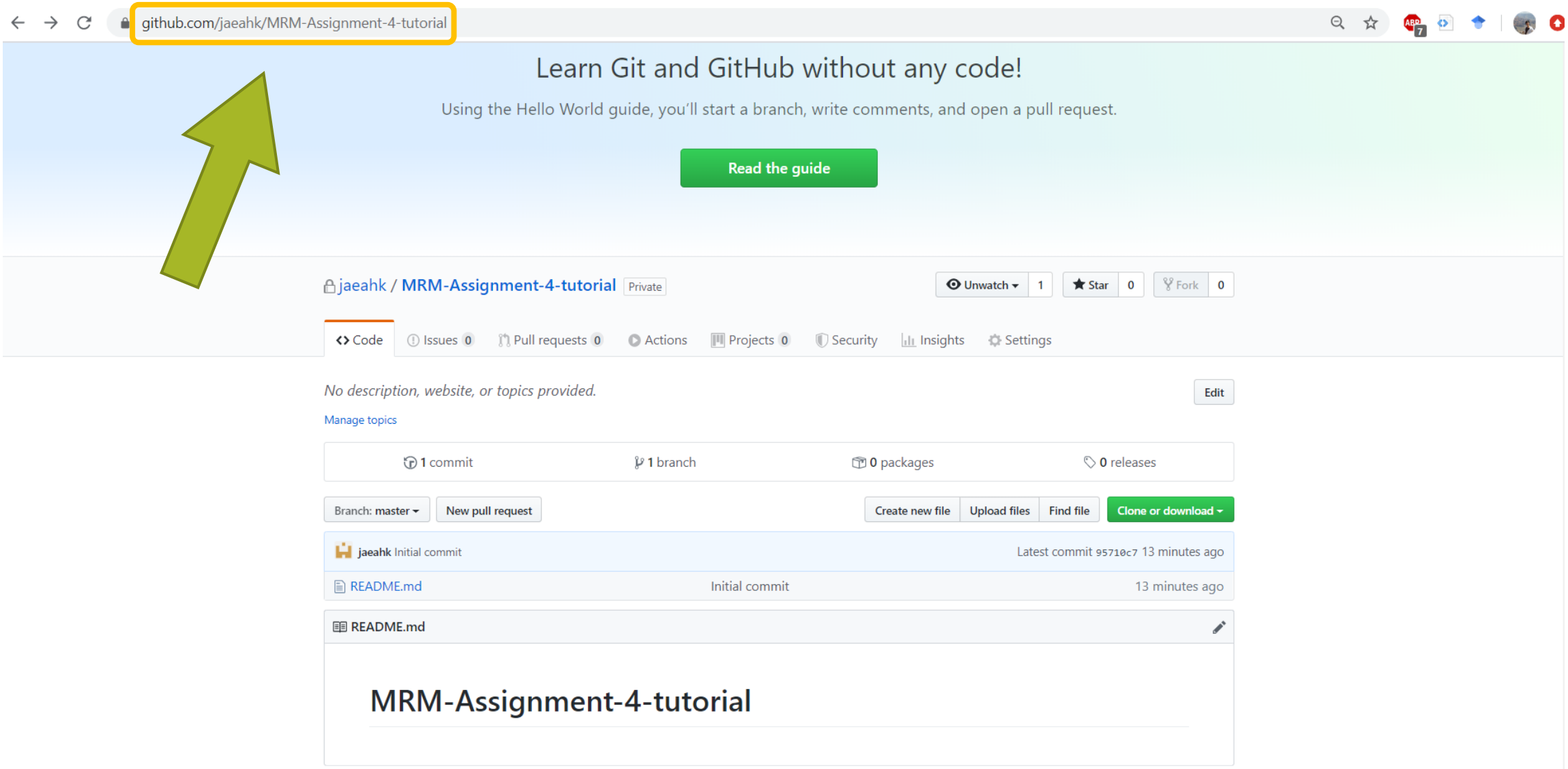
# Setting up a GitHub repository



# Setting up a GitHub repository



# Cloning repository onto local machine/cloud



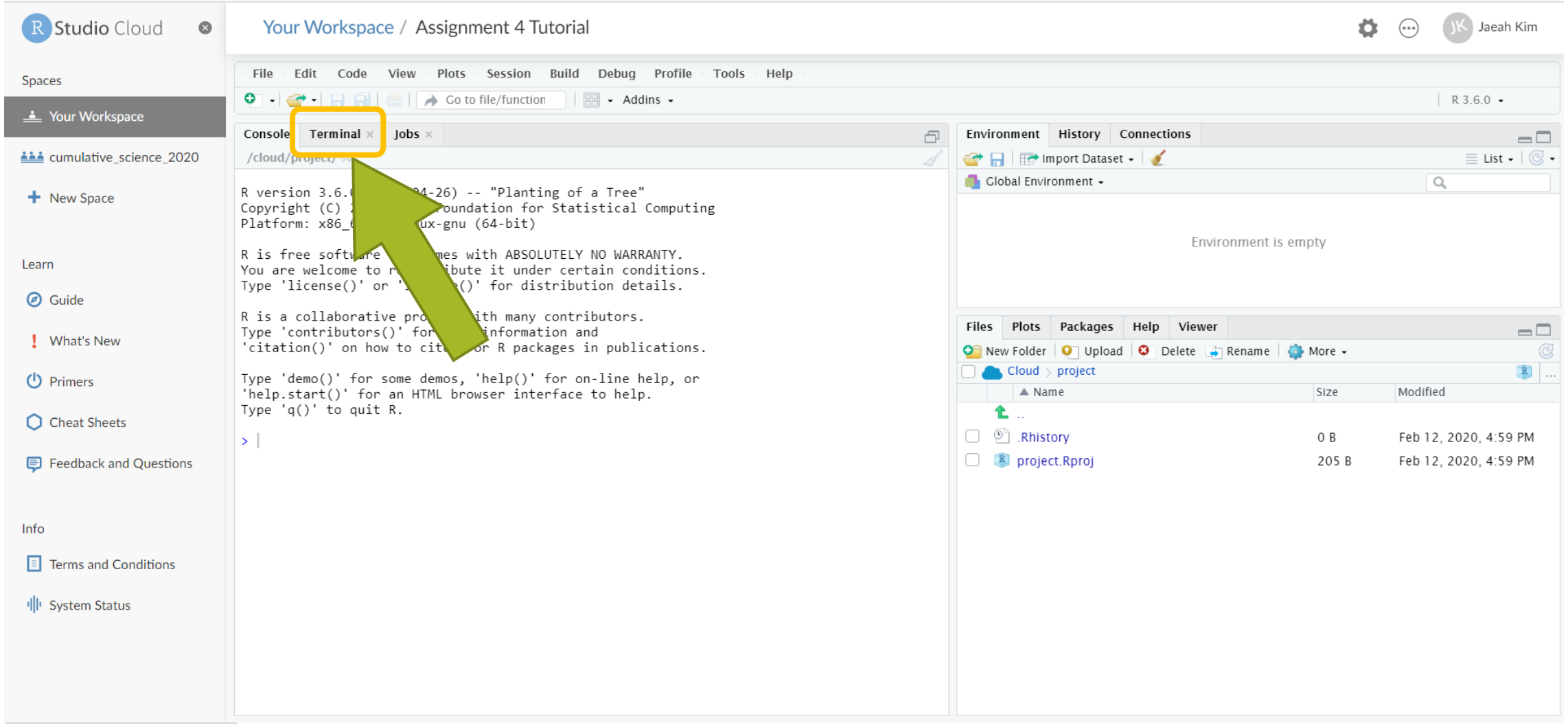
# How do you interact with git?

- At the command line in Terminal:

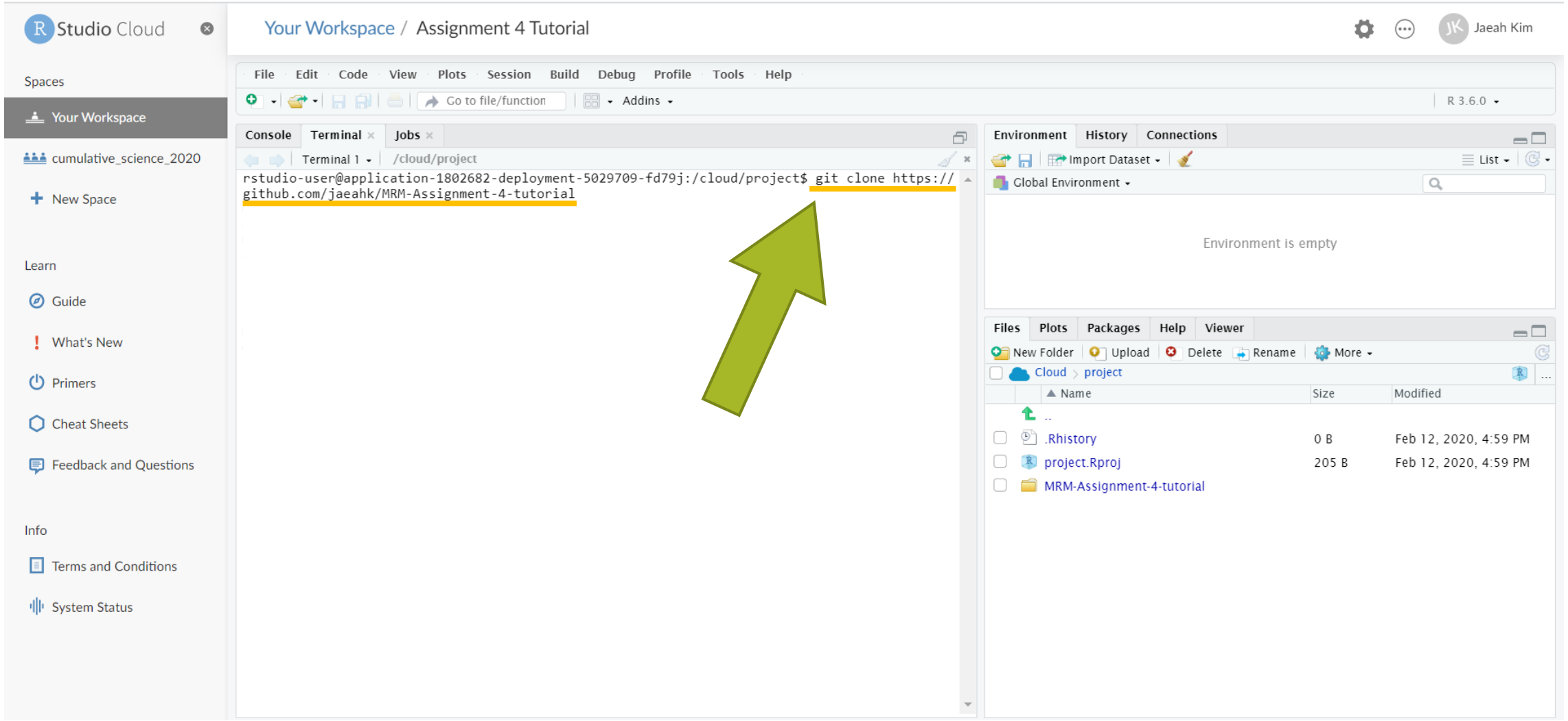
```
git <VERB> <ARGS>
```

- Various GUIs

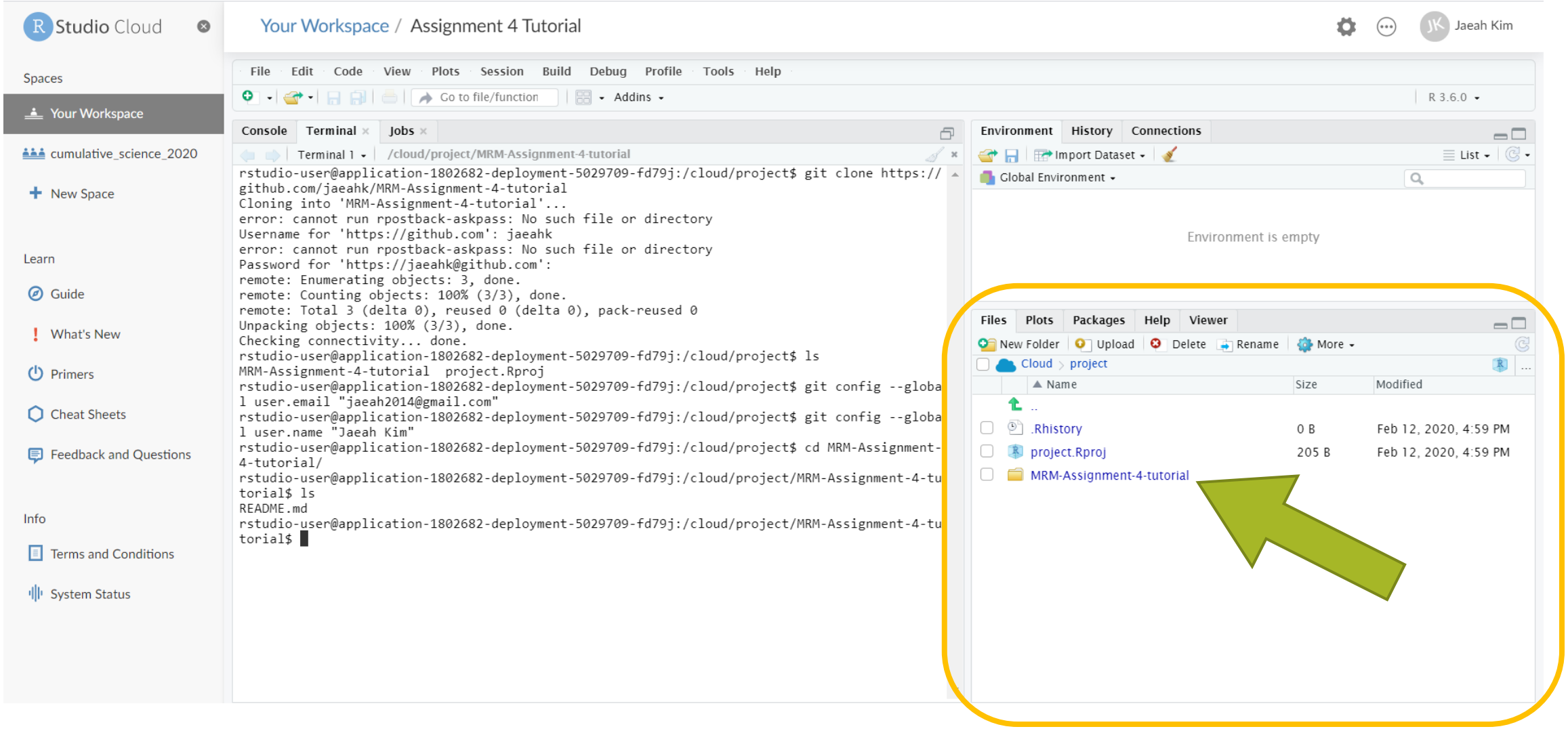
# Cloning repository onto local machine/cloud



# Cloning repository onto local machine/cloud

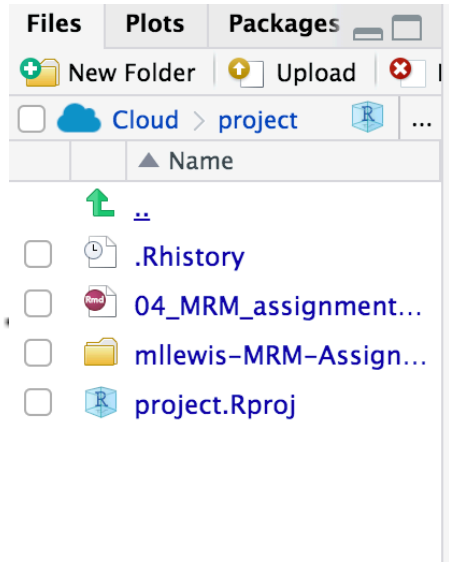


# Navigating to repository (in file explorer)



# Some basic Linux commands

Your place in the Rstudio visual directory and the Terminal are not the same!




In the Terminal:

**cd** – change your current directory

```
MRMSTUDENT$ cd mllewis-MRM-Assignment
```

**ls** – shows you the files in your directory

```
MRMSTUDENT$ ls
README.md  filter_flamingo_molly.jpg
```

# New R function: clean_names()

- In the janitor package
- Cleans the names of the variables in a data frame
- By default, does “snake_case”

```
# Create a data.frame with dirty names
test_df <- as.data.frame(matrix(ncol = 6))
names(test_df) <- c("firstName", "ábc@!*", "% successful (2009)",
                    "REPEAT VALUE", "REPEAT VALUE", "")
```

Clean the variable names, returning a data.frame:

```
test_df %>%
  clean_names()
#>   first_name abc percent_successful_2009 repeat_value repeat_value_2  x
#> 1         NA  NA                      NA           NA             NA NA
```

# Assignment 4

- Exercise 1-2 involve writing R code to reproduce someone numbers from an existing paper
- Exercises 3-10 involve using git and Github
- As part of your assignment, only need to include something in your .Rmd when prompted
- Use the remaining time today to get started on the assignment