Workshop: Introduction to Git and GitHub
Part 4: GitHub

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Reference

- This workshop draws extensively on Scott Chacon and Ben Straub (2021), *ProGit*, Version 2.1.295, 2021-02-26.

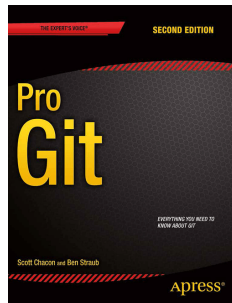- Like the book, this workshop carries the CC BY-NC-SA 3.0 license.

Figure 1

GitHub tour

Exercise 1: A pull request inside a repo

Exercise 1 (a)

1. Log into GitHub and clone the following repository (you have to be a collaborator):

(SSH)

```
$ git clone git@github.com:jolyphil/demorepo
```

(HTTPS)

```
$ git clone https://github.com/jolyphil/demorepo
```

2. Open the repository on your computer.

3. Create and switch to a new branch named with your initials.

```
$ git checkout -b pj
```

Exercise 1 (b)

4. Create a new script (R or Stata) that loads `data/auto.dta` and generates a PNG graph from it (e.g., `scritps/pj.do`).

5. With this script, export a PNG graph to the `figures` folder (e.g., `figures/pj.png`).

6. Modify `paper/results.md` so that your graph will appear under your initials.

6. Stage your changes.

```
$ git add scripts/pj.do
$ git add figures/pj.png
$ git add paper/results.md
```

7. Commit your changes.

```
$ git commit -m "Add a nicer graph"
```

Exercise 1 (c)

8. Push your branch to GitHub.

```
$ git push origin pj
```

9. Start tracking the remote branch.

```
$ git branch -u origin/pj
```

10. Check the repo on GitHub.

11. Click on "branches", select your branch, and create a pull request.

Exercise 2: A fork and pull request with a public repo

Exercise 2 (a)

1. Log into GitHub and go to the following repository:

```
https://github.com/jolyphil/berlin
```

2. Fork the repository.

3. Clone your fork on your computer.

(SSH)

```
$ git clone git@github.com:<user>/berlin
```

(HTTPS)

```
$ git clone https://github.com/<user>/berlin
```

4. Open the repository on your computer.

Exercise 2 (b)

5. Create and switch to a new branch named with your initials.

```
$ git checkout -b pj
```

6. Modify README.md by adding a new place.

7. Stage and commit your changes.

```
$ git add README.md
$ git commit -m "Add a new place"
```

8. Push your changes to a remote branch.

```
$ git push origin pj
```

9. Start tracking the remote branch.

```
$ git branch -u origin/pj
```

Exercise 2 (c)

10. Log into GitHub.

11. Create a pull request `jolyphil:main <-- <user>:<branch>`.

Questions? Comments? Thank You!