Introductory Exercise

Temporal Ecology Lab

September 19, 2025

- Do the steps in order.

- Use only the Git Bash terminal and GitHub for steps 1 onward, except for running some R scripts in step 5 which is to be done by any R code editing application and R.

- Make a file listing all commands used in the Git Bash terminal with comments, excluding non-modifying commands such as 'dir', 'ls', 'git status', etc.

- Using File Explorer, Notepad, or any file viewer application to view files, without editing, is allowed.

- Unless stated otherwise, run all scripts on the repository working directory

0   Set up Git and GitHub

1   Set up repository for exercise

1. Make a local repository

2. Extract files from the provided sandbox.zip file

3. Move the unzipped contents to the local repository

4. Make a .gitignore file and make Git ignore .rds files

5. Make Git ignore .synctex.gz files

6. Make Git ignore .log files

7. Make Git ignore the large analyses/output/phen_proj.csv file

8. Commit changes as 'set up repo'

9. Make a remote private repository named 'sandbox' on GitHub

10. Set the remote repository on GitHub as the remote upstream repository of the local repository

11. Push changes to the remote repository

2 Make a branch with changes

1. Make a branch called 'playground'

2. Make the following changes

   - Remove the folder analyses/cleaning/
   - Remove the file analyses/figures/egret_contmap.pdf
   - Remove the file analyses/output/egretclean.csv
   - Append a new line containing 'analyses/output/checking' to .gitignore

3. Commit these changes as 'cleared out repo for bcvinvar and survin'

3 Make changes to master branch

1. Make the following changes

   - Remove the folder data/scrapedEgret/
   - Remove the folder analyses/input/egretScraping/
   - Remove the folder analyses/cleaning/
   - Remove the file analyses/figures/egret_contmap.pdf
   - Remove the file analyses/output/egretclean.csv

2. Commit these changes as 'removed egret files'

4 Make both branches up to date

1. Run 'git push sandbox playground:master' (NOTE: This is an irregular use of git push and is just used here for testing purposes)

2. Rebase the commit in the playground branch to the local master branch

3. Merge the changes in the master branch to the remote master branch, name the merge commit as 'unfortunate timing'

4. Push the changes in both local branches to their corresponding remote branches

5 Prepare for checking

1. Do the following in the local master branch:

   (a) Run the script analyses/check.sh

   (b) Add lines in analyses/check_master.R to automatically set the working directory to the analyses folder in the local repository

   (c) Run analyses/check_master.R

   (d) Run analyses/output/checking/check_master.sh

2. Do the following in the local playground branch:

(a) Add lines in analyses/check_playground.R to automatically set the working directory to the analyses folder in the local repository

(b) Run analyses/check_playground.R

(c) Run analyses/output/checking/check_playground.sh

3. Do the following in the local master branch:

(a) Rename the analyses/output/checking folder as analyses/output/for_checking

(b) Commit all changes in the local master branch as 'prepared for checking'

4. Invite the person checking this exercise as a collaborator to the remote repository 'sandbox' over at GitHub

5. Send an email informing them the exercise is finished with the text file of commands used