**ESM 206 Lab Week 7 Part 1 (git collab)**

Collaborating in a git version-controlled R Project (two collaborators, both pushing to main)

1. Establish student pairs (make sure you know your GitHub email, username and pw)
2. Students: remember who is the “starter” and who is “collaborator” in your group
3. **Starter:** **Create a new version controlled project, make an update**
   1. Open github
   2. Create a new repo called week-7-collab (with a ReadMe)
   3. Clone (click green code button, copy URL)
   4. Open RStudio > New Project > Version Control > Git > (paste link) > create new
   5. Create a new .Rmd, delete everything below the first code chunk
   6. Add a line of text in your .Rmd like “Hi partner!”
   7. Save the .Rmd as **git\_test.Rmd** (you don’t need to knit it)
   8. Stage, commit & push all changes back to GitHub
4. **Starter: Add a contributor**
   1. Go back to your week-7-collab repo in GitHub
   2. Go to Settings > Manage access > (Enter password) > Invite collaborator > Enter *Collaborator*’s username or email
5. **Collaborator: Accept invitation & clone repo, make an update**
   1. Check your email. You should receive the invitation to join the repo. Accept.
   2. Go to the repo on GitHub, and Clone (click green code button, copy URL)
   3. Open RStudio > New Project > Version Control > Git > (paste link) > create new
   4. Press PULL just in case
   5. In the project, open the **git\_test.Rmd** by clicking on it in the File tab
   6. Add a new line to the .Rmd with a nice note below the line your partner added
   7. Add two separate code chunks (name one with your name, one with your partner’s name), separated by a few lines
   8. Save the .Rmd, then stage, commit, pull & push
   9. Check that the updates are stored on GitHub
6. **Starter: Pull & add something new to the .Rmd**
   1. In your week-7-collab in RStudio, PULL to get remote updates
   2. Open git\_test.Rmd and see updated text
   3. Add a new line of code to the .Rmd in the code chunk with your name
   4. Stage, commit, pull, then push
7. **Collaborator: Pull & add something new to the .Rmd**
   1. In your week-7-collab in RStudio, add some new code in the code chunk with your name
   2. Add a new line of text to the .Rmd
   3. Stage, commit, pull, then push
8. **Both:** Explore changes, history, commits, blame on GitHub!