

# Lab 04

## Team workflow and spatial data

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# Announcements

- Carefully review feedback given on past assignments
- Continue practicing with `dplyr` and `ggplot2` functions
- Exam 1 will go out on Friday

# Today's goals

- Practice collaboration using the data science workflow
- Develop effective spatial visualizations to answer research questions

# Lab 04

- If you have not done so already, join our GitHub organization. You should have received an invite email, provided you completed the survey and gave your correct GitHub username.
- A team repo has already been created for you and your teammates. Navigate to <https://github.com/sta199-sp21-003> and look for your repo named `lab_04-  
<team name>`.
  - If you cannot find your lab 04 repository, verify your GitHub username in the CSV file on Slack is correct. If it is incorrect or missing, message the instructor with your team name and GitHub username immediately.
- If no one from your team is here, let your TAs know once they are done explaining the lab.
- The directions are available on the course website at [http://www2.stat.duke.edu/courses/Spring21/sta199.003/labs/lab\\_04.html](http://www2.stat.duke.edu/courses/Spring21/sta199.003/labs/lab_04.html).
- This is a team-based lab. Carefully follow the steps as you work through this lab.

# Tips for successful teamwork

1. Start early
2. Communicate early and often. Set up a private group direct message with your teammates in Slack.
3. Use the GitHub app in Slack to get notifications when changes happen to your team repository. Add the below command to your private group direct message.

```
/github subscribe sta199-sp21-003/<repo_name>
```

To get help on all the GitHub app features in Slack, enter the below command in your private group direct message.

```
/github
```

4. Contribute and participate throughout the assignment's duration.

# Lab 04 submission

- Only submit 1 PDF per team to Gradescope.
- Include every team member's name in the Gradescope submission. Also verify every team member's name is in the PDF.
- As before, identify which problems are on which page(s) in Gradescope. Associate the "Overall" section with the first page of your PDF.