Collaborating on GitHub Tutorial

Instructions for

Breakout 1: Connecting with your partner

- Say hello and introduce yourself
- Connect either on Slack (direct messaging), Zoom chat (make sure to select your partner, not send messages to everyone), phone, whatever you prefer
- Practice sharing screen (choose to share Desktop so you can share as you jump between Rstudio and your web browser)
- Decide who will be Partner 1 and who will be Partner 2
- Exchange GitHub user names

Breakout 2: Create repo, clone it, and try making changes

 Work through sections 9.2 – 9.7 here: http://ohi-science.org/data-science-training/collaborating.html

Breakout 3: Create and resolve merge conflicts

 Work through sections 9.8 – 9.9 here: http://ohi-science.org/data-science-training/collaborating.html

Breakout 4: Set up your collaborative website

 Work through sections 9.11 – 9.12 here: http://ohi-science.org/data-science-training/collaborating.html

- Partner 2 add an image to your index.Rmd (talk Partner 1 through what you're doing or share your screen):
 - Search on google to find an image you like
 - On the image, right click and choose "Copy image address"
 - Add it to the .Rmd file with !()[paste_image_location_you_just_copied_here]
 - Pull stage commit push
 - Check that the image shows up on your website Remember address format for website:
 - my github repo: https://github.com/jules32/collab-research
 - my website url: https://jules32.github.io/collab-research/
 - note that the url starts with my username.github.io

• With your partner, do the following tasks. Each of you should work on one task at a time. Since we're working closely on the same document, talk to each other and have one person create a heading and a R chunk, and then sync; the other person can then create a heading and R chunk and sync, and then you can both work safely.

• Remember to make your commit messages useful!

• As you work, you may get merge conflicts. Resolve them

- Find all flights that:
 - Had an arrival delay of two or more hours
 - Flew to Houston (IAH or HOU)
 - Were operated by United, American, or Delta
 - Departed in summer (July, August, and September)
 - Arrived more than two hours late, but didn't leave late
 - Were delayed by at least an hour, but made up over 30 minutes in flight
 - Departed between midnight and 6am (inclusive)
- Another useful dplyr filtering helper is between(). What does it do?
 Can you use it to simplify the code needed to answer the previous challenges?

- If you have more time:
 - Add some plots: What interesting patterns can we explore in this dataset? Examples:
 - What is the relationship between the departure delays and arrival delays (do planes tend to catch up while underway)?
 - How to arrival delays compare between different airlines? Or destinations? Or days (or any combination of those)