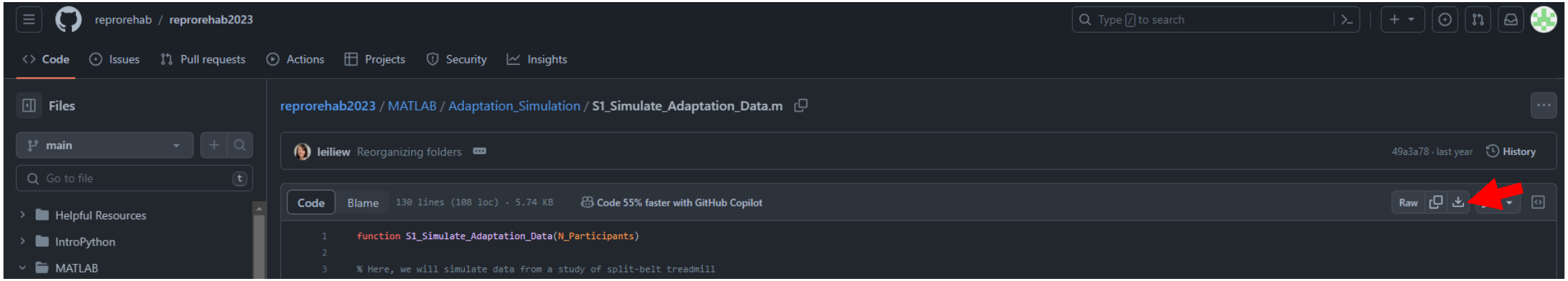
Week 3 Exercises

Setup

Open Dr. Finely's MATLAB code: *S1_Simulate_Adaptation_Data.m* by downloading the raw file and opening in matlab:



Verify that Dr. Finley's code successfully runs before proceeding

Matlab exercises – Check plots after each question

1. What happens when you set N_Participants to 16? 20?
2. Increase the amount of noise generated per generated sample. What does this do?

S1_Simulate_Adaptation_Data creates folders and csv files for each participants data with a unique name (ex: 20220912_S01).

3. Change both folder name and csv file to the following format:

   “2023_10_20_S_{Participant Number}_POD1”

   Change to POD2 after 10 participants

4. In Dr. Finely’s figure with all participant data, you’ll notice that the values for each plot’s y-axis perfectly align. Find what line of code does this and comment it out. What happens?

Github exercise

1. Add your modified code to the “Week3_Completed_Exercises” folder in the shared repository as:

“{Your_name}_S1_Simulate_Adaptation_Data.m”

(Hint: use week one’s activity as a guide)