

A background image of a mangrove landscape with green trees and their roots in shallow water under a blue sky with clouds.

OCN 390: Field Methods

Week 5

Getting Started in Arduino
and Breadboarding

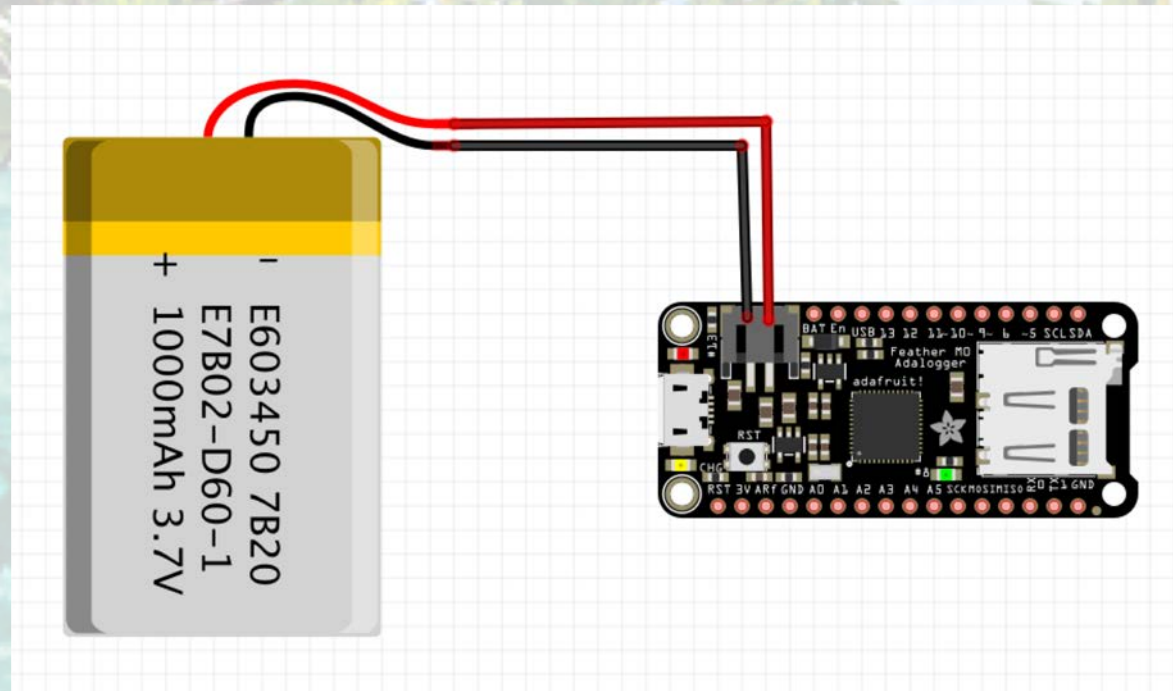
Outline

- Overview of block diagrams (wiring schematics)
- Overview of this week's assignment

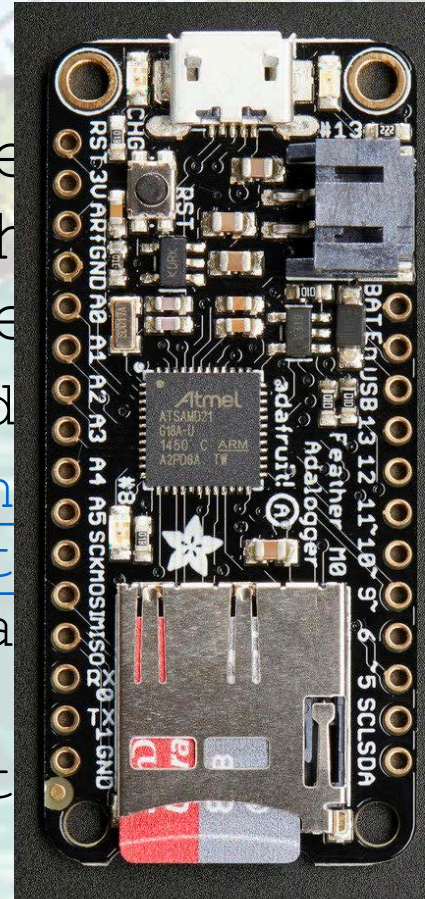
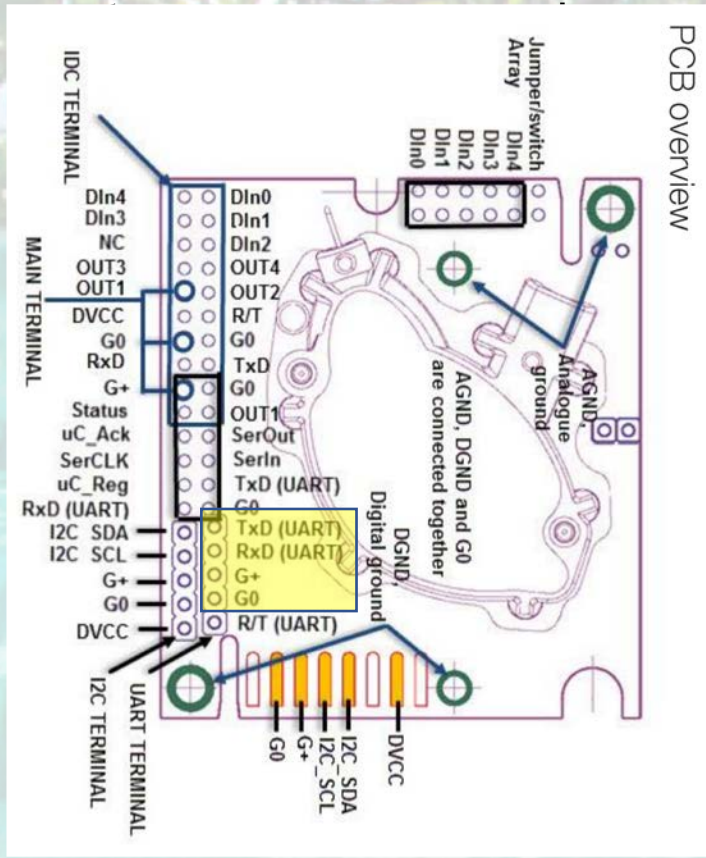
Wiring

- Note on Fritzing... it used to be free!

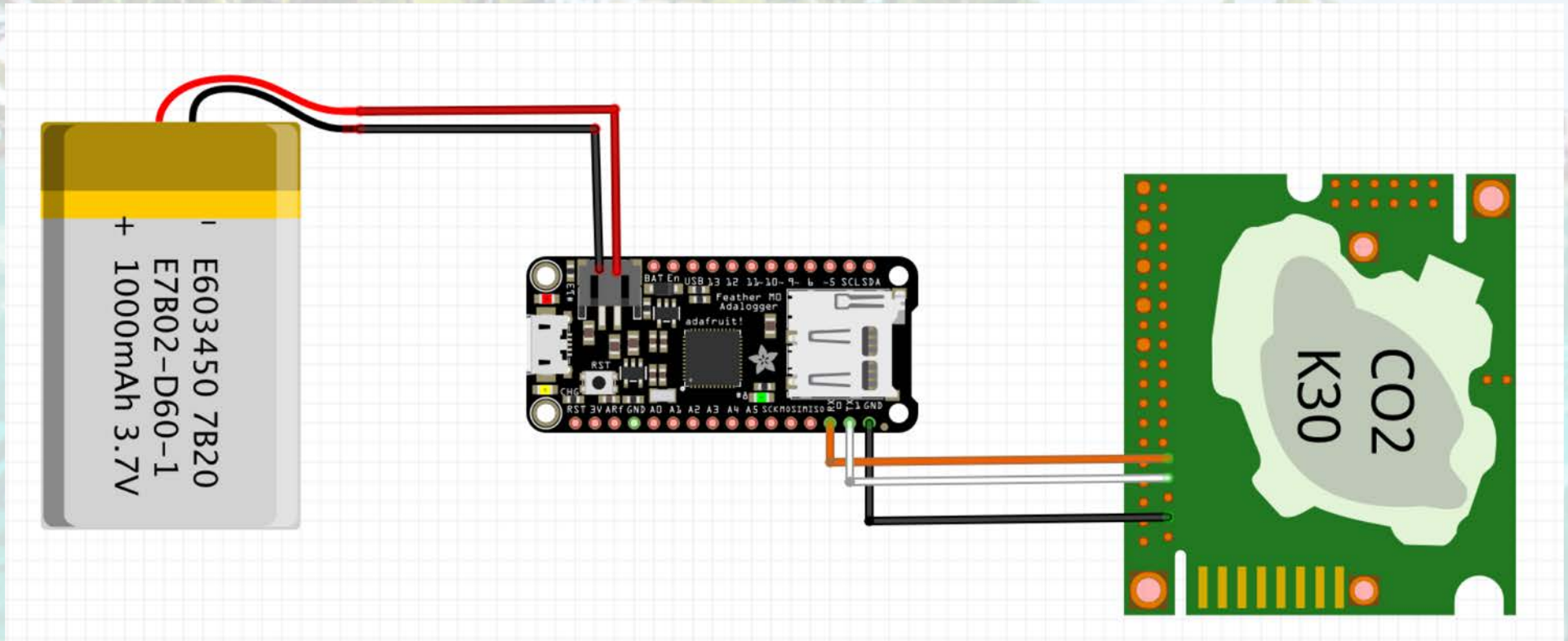
Wiring



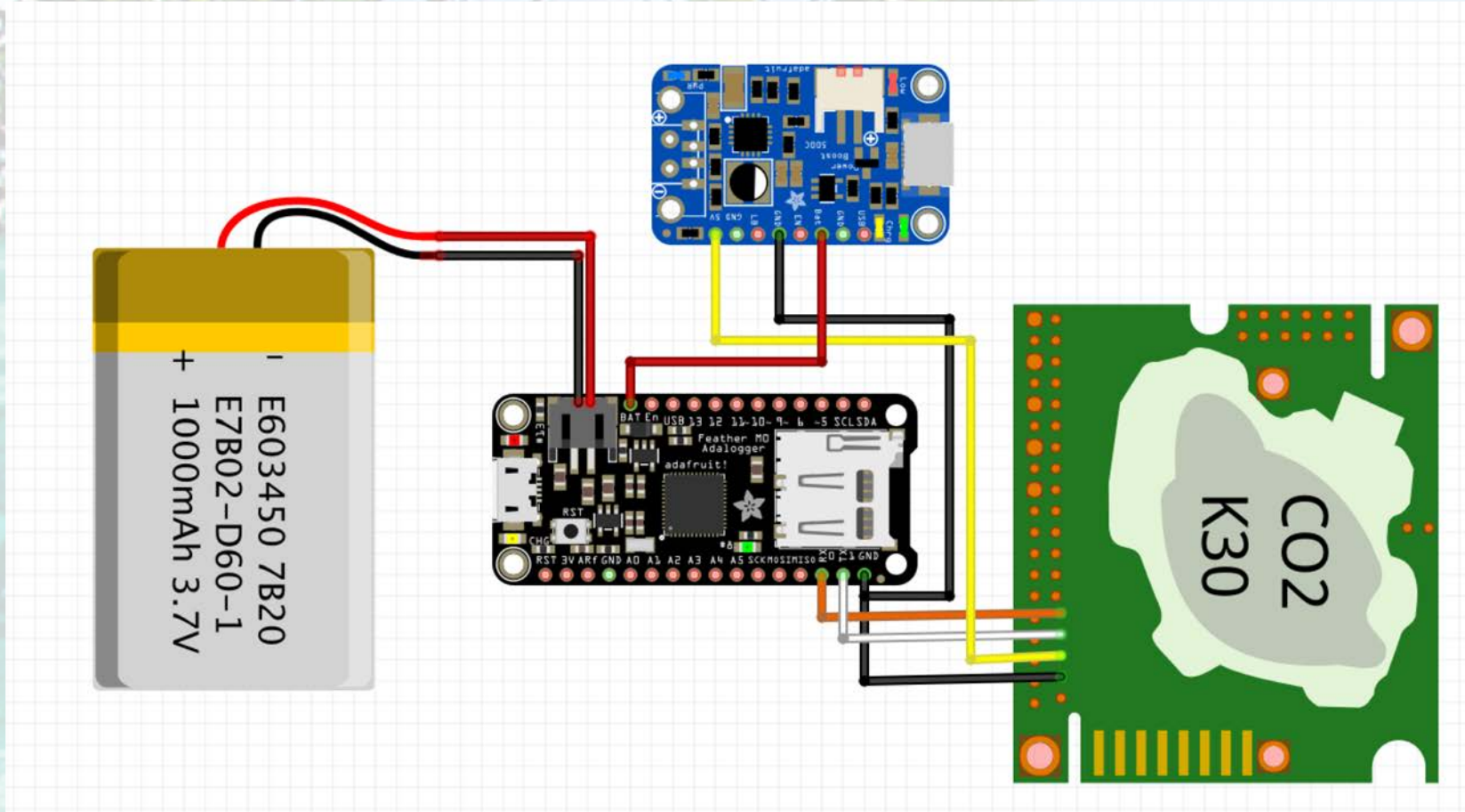
Assignment for (last) Friday



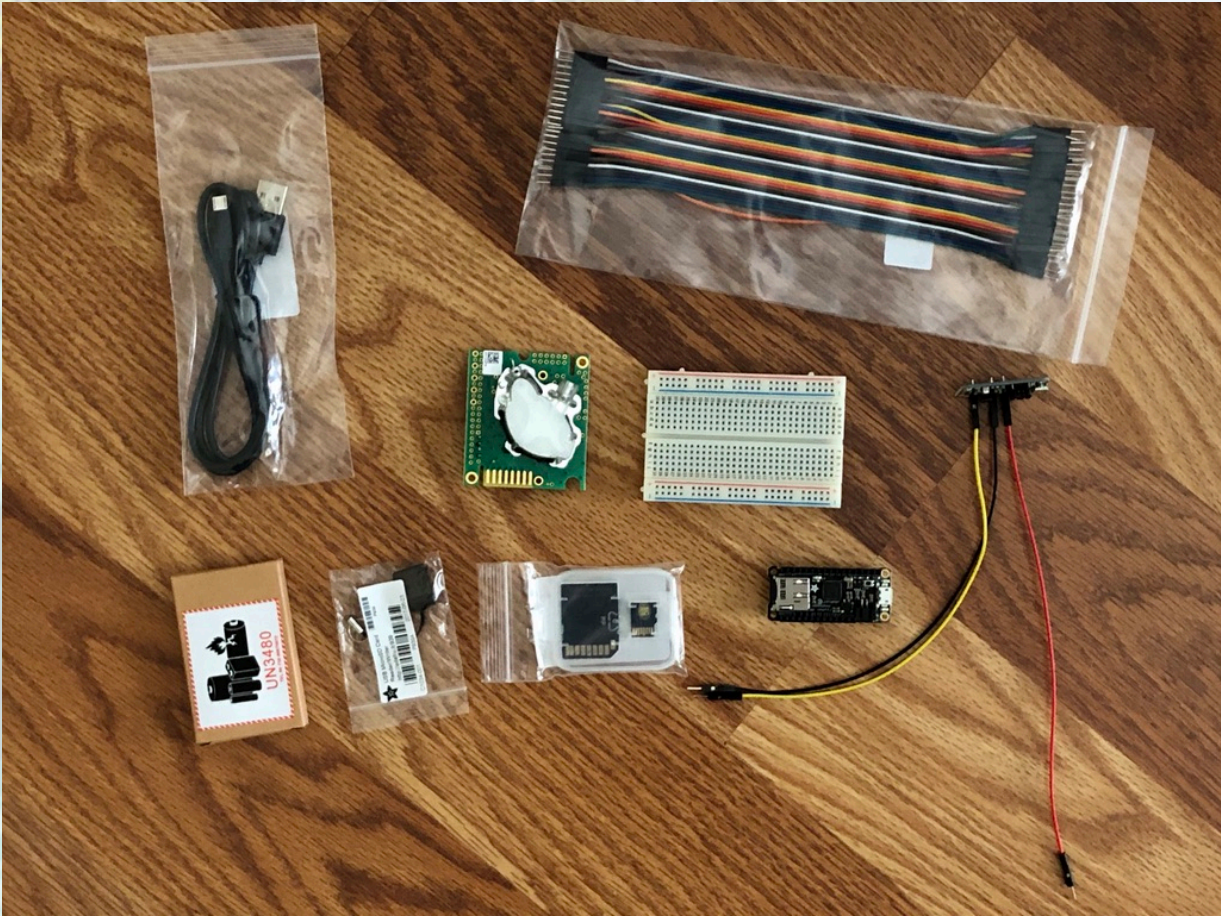
Wiring



Wiring



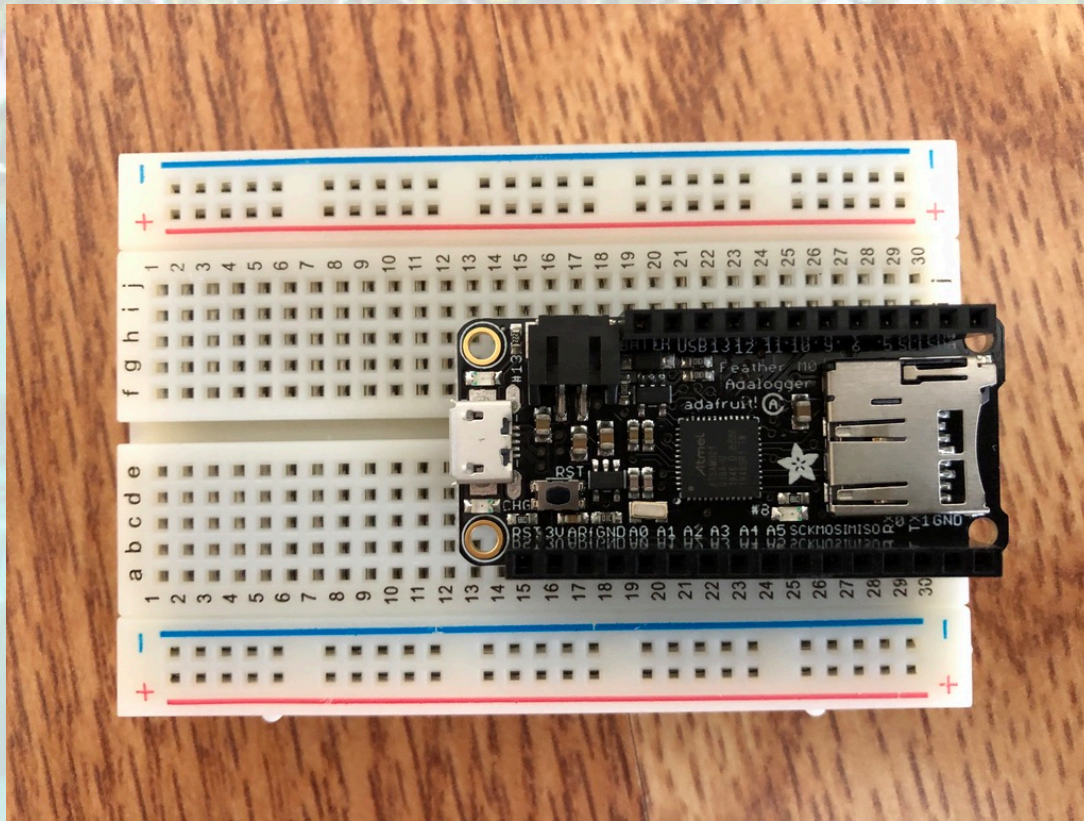
Parts



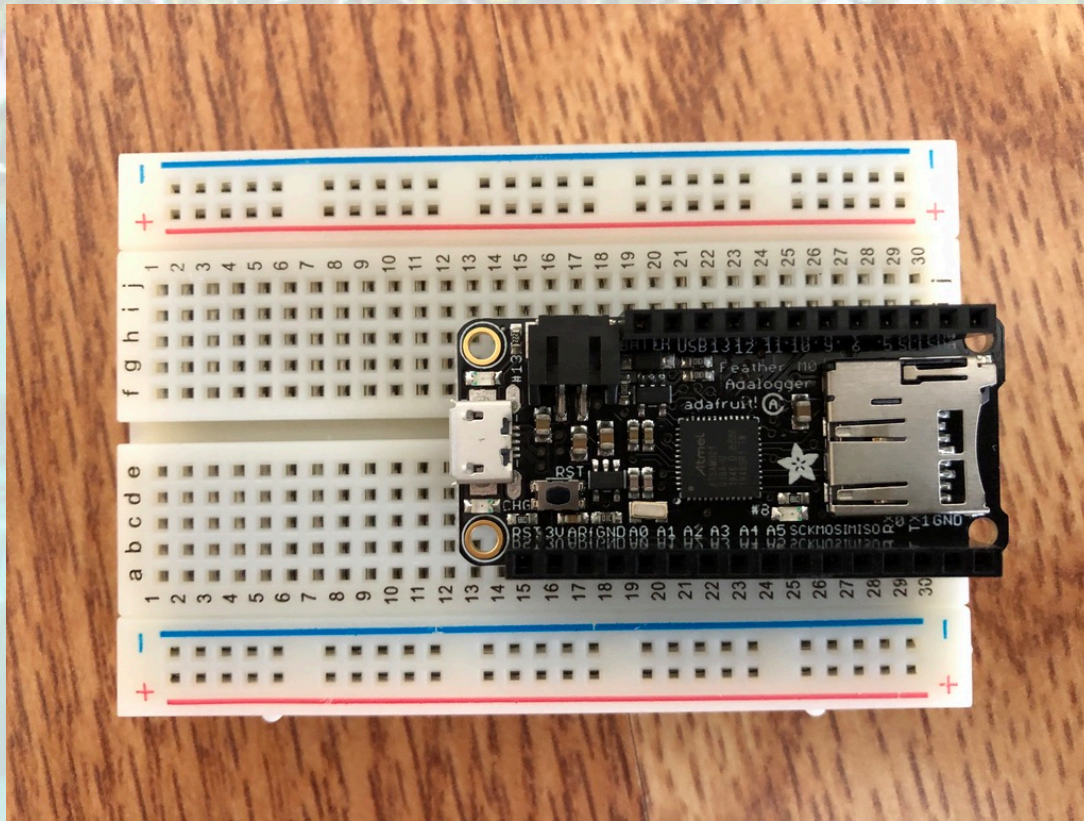
Place Adalogger on Breadboard



Place Adalogger on Breadboard



Place Adalogger on Breadboard



- Pay attention to which rows/columns are and aren't connected
- Plug USB cable in once and leave it plugged in. Connect/disconnect on computer side.
- Battery should only fit in in one orientation; make sure it aligns properly and do not put too much pressure on it when inserting/removing it.

This week's assignment

- Complete the Getting Started guide at https://github.com/uncw-ocean-field-methods/ocn390_2021spring/tree/main/Sensor-Dev
- *****When you get to Step 3, do NOT plug in the battery or USB cable!*****
- Upload the following things to Canvas by Sunday @ 11:59 pm:
 1. Journal
 2. Video of LED on Adalogger blinking (1 second on, 1 second off)
 3. Video of LED on Adalogger blinking (3 seconds on, 1 second off)
 4. Photo of breadboarded circuit (no battery, no USB cable connected, just red, black, yellow, orange, and white wires and all other parts on breadboard)
- Ask questions of me and Jack early in the week. I will not necessarily be able to respond to questions over the weekend; question deadline is noon on Friday!