Updates from last week:

All:

* Read about different image classification models. Come to our next meeting with a description of the model you suggest we use:
  + Yukun –
    - SVM
  + Belisha –
    - MobileNet (lightweight)
  + Yangtian –
    - Sequential (CNN)
  + Cate –
    - MobileNetV2

Yukun:

* Create the infrastructure to load data into a TensorFlow dataset.

Belisha & Yangtian:

* Look into data augmentation methods in TensorFlow that we might want to use with our dataset.
  + Scaling, rotating, flipping with TF

Cate:

* Look into strategies for dealing with class imbalance in datasets. See if TensorFlow has a black & white preprocessor

**\*A couple notes:**

* Yukun is setting up the pipeline to allow us to upload images into a tf dataset. Each of us will need to change the directory to where we have the data stored on our own machine. Data should be set up like this:
  + data\_dir
    - Train:
      * Edible
      * Poisonous
    - Test:
      * Edible
      * Poisonous
    - Validation:
      * Edible
      * Poisonous
* We should each be working on a different branch of the repo. Let’s decide today how we want to handle merges (if one person will be in charge or if anybody can approve it)

Upcoming work breakdown:

1. Create pipeline for data upload – Yukun
2. Data exploration and visualization - Cate
3. Data augmentation (including black & white) - Belisha
4. Building model – Belisha, Cate, Yukun
5. Results visualization - Belisha, Cate, Yukun
6. Results comparison – Yangtian
7. Website – Yangtian

\*My suggestion is that we share tasks 1, 2, 3, and 6 and then split off and create a couple different models that we work on independently.