Capstone Questions:

- What is your project about? What is the main question you want to answer?
This project is about creating a usable algorithm to determine the quality of a song using its spectrograph. The main question we're trying to answer is if there is a predictable way to find patterns in poor quality songs versus high-quality songs.

- What are the major milestones for your project?

1. Create ML Algorithm
    a. Gather training/testing data
    b. Label data (Mechanical turk?)
    c. Feature Engineering
        i. Using Colors
        ii. Dark vs. White
        iii. Others?
    d. Train the model
    e. Test/Revise algorithms
2. Create Website
    a. HTML/CSS stuff
    b. Database management with user song uploads
    c. Pretty stuff

Data Sources:
- My own music library
- Other people's music libraries

Analysis:
- Mainly error analysis on ML Algo:
    - f1 scores, precision/recall etc.
- Also analysis across which multi-class selection model is best for this task

Responsibilities:
Tom: ML Algorithm/Website stuff
Nathan: Database management, front-end website development, some ML

Obstacles: Data labelling, feature engineering, error analysis, website management, actually doing well

Success = Accuracy of ~80%, and a usable website

This Week:

- How to approach project with Mechanical Turk?
- Redundancy
- How to do stuff correctly?

Nathan read this:

https://www.reddit.com/r/xTrill/comments/6fre3q/spek_guide_2017_edition/?utm_source=reddit&utm_medium=usertext&utm_name=xTrill&utm_content=t5_386fy