### Milestone 2

### Admin

[Comprehensive Exam](https://docs.google.com/spreadsheets/d/1ltsp1PBKDw3H-gPnNVf7w-h5AtPBmDfMZe0EXsh4tmk/edit?skip_itp2_check=true#gid=0)

[Project Team Tracker](https://docs.google.com/spreadsheets/d/1NHs4aopXqqV2hdvF8EOPyFPq9fFTTObeCKKgKPNKYEI/edit?skip_itp2_check=true#gid=0)

[Eric Gilbert Calendar](https://calendar.google.com/calendar/u/0/selfsched?sstoken=UUY3X0FPX3lncG5IfGRlZmF1bHR8MjI2YjI3NWVhNWYwODliNWQ2MWQxMGYxYTczNjYzMTk&pli=1)

### Datasets

[xeno-canto](https://www.xeno-canto.org/)

[Avibase - The World Bird Database](https://avibase.bsc-eoc.org/avibase.jsp)

[kaggle-Bird songs from Europe (xeno-canto)](https://www.kaggle.com/monogenea/birdsongs-from-europe)

[kaggle-Cornell Birdcall Identification](https://www.kaggle.com/c/birdsong-recognition)

[kaggle-Xeno-Canto Bird Recordings Extended (A-M)](https://www.kaggle.com/rohanrao/xeno-canto-bird-recordings-extended-a-m)

[Claire's Google Drive](https://drive.google.com/drive/folders/1uE8FkUbzUfzdghgQkfiQu3C7dStGJGie)

[github-bird-songs](https://github.com/CICarlier/bird-songs)

### Audio Processing

[Audio Deep Learning Made Simple (Part 1)](https://towardsdatascience.com/audio-deep-learning-made-simple-part-1-state-of-the-art-techniques-da1d3dff2504)

[Audio Deep Learning Made Simple (Part 2)](https://towardsdatascience.com/audio-deep-learning-made-simple-part-2-why-mel-spectrograms-perform-better-aad889a93505)

[Audio Deep Learning Made Simple (Part 3)](https://towardsdatascience.com/audio-deep-learning-made-simple-part-3-data-preparation-and-augmentation-24c6e1f6b52)

[Notes on Music Information Retrieval](https://musicinformationretrieval.com/index.html)

[Python Audio](https://www.audiolabs-erlangen.de/resources/MIR/FMP/B/B_PythonAudio.html)

### ML

[Audio Deep Learning Made Simple: Sound Classification, Step-by-Step](https://towardsdatascience.com/audio-deep-learning-made-simple-sound-classification-step-by-step-cebc936bbe5)

[Audio Deep Learning Made Simple: Automatic Speech Recognition (ASR)](https://towardsdatascience.com/audio-deep-learning-made-simple-automatic-speech-recognition-asr-how-it-works-716cfce4c706)

[Audio signal feature extraction and clustering](https://medium.com/heuristics/audio-signal-feature-extraction-and-clustering-935319d2225)

[Sound Classification using Deep Learning](https://mikesmales.medium.com/sound-classification-using-deep-learning-8bc2aa1990b7)

### Papers

[Audio-only bird classification using unsupervised feature learning](https://core.ac.uk/download/pdf/30341728.pdf)

[Classification of bird sounds improved by unsupervised feature learning](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4106198/)

[Justin Salamon-Adobe](https://www.justinsalamon.com/publications.html)

### Visualization

[Audio t-SNE](https://ml4a.github.io/guides/AudioTSNEViewer/)