﻿This project uses a Convolutional Neural Network (CNN) to classify audio clips of musical chords as major or minor, based on their spectrograms.

The .ipynb file and project report have been uploaded to Gradescope, but the full project folder, containing the audio dataset as well as all other files, can be found at this link:

https://drive.google.com/drive/folders/1--VuhiYRC3XVb4awuAbtwCA3A2ZNZBEa?usp=drive\_link  
  
The training data is in the folder “training” within the project folder “chord\_trainer”. The data is split between several folders in the format [Chord root]\_[chord type]. Example - “D\_minor”

To get started:

1. Download and move the project folder chord\_trainer into your main Google Drive directory.

2. Open the notebook chord\_train.ipynb in Google Colab. This notebook should be in the chord\_trainer directory.

3. Enable GPU runtime.

4. Run all cells (may be prompted to give Colab drive access)