



Problem Description:

ChordReader is an application that recognize notes and chords played on a piano.

For people working in music business or music learner, chords and notes are what they often deal with. Sometimes it is hard for a beginning music or piano learner to recognize the notes in a piano chord, so it would be convenient for them to have a tool to help recognizing different chords. Inspired by a talk with new piano learners, we created ChordReader!

Use Example:

- Beginning music theory learner who wants to practice knowledge about chords. By using ChordReader, it is easier and convenient for music learner to get the name of each notes consisted in a piano chord.
- Beginning piano learner who wants to know how to play a chord through self teaching. ChordReader can analyze the audio input and give the information about which piano key is played to create this chord, which helps learner to be familiar with the relationship between each note and corresponding piano keys.
- Can be integrated in other music analysis tools in terms of recognizing piano chords through a piece of music.

Future Works:

- Noise from surrounding environment and noise created from recording using microphone.
- Detect non-standard sound/chord, for example, when random keys (more than one octave) were played simultaneously.
- Mobile application.

Chord Reader CSE 481 Sound Capstone, Autumn 2016













