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R2B09 ACTIVITY LOG N02 in input dataset/Dianne/Sampler.pv
* Dianne -> acronym for Dataset Initiation Algorithm for Nominal Note Extrapolation. The project constructs the initial chord dataset.
* No person named Dianne made any of this code.
* This file randomly samples from the chord dataset. Source code begins below. Language is Python 3.6.2.
import scale
import chord
import ChordTypes
import random
listOfChordsOfChordTypes = []
listOfChords = []
sampleChords = []
flatSampleChords = []
ct = []
SAMPLE SIZE = 3 # temporary value for now
def chordgen():
    for rootNote in scale.TWELVE_NOTE_SCALE:
        for chordType in scale.CHORD_TYPES:
            listOfChords.append(chord.Chord(rootNote, chordType))
    print(listOfChords)
def sample(SAMPLE SIZE):
    # Makes list of list of chords. The top level list is broken down into lists of chords grouped by type
    for type in range(0, ChordTypes.NUMBER_OF_CHORD_TYPES):
        listOfChordsOfChordTypes.append([])
        for chord in range(0, ChordTypes.NUMBER_OF_CHORDS, ChordTypes.NUMBER_OF_CHORD_TYPES):
            listOfChordsOfChordTypes[type].append(listOfChords[chord + type])
    print(listOfChordsOfChordTypes)
    print(len(listOfChordsOfChordTypes))
    for ctListIndex in range(len(list0fChords0fChordTypes)):
        sampleChords.append(random.sample(listOfChordsOfChordTypes[ctListIndex], SAMPLE SIZE))
    flatSampleChords = [_chord_ for _chordList_ in sampleChords for _chord_ in _chordList_]
    print(sampleChords)
    print(flatSampleChords)
    print("Sample size:", str(len(flatSampleChords)), "(", str(ChordTypes.NUMBER_OF_CHORD_TYPES), "chord types *",
SAMPLE_SIZE, "chords per type)")
if __name__ == "__main__":
    chordgen()
    if SAMPLE_SIZE < 12:</pre>
        sample(SAMPLE_SIZE)
    else:
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print("Sample invalid.")