AAI-511-IN2_Final Project Team-13_Music_Composer

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1 Title of the Project

!!! The Neural Ear: Unearth the Composer of your Music !!!

1.1 Author Details

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- **Course Name:** Neural Networks and Deep Learning
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Description: The goal of this project is to create a deep-learning-based system that can classify the musical composer of the musical score. The project will only explore four well-known individuals in Western classical music - `Bach`, `Beethoven`, `Chopin`, and `Mozart`!

Objectives: The project will utilize the midi_classic_music dataset available from Kaggle that hosted 3929 midi files of classical musical scores with 175 different composers including Bach, Beethoven, Mozart, Brahms, Chopin, Tschaikovsky, Strauss, Stravinski, Prokofiev, Rachmaninov, Bernstein, Bartok, Handel, Ravel, Scriabin, etc. The challenge will be to build a good classification model with two state-of-the-art deep learning models: Convolution Neural Networks (CNN) and Long Short-Term Memory Networks (LSTM) as these two models were chosen for their ability to learn spatial patterns and temporal patterns from music.

> The MIDI file is not an audio recording. Rather, it's a recipe to an audio that explains what notes to play, when to play etc. It is a set of instructions such as pitch, note, tempo etc., that contain musical performance data used for electronic music production.

Data Source: Kaggle - https://www.kaggle.com/datasets/blanderbuss/midi-classic-music/data

> As mentioned in the Dataset description in Kaggle, it contains 3929 midi files of classical works by 175 composers including Bach, Beethoven, Mozart, Brahms, Chopin, Tchaikovsky, Strauss, Stravinski, Prokofiev, Rachmaninov, Bernstein, Bartok, Handel, Ravel, Scriabin, and others.

Number of Variables: Because the dataset is MIDI, and thus not a tabular CSV, there are not "columns" or "variables" to speak of. Rather, the information is encoded in the MIDI format, and from the MIDI files, the following features can be extracted: - Note pitch values - Note onset (start time) and offset (duration) - Tempo - Velocity (intensity of note) - Time signature & key signature (when available) - Chord progressions and patterns

The class label (i.e. composer name) is typically inferred from the file name or folder structure of each MIDI file.

2 Import libraries and packages as needed

```
[ ]: !pip install pretty-midi
```

```
Collecting pretty-midi
  Downloading pretty_midi-0.2.10.tar.gz (5.6 MB)
                              5.6/5.6 MB
44.7 MB/s eta 0:00:0000:0100:01
  Preparing metadata (setup.py) … done
Requirement already satisfied: numpy>=1.7.0 in /usr/local/lib/python3.11/dist-
packages (from pretty-midi) (1.26.4)
Collecting mido>=1.1.16 (from pretty-midi)
  Downloading mido-1.3.3-py3-none-any.whl.metadata (6.4 kB)
Requirement already satisfied: six in /usr/local/lib/python3.11/dist-packages
(from pretty-midi) (1.17.0)
Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-
packages (from mido>=1.1.16->pretty-midi) (25.0)
Requirement already satisfied: mkl_fft in /usr/local/lib/python3.11/dist-
packages (from numpy>=1.7.0->pretty-midi) (1.3.8)
Requirement already satisfied: mkl_random in /usr/local/lib/python3.11/dist-
packages (from numpy>=1.7.0->pretty-midi) (1.2.4)
Requirement already satisfied: mkl_umath in /usr/local/lib/python3.11/dist-
packages (from numpy>=1.7.0->pretty-midi) (0.1.1)
Requirement already satisfied: mkl in /usr/local/lib/python3.11/dist-packages
(from numpy>=1.7.0->pretty-midi) (2025.2.0)
Requirement already satisfied: tbb4py in /usr/local/lib/python3.11/dist-packages
(from numpy>=1.7.0->pretty-midi) (2022.2.0)
Requirement already satisfied: mkl-service in /usr/local/lib/python3.11/dist-
packages (from numpy>=1.7.0->pretty-midi) (2.4.1)
Requirement already satisfied: intel-openmp<2026,>=2024 in
/usr/local/lib/python3.11/dist-packages (from mkl->numpy>=1.7.0->pretty-midi)
(2024.2.0)
Requirement already satisfied: tbb==2022.* in /usr/local/lib/python3.11/dist-
packages (from mkl->numpy>=1.7.0->pretty-midi) (2022.2.0)
Requirement already satisfied: tcmlib==1.* in /usr/local/lib/python3.11/dist-
packages (from tbb==2022.*->mkl->numpy>=1.7.0->pretty-midi) (1.4.0)
Requirement already satisfied: intel-cmplr-lib-rt in
/usr/local/lib/python3.11/dist-packages (from mkl_umath->numpy>=1.7.0->pretty-
midi) (2024.2.0)
Requirement already satisfied: intel-cmplr-lib-ur==2024.2.0 in
/usr/local/lib/python3.11/dist-packages (from intel-
openmp<2026,>=2024->mkl->numpy>=1.7.0->pretty-midi) (2024.2.0)
Downloading mido-1.3.3-py3-none-any.whl (54 kB)
                              54.6/54.6 kB
```

```
    1.9 MB/s eta 0:00:00
Building wheels for collected packages: pretty-midi
  Building wheel for pretty-midi (setup.py) … done
  Created wheel for pretty-midi: filename=pretty_midi-0.2.10-py3-none-any.whl
size=5592286
sha256=d79b9f53e465397e76030ce0e2e08b94fc83872c0452f904d6e8255fe0ce82f7
  Stored in directory: /root/.cache/pip/wheels/e6/95/ac/15ceaeb2823b04d8e638fd14
95357adb8d26c00ccac9d7782e
Successfully built pretty-midi
Installing collected packages: mido, pretty-midi
Successfully installed mido-1.3.3 pretty-midi-0.2.10
```

```python
import os
import glob
import random
import warnings
import numpy as np
import pandas as pd
import zipfile
import copy
import pretty_midi
from IPython.display import FileLink
import matplotlib.pyplot as plt
import seaborn as sns
import multiprocessing
import traceback

from google.colab import drive
from music21 import converter, note, chord, tempo, meter, key, instrument,␣
 ↪articulations, dynamics
from concurrent.futures import ProcessPoolExecutor, ThreadPoolExecutor,␣
 ↪as_completed
from fractions import Fraction
from collections import defaultdict
from typing import List, Tuple
from tqdm import tqdm

from sklearn.preprocessing import StandardScaler
from sklearn.model_selection import train_test_split
from sklearn.utils.class_weight import compute_class_weight
import tensorflow as tf
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Conv2D, MaxPooling2D, Flatten, Dense,␣
 ↪Dropout, BatchNormalization, LSTM, Bidirectional
from sklearn.metrics import classification_report, confusion_matrix
import keras_tuner as kt
from tensorflow.keras.callbacks import EarlyStopping, ReduceLROnPlateau
```

```python
from tensorflow.keras import regularizers


warnings.filterwarnings("ignore")
```

3   Data Collection

3.1   Extract Dataset (Unzip it)

```python
zip_path = '/kaggle/input/midi-classic-music/midiclassics.zip'
extract_path = '/kaggle/working/extracted_files'
```

```python
with zipfile.ZipFile(zip_path, 'r') as zip_ref:
    zip_ref.extractall(extract_path)

# Check folder structure
os.listdir(extract_path)
```

```
['Tarrega',
 'Hiller',
 'Tchaikovsky Lake Of The Swans Act 2 13mov.mid',
 'Kuhlau Sonatina op55 n3 1mov.mid',
 'Reger Burlesque op58 n3.mid',
 'Debussy Suite Bergamasque 3mov.mid',
 'Shostakovich',
 'Reinecke Piano Concerto n3 1mov.mid',
 'Tchaikovsky Lake Of The Swans Act 1 9mov.mid',
 'Poulenc',
 'Katzwarra',
 'Bizet Symphony in C 4mov.mid',
 'Buxethude Buxwv167 Canzonetta.mid',
 'Diabelli Sonatina op151 n1 1mov.mid',
 'Jensen',
 'Debussy Suite Bergamasque 2mov.mid',
 'Alkan',
 'Morel',
 'Skriabin',
 'Wagner Ride of the valkyries.mid',
 'Buxethude Buxwv160 Ciacona.mid',
 'Diabelli Sonatina op151 n4 1mov.mid',
 'Diabelli Sonatina op151 n3 2mov.mid',
 'Handel',
 'Kuhlau',
 'Clementi',
 'Scarlatti',
 'Pachebel Toccata n7.mid',
```

```
"Rimsky Korsakov ''Flight Of the Bumblebee''.mid",
'Liszt Paganini Etude n1.mid',
'Rothchild Symphony Rmw12 1mov.mid',
'Tchaikovsky Lake Of The Swans Act 1 3mov.mid',
'Arensky',
'Mendelssohn',
'Fucick',
'Tchaikovsky Lake Of The Swans Act 1 4mov.mid',
'Rothchlid Symphony Rmw12 3mov.mid',
'Thomas',
'Mozart',
'Reinecke Piano Concerto n3 3mov.mid',
'Herold',
'Frescobaldi',
'Copland',
'Liszt Paganini Etude n3.mid',
'Wagner',
'Stravinski',
'Durand, MA',
'Lange',
'Bartelet',
'Wolf',
'Hemery',
'Sibelius Kuolema Vals op44.mid',
'Reger Burlesque op58 n5.mid',
'Diabelli Sonatina op151 n3 1mov.mid',
'Ganne',
'Grieg Piano Concerto op16 1mov.mid',
'Jakobowski',
'Ambroise',
'Pollen Beguine Royale.mid',
'Pridhan',
'Busser',
'C.P.E.Bach Solfeggieto.mid',
'Satie',
'Brahms',
'Messager',
'Friedman',
'Peterson-Berger',
'Taube',
'Chasins',
'Tchaikovsky Lake Of The Swans Act 2 10mov.mid',
'Paganini',
'MacBeth',
'Bacewitz',
'Pachelbel',
'Cramer',
```

```
'Debussy Suite Bergamasque 1mov.mid',
'Ravel',
'Saint-Saens',
'Berlin',
'Dvorak Symphony op70 n7 3mov.mid',
'Coleridge-Taylor',
'Liszt',
'Pachebel Toccata n1.mid',
'Schumann',
'Bizet Carmen Prelude.mid',
'Buxethude Buxwv161 Passcaglia.mid',
'Barber',
'Bach',
'Tchaikovsky Lake Of The Swans Act 2 14mov.mid',
'Becker',
'Haydn',
'Schoenberg',
'Rothchild Piano Sonata Rmw13 3mov.mid',
'Kuhlau Sonatina op60 n2.mid',
'Nicolai Overture The Merry Wives of Windsor.mid',
'Diabelli Sonatina op151 n4 2mov.mid',
'Komzak',
'Beethoven',
'Sullivan',
'Borodin',
'Mussorgski',
'Grieg Piano Concerto 2mov.mid',
'Rothchild Horn Concerto Rmw16 3mov.mid',
'Buxethude Buxwv157 Toccata.mid',
'Suppe',
'Paradisi',
'Buxethude Buxwv157 Tocatta and Fugue.mid',
'Bartok Suite 2mov.mid',
'Verdi',
'Prokofiev',
'Raff',
'Rothchild Horn Concerto Rmw16 1mov.mid',
'Couperin',
'Meyerbeer',
'Grainger',
'Burgmuller',
'Rachmaninov',
'German',
'Rothchild Piano Sonata Rmw13 1mov.mid',
"Varios - Ti'tulo desconocido",
'Le Thiere',
'Tchaicovsky Waltz of the Flowers.MID',
```

```
'Paderewski',
'Dvorak Slavonic dance n8.mid',
'Heidrich',
'Maier',
'Coates',
'meditation thais.mid',
'Reger Burlesque op58 n6.mid',
'Pachebel Toccata n3.mid',
'Faure',
'Dvorak Symphony op70 n7 4mov.mid',
'Bizet Symphony in C 3mov.mid',
"Liszt Ab irato ''The Perfect Etude'' S143 R4b.mid",
'Rothchild Oboe Concerto Rmw09 3mov.mid',
'Dvorak Symphony op70 n7 1mov.mid',
'Kuhlau Sonatina op60 n3.mid',
'Kuhlau Sonatina op20 n1.mid',
'Tchaikovsky Lake Of The Swans Act 1 6mov.mid',
'Buxethude Buxwv138 Prelude.mid',
'Bizet Symphony in C 2mov.mid',
'Lecuona',
'Sibelius',
'Holst',
'Reinecke Piano Concerto n3 2mov.mid',
'Gottschalk',
'Botsford',
'Bizet Symphony in C 1mov.mid',
'Tchaikovsky Lake Of The Swans Act 2 11mov.mid',
'Debussy',
'Joplin',
'Rothchild Oboe Concerto Rmw09 2mov.mid',
'Chopin',
'Diabelli Sonatina op151 n2 1mov.mid',
'Schubert',
'Pachebel Toccata n2.mid',
'Mendelsonn',
'Ginastera Estancia.mid',
'Lyssenko',
'Sarasate',
'Lemire',
'Laurent',
'Dvorak Trio op26.mid',
'Buxethude Buxwv155 Toccata.mid',
'Buxethude Buxwv162 Prelude.mid',
'Buxehude',
'Hummel',
'Bellini',
'Ivanovici',
```

```
'Diabelli Sonatina op151 n1 3mov.mid',
'Tchaikovsky Lake Of The Swans Act 1 1mov.mid',
'Rossini',
'Mehul',
'Arndt',
'Tchakoff',
'Dvorak Symphony op70 n7 2mov.mid',
'Buxethude Buxwv156 Toccata.mid',
'.DS_Store',
'Rothchild Horn Concerto Rmw16 2mov.mid',
'Diabelli Sonatina op151 n2 3mov.mid',
'Lavallee',
'Durand, E',
'Strauss, J',
'Liszt Paganini Etude n2.mid',
'Diabelli Sonatina op151 n1 2mov.mid',
'Rothchild Piano Sonata Rmw13 2mov.mid',
'Swinstead',
'Tchaikovsky Lake Of The Swans Act 1 5mov.mid',
'Bartok Suite 1mov.mid',
'Griffes',
'Tchaikovsky Lake Of The Swans Act 1 2mov.mid',
'Field',
'Resch',
"Albe'niz",
'Rimsky-Korsakov',
'Diabelli Sonatina op151 n3 3mov.mid',
'Buxethude Buxwv136 Prelude.mid',
'Tchaikovsky',
'Vivaldi',
'Chabrier',
'Liszt Hungarian Rhapsody n2.MID',
'Tchaikovsky Lake Of The Swans Act 1 7-8movs.mid',
'Moszkowski',
'Busoni',
'Lizt Piano Concerto n1 S124.mid',
'Dvorak',
'Ginastera',
'Buxethude Buxwv145 Prelude.mid',
'Bernstein',
'Finck',
'Dussek',
'Diabelli Sonatina op151 n2 2mov.mid',
'Czibulka',
'Flotow',
'Sinding',
'Sudds',
```

```
'Gershwin',
'Clarke',
'Heller',
'Tchaikovsky Lake Of The Swans Act 2 12mov.mid',
'Straus',
'Czerny',
'Liszt Bach Prelude Transcription.mid',
'Kuhlau Sonatina op55 n1.mid',
'Chaminade',
'Rothchild Oboe Concerto Rmw09 1mov.mid',
'Pachebel Toccata n4.mid',
'Liszt Paganini Etude n5.mid',
'Debussy Suite Bergamasque 4mov.mid',
'Buxethude Buxwv158 Preambulum.mid',
'MacCunn',
'Grieg',
'Gershuin Rhapsody In Blue Piano Duet.mid',
'Cons',
'Buxethude Buxwv153 Prelude.mid',
'Haendel',
'Vaughan',
'Franck',
'Rothchild Symphony Rmw12 2mov.mid',
'Bartok',
'Holst, M']
```

```
[ ]: !ls -ld /kaggle/working/extracted_files/Bach
     !ls -ld /kaggle/working/extracted_files/Beethoven
     !ls -ld /kaggle/working/extracted_files/Chopin
     !ls -ld /kaggle/working/extracted_files/Mozart
```

```
drwxr-xr-x 16 root root 12288 Aug  9 08:10 /kaggle/working/extracted_files/Bach
drwxr-xr-x 4 root root 12288 Aug  9 08:10
/kaggle/working/extracted_files/Beethoven
drwxr-xr-x 2 root root 12288 Aug  9 08:10 /kaggle/working/extracted_files/Chopin
drwxr-xr-x 6 root root 4096 Aug  9 08:10 /kaggle/working/extracted_files/Mozart
```

3.2 Collect MID files for each top folder and subfolders

We are considering only Bach, Beethoven, Chopin and Mozart as mentioned in the project guidelines.

```
[ ]: # Set the path where the MIDI files are stored
     DATA_DIR = "/kaggle/working/extracted_files/"

     # List of composers we want
     TARGET_COMPOSERS = ["Bach", "Beethoven", "Chopin", "Mozart"]
```

```python
def collect_midi_files(data_dir, target_composers):
    midi_files_by_composer = defaultdict(list)

    for composer in target_composers:
        composer_dir = os.path.join(data_dir, composer)
        if not os.path.exists(composer_dir):
            print(f"[WARN] Directory not found for composer: {composer}")
            continue

        for root, _, files in os.walk(composer_dir):
            for file in files:
                if file.lower().endswith(('.mid', '.midi')):
                    full_path = os.path.join(root, file)
                    midi_files_by_composer[composer].append(full_path)

        print(f"[INFO] {composer}: {len(midi_files_by_composer[composer])}
    ↪files collected")

    return midi_files_by_composer
```

```python
# Run the function
midi_files_by_composer = collect_midi_files(DATA_DIR, TARGET_COMPOSERS)
```

```
[INFO] Bach: 1024 files collected
[INFO] Beethoven: 213 files collected
[INFO] Chopin: 136 files collected
[INFO] Mozart: 257 files collected
```

3.3 Check if any other files are available in the folders apart from .mid or .midi

```python
def list_unique_file_extensions(root_folder):
    extensions = set()

    for dirpath, _, files in os.walk(root_folder):
        for file in files:
            if '.' in file:
                ext = file.lower().rsplit('.', 1)[-1]
                extensions.add(ext)
            else:
                extensions.add('NO_EXTENSION')

    return extensions
```

```python
# Example usage
for target_composer in TARGET_COMPOSERS:
    unique_exts = list_unique_file_extensions(f"{DATA_DIR}/{target_composer}")
    print(f"Unique file extensions found for {target_composer}:", unique_exts)
```

```
Unique file extensions found for Bach: {'NO_EXTENSION', 'mid'}
Unique file extensions found for Beethoven: {'zip', 'mid'}
Unique file extensions found for Chopin: {'mid'}
Unique file extensions found for Mozart: {'mid'}
```

4 Data Pre-processing

4.1 Perform Data Augmentation for the MIDI Files and Label each of them

```python
def augment_single_file(filename, output_folder, num_augments):
    base_name = os.path.splitext(os.path.basename(filename))[0]

    try:
        midi = pretty_midi.PrettyMIDI(filename)
    except Exception as e:
        return f"Error reading {filename}: {e}"

    for i in range(num_augments):
        augmented = pretty_midi.PrettyMIDI()
        for instrument in midi.instruments:
            new_instrument = pretty_midi.Instrument(program=instrument.program,
    is_drum=instrument.is_drum)
            for note in instrument.notes:
                pitch_shift = random.choice([-2, -1, 0, 1, 2])
                new_pitch = min(max(note.pitch + pitch_shift, 0), 127)

                velocity_variation = random.randint(-10, 10)
                new_velocity = min(max(note.velocity + velocity_variation, 0),
    127)

                time_scale = random.choice([0.9, 1.0, 1.1])
                start = note.start * time_scale
                end = note.end * time_scale

                new_note = pretty_midi.Note(
                    velocity=new_velocity,
                    pitch=new_pitch,
                    start=start,
                    end=end
                )
                new_instrument.notes.append(new_note)

            augmented.instruments.append(new_instrument)

        output_file = os.path.join(output_folder, f"{base_name}_aug{i}.mid")
        augmented.write(output_file)
```

```
        return None
```

```python
def process_file(args):
    filename, output_folder, num_augments = args
    return augment_single_file(filename, output_folder, num_augments)
```

```python
def augment_midi_folder_parallel(input_folder, output_folder, num_augments=5,
 ↪batch_size=50, max_workers=None):
    if not os.path.exists(output_folder):
        os.makedirs(output_folder)

    midi_list = glob.glob(os.path.join(input_folder, '**', '*.mid'),
 ↪recursive=True)
    midi_list += glob.glob(os.path.join(input_folder, '**', '*.midi'),
 ↪recursive=True)

    total_files = len(midi_list)
    print(f"[INFO] Found {total_files} MIDI files.")

    if max_workers is None:
        max_workers = os.cpu_count() or 1

    for batch_start in range(0, total_files, batch_size):
        batch_files = midi_list[batch_start:batch_start + batch_size]

        with ProcessPoolExecutor(max_workers=max_workers) as executor:
            results = list(tqdm(
                executor.map(process_file, [(f, output_folder, num_augments)
 ↪for f in batch_files]),
                total=len(batch_files),
                desc=f"Processing batch {batch_start//batch_size + 1}"
            ))

        errors = [r for r in results if r is not None]
        for err in errors:
            print("[ERROR]", err)
```

```python
augment_midi_folder_parallel(
    input_folder="/kaggle/working/extracted_files/Bach",
    output_folder="/kaggle/working/Bach_augmented",
    num_augments=3,
    batch_size=10,
    max_workers=os.cpu_count()
)
```

```
[INFO] Found 925 MIDI files.
```

```
Processing batch 1: 100%|        | 10/10 [00:03<00:00,  2.81it/s]
Processing batch 2: 100%|        | 10/10 [00:04<00:00,  2.49it/s]
Processing batch 3: 100%|        | 10/10 [00:03<00:00,  3.20it/s]
Processing batch 4: 100%|        | 10/10 [00:01<00:00,  7.00it/s]
Processing batch 5: 100%|        | 10/10 [00:03<00:00,  2.64it/s]
Processing batch 6: 100%|        | 10/10 [00:05<00:00,  1.80it/s]
Processing batch 7: 100%|        | 10/10 [00:02<00:00,  4.59it/s]
Processing batch 8: 100%|        | 10/10 [00:03<00:00,  2.51it/s]
Processing batch 9: 100%|        | 10/10 [00:02<00:00,  4.46it/s]
Processing batch 10: 100%|        | 10/10 [00:03<00:00,  3.24it/s]
Processing batch 11: 100%|        | 10/10 [00:03<00:00,  3.23it/s]
Processing batch 12: 100%|        | 10/10 [00:03<00:00,  2.81it/s]
Processing batch 13: 100%|        | 10/10 [00:01<00:00,  8.37it/s]
Processing batch 14: 100%|        | 10/10 [00:01<00:00,  7.68it/s]
Processing batch 15: 100%|        | 10/10 [00:01<00:00,  5.50it/s]
Processing batch 16: 100%|        | 10/10 [00:05<00:00,  1.82it/s]
Processing batch 17: 100%|        | 10/10 [00:05<00:00,  1.67it/s]
Processing batch 18: 100%|        | 10/10 [00:03<00:00,  3.10it/s]
Processing batch 19: 100%|        | 10/10 [00:09<00:00,  1.09it/s]
Processing batch 20: 100%|        | 10/10 [00:03<00:00,  2.84it/s]
Processing batch 21: 100%|        | 10/10 [00:06<00:00,  1.48it/s]
Processing batch 22: 100%|        | 10/10 [00:08<00:00,  1.17it/s]
Processing batch 23: 100%|        | 10/10 [00:00<00:00, 15.78it/s]
Processing batch 24: 100%|        | 10/10 [00:00<00:00, 48.62it/s]
Processing batch 25: 100%|        | 10/10 [00:00<00:00, 35.82it/s]
Processing batch 26: 100%|        | 10/10 [00:00<00:00, 14.41it/s]
Processing batch 27: 100%|        | 10/10 [00:01<00:00,  6.21it/s]
Processing batch 28: 100%|        | 10/10 [00:00<00:00, 34.67it/s]
Processing batch 29: 100%|        | 10/10 [00:00<00:00, 14.69it/s]
Processing batch 30: 100%|        | 10/10 [00:00<00:00, 30.81it/s]
Processing batch 31: 100%|        | 10/10 [00:00<00:00, 11.82it/s]
Processing batch 32: 100%|        | 10/10 [00:00<00:00, 19.19it/s]
Processing batch 33: 100%|        | 10/10 [00:00<00:00, 25.69it/s]
Processing batch 34: 100%|        | 10/10 [00:00<00:00, 16.93it/s]
Processing batch 35: 100%|        | 10/10 [00:00<00:00, 18.47it/s]
Processing batch 36: 100%|        | 10/10 [00:00<00:00, 15.33it/s]
Processing batch 37: 100%|        | 10/10 [00:00<00:00, 25.94it/s]
Processing batch 38: 100%|        | 10/10 [00:00<00:00, 33.56it/s]
Processing batch 39: 100%|        | 10/10 [00:02<00:00,  3.46it/s]
Processing batch 40: 100%|        | 10/10 [00:00<00:00, 36.88it/s]
Processing batch 41: 100%|        | 10/10 [00:00<00:00, 11.75it/s]
Processing batch 42: 100%|        | 10/10 [00:00<00:00, 29.00it/s]
Processing batch 43: 100%|        | 10/10 [00:00<00:00, 20.90it/s]
Processing batch 44: 100%|        | 10/10 [00:00<00:00, 11.07it/s]
Processing batch 45: 100%|        | 10/10 [00:01<00:00,  9.85it/s]
Processing batch 46: 100%|        | 10/10 [00:00<00:00, 19.74it/s]
Processing batch 47: 100%|        | 10/10 [00:00<00:00, 28.33it/s]
Processing batch 48: 100%|        | 10/10 [00:00<00:00, 17.21it/s]
```

```
Processing batch 49: 100%|         | 10/10 [00:01<00:00,  9.63it/s]
Processing batch 50: 100%|         | 10/10 [00:00<00:00, 19.14it/s]
Processing batch 51: 100%|         | 10/10 [00:00<00:00, 38.32it/s]
Processing batch 52: 100%|         | 10/10 [00:00<00:00, 23.12it/s]
Processing batch 53: 100%|         | 10/10 [00:00<00:00, 17.04it/s]
Processing batch 54: 100%|         | 10/10 [00:00<00:00, 33.96it/s]
Processing batch 55: 100%|         | 10/10 [00:00<00:00, 27.50it/s]
Processing batch 56: 100%|         | 10/10 [00:00<00:00, 14.90it/s]
Processing batch 57: 100%|         | 10/10 [00:00<00:00, 10.76it/s]
Processing batch 58: 100%|         | 10/10 [00:00<00:00, 29.97it/s]
Processing batch 59: 100%|         | 10/10 [00:00<00:00, 40.72it/s]
Processing batch 60: 100%|         | 10/10 [00:00<00:00, 22.38it/s]
Processing batch 61: 100%|         | 10/10 [00:00<00:00, 13.31it/s]
Processing batch 62: 100%|         | 10/10 [00:01<00:00,  6.55it/s]
Processing batch 63: 100%|         | 10/10 [00:00<00:00, 20.06it/s]
Processing batch 64: 100%|         | 10/10 [00:00<00:00, 29.99it/s]
Processing batch 65: 100%|         | 10/10 [00:00<00:00, 18.93it/s]
Processing batch 66: 100%|         | 10/10 [00:00<00:00, 27.73it/s]
Processing batch 67: 100%|         | 10/10 [00:00<00:00, 36.38it/s]
Processing batch 68: 100%|         | 10/10 [00:00<00:00, 25.81it/s]
Processing batch 69: 100%|         | 10/10 [00:00<00:00, 18.53it/s]
Processing batch 70: 100%|         | 10/10 [00:00<00:00, 10.71it/s]
Processing batch 71: 100%|         | 10/10 [00:00<00:00, 34.98it/s]
Processing batch 72: 100%|         | 10/10 [00:00<00:00, 28.58it/s]
Processing batch 73: 100%|         | 10/10 [00:00<00:00, 31.30it/s]
Processing batch 74: 100%|         | 10/10 [00:00<00:00, 20.41it/s]
Processing batch 75: 100%|         | 10/10 [00:00<00:00, 13.10it/s]
Processing batch 76: 100%|         | 10/10 [00:00<00:00, 15.17it/s]
Processing batch 77: 100%|         | 10/10 [00:00<00:00, 14.50it/s]
Processing batch 78: 100%|         | 10/10 [00:00<00:00, 12.49it/s]
Processing batch 79: 100%|         | 10/10 [00:01<00:00,  7.72it/s]
Processing batch 80: 100%|         | 10/10 [00:00<00:00, 10.26it/s]
Processing batch 81: 100%|         | 10/10 [00:01<00:00,  8.41it/s]
Processing batch 82: 100%|         | 10/10 [00:00<00:00, 16.65it/s]
Processing batch 83: 100%|         | 10/10 [00:00<00:00, 16.90it/s]
Processing batch 84: 100%|         | 10/10 [00:00<00:00, 16.50it/s]
Processing batch 85: 100%|         | 10/10 [00:09<00:00,  1.11it/s]
Processing batch 86: 100%|         | 10/10 [00:07<00:00,  1.42it/s]
Processing batch 87: 100%|         | 10/10 [00:06<00:00,  1.54it/s]
Processing batch 88: 100%|         | 10/10 [00:04<00:00,  2.02it/s]
Processing batch 89: 100%|         | 10/10 [00:05<00:00,  1.76it/s]
Processing batch 90: 100%|         | 10/10 [00:11<00:00,  1.13s/it]
Processing batch 91: 100%|         | 10/10 [00:09<00:00,  1.10it/s]
Processing batch 92: 100%|         | 10/10 [00:07<00:00,  1.40it/s]
Processing batch 93: 100%|         | 5/5 [00:02<00:00,  2.47it/s]
```

```
augment_midi_folder_parallel(
    input_folder="/kaggle/working/extracted_files/Beethoven",
    output_folder="/kaggle/working/Beethoven_augmented",
    num_augments=3,
    batch_size=10,
    max_workers=os.cpu_count()
)
```

```
[INFO] Found 212 MIDI files.

Processing batch 1: 100%|      | 10/10 [00:06<00:00,  1.66it/s]
Processing batch 2: 100%|      | 10/10 [00:07<00:00,  1.35it/s]
Processing batch 3: 100%|      | 10/10 [00:06<00:00,  1.52it/s]
Processing batch 4: 100%|      | 10/10 [00:07<00:00,  1.39it/s]
Processing batch 5: 100%|      | 10/10 [00:02<00:00,  4.87it/s]
Processing batch 6: 100%|      | 10/10 [00:08<00:00,  1.16it/s]
Processing batch 7: 100%|      | 10/10 [00:08<00:00,  1.13it/s]
Processing batch 8: 100%|      | 10/10 [00:06<00:00,  1.49it/s]
Processing batch 9: 100%|      | 10/10 [00:07<00:00,  1.33it/s]
Processing batch 10: 100%|      | 10/10 [00:07<00:00,  1.42it/s]

[ERROR] Error reading /kaggle/working/extracted_files/Beethoven/Anhang 14-3.mid:
Could not decode key with 3 flats and mode 255

Processing batch 11: 100%|     | 10/10 [00:02<00:00,  4.24it/s]
Processing batch 12: 100%|     | 10/10 [00:04<00:00,  2.33it/s]
Processing batch 13: 100%|     | 10/10 [00:06<00:00,  1.57it/s]
Processing batch 14: 100%|     | 10/10 [00:09<00:00,  1.06it/s]
Processing batch 15: 100%|     | 10/10 [00:07<00:00,  1.34it/s]
Processing batch 16: 100%|     | 10/10 [00:07<00:00,  1.34it/s]
Processing batch 17: 100%|     | 10/10 [00:06<00:00,  1.49it/s]
Processing batch 18: 100%|     | 10/10 [00:13<00:00,  1.31s/it]
Processing batch 19: 100%|     | 10/10 [00:21<00:00,  2.18s/it]
Processing batch 20: 100%|     | 10/10 [00:21<00:00,  2.16s/it]
Processing batch 21: 100%|     | 10/10 [00:19<00:00,  1.90s/it]
Processing batch 22: 100%|     | 2/2 [00:03<00:00,  1.91s/it]
```

```
augment_midi_folder_parallel(
    input_folder="/kaggle/working/extracted_files/Mozart",
    output_folder="/kaggle/working/Mozart_augmented",
    num_augments=3,
    batch_size=10,
    max_workers=os.cpu_count()
)
```

```
[INFO] Found 257 MIDI files.

Processing batch 1: 100%|      | 10/10 [00:03<00:00,  2.84it/s]
Processing batch 2: 100%|      | 10/10 [00:04<00:00,  2.15it/s]
```

```
Processing batch 3: 100%|      | 10/10 [00:03<00:00,  2.64it/s]
Processing batch 4: 100%|      | 10/10 [00:05<00:00,  1.86it/s]
Processing batch 5: 100%|      | 10/10 [00:04<00:00,  2.46it/s]
Processing batch 6: 100%|      | 10/10 [00:04<00:00,  2.04it/s]
Processing batch 7: 100%|      | 10/10 [00:04<00:00,  2.01it/s]
Processing batch 8: 100%|      | 10/10 [00:04<00:00,  2.07it/s]
Processing batch 9: 100%|      | 10/10 [00:04<00:00,  2.14it/s]
Processing batch 10: 100%|      | 10/10 [00:06<00:00,  1.51it/s]
Processing batch 11: 100%|      | 10/10 [00:06<00:00,  1.46it/s]
Processing batch 12: 100%|      | 10/10 [00:07<00:00,  1.28it/s]
```

[ERROR] Error reading /kaggle/working/extracted_files/Mozart/Piano Sonatas/Nueva
carpeta/K281 Piano Sonata n03 3mov.mid: Could not decode key with 2 flats and
mode 2

```
Processing batch 13: 100%|      | 10/10 [00:05<00:00,  1.81it/s]
Processing batch 14: 100%|      | 10/10 [00:07<00:00,  1.40it/s]
Processing batch 15: 100%|      | 10/10 [00:05<00:00,  1.81it/s]
Processing batch 16: 100%|      | 10/10 [00:09<00:00,  1.01it/s]
Processing batch 17: 100%|      | 10/10 [00:08<00:00,  1.23it/s]
Processing batch 18: 100%|      | 10/10 [00:10<00:00,  1.07s/it]
Processing batch 19: 100%|      | 10/10 [00:07<00:00,  1.29it/s]
Processing batch 20: 100%|      | 10/10 [00:08<00:00,  1.21it/s]
Processing batch 21: 100%|      | 10/10 [00:08<00:00,  1.24it/s]
Processing batch 22: 100%|      | 10/10 [00:11<00:00,  1.13s/it]
Processing batch 23: 100%|      | 10/10 [00:07<00:00,  1.30it/s]
Processing batch 24: 100%|      | 10/10 [00:04<00:00,  2.28it/s]
Processing batch 25: 100%|      | 10/10 [00:00<00:00, 19.30it/s]
Processing batch 26: 100%|      | 7/7 [00:00<00:00, 21.45it/s]
```

```python
[ ]: augment_midi_folder_parallel(
        input_folder="/kaggle/working/extracted_files/Chopin",
        output_folder="/kaggle/working/Chopin_augmented",
        num_augments=3,
        batch_size=10,
        max_workers=os.cpu_count()
    )
```

[INFO] Found 136 MIDI files.

```
Processing batch 1: 100%|      | 10/10 [00:02<00:00,  3.47it/s]
Processing batch 2: 100%|      | 10/10 [00:02<00:00,  4.24it/s]
Processing batch 3: 100%|      | 10/10 [00:06<00:00,  1.66it/s]
Processing batch 4: 100%|      | 10/10 [00:02<00:00,  3.54it/s]
Processing batch 5: 100%|      | 10/10 [00:02<00:00,  3.68it/s]
Processing batch 6: 100%|      | 10/10 [00:02<00:00,  3.90it/s]
Processing batch 7: 100%|      | 10/10 [00:03<00:00,  2.59it/s]
Processing batch 8: 100%|      | 10/10 [00:02<00:00,  3.69it/s]
```

```
Processing batch 9: 100%|        | 10/10 [00:03<00:00,  3.28it/s]
Processing batch 10: 100%|       | 10/10 [00:02<00:00,  4.84it/s]
Processing batch 11: 100%|       | 10/10 [00:04<00:00,  2.34it/s]
Processing batch 12: 100%|       | 10/10 [00:02<00:00,  4.52it/s]
Processing batch 13: 100%|       | 10/10 [00:02<00:00,  4.66it/s]
Processing batch 14: 100%|       | 6/6 [00:01<00:00,  3.90it/s]
```

4.1.1 Download augmented files

```python
# Zip all the folders
!zip -r Bach_augmented.zip /kaggle/working/Bach_augmented
```

```
  adding: kaggle/working/Bach_augmented/ (stored 0%)
  adding: kaggle/working/Bach_augmented/065700b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/009507b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/2.Aus Liebe will mein Heiland sterban
Soprano Aria_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/006906ba_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Wtcii02b_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv019.7ch_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
1mov_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Double Fugue n2_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.13_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1041 Violin Concerto n1 2mov_aug1.mid
(deflated 31%)
  adding: kaggle/working/Bach_augmented/025100b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/024864b6_aug1.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/004807b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0815 French Suite n4_aug0.mid
(deflated 29%)
  adding: kaggle/working/Bach_augmented/030600b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/006704b__aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv0539 Prelude and Fugue_aug1.mid
(deflated 29%)
  adding: kaggle/working/Bach_augmented/065500b__aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/024864b6_aug0.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/Wtcii01b_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/014004b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/066600b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/4.Blute nur du liebes Herz Soprano
Aria_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/032700b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv006.3_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/010602b__aug2.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/019406bv_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/037300b__aug1.mid (deflated 28%)
```

```
adding: kaggle/working/Bach_augmented/invent14_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/041700b__aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 6mov_aug1.mid
(deflated 23%)
adding: kaggle/working/Bach_augmented/Wtcii16b_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/014403b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv0544 Prelude and Fugue_aug0.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0798 Sinfonia n12_aug1.mid (deflated
29%)
adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 05mov_aug2.mid
(deflated 23%)
adding: kaggle/working/Bach_augmented/022707b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Canon Fugue n2_aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Bwv031.9_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/039900b__aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Bouree_aug0.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/029500b__aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
1mov_aug1.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/042800b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Variation 14_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0582 Passacaglia and Fugue
(Orchestral)_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/012006b__aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/007206b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/invent4_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/03 Menuet_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/028100b__aug0.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/Tocatto No.1 in F Sharp Minor, BWV
910_aug2.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/009507b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/066400b__aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/007007b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/008807b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/invent2_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1041 Violin Concerto n1 1mov_aug0.mid
(deflated 31%)
adding: kaggle/working/Bach_augmented/035500b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 08mov _aug0.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/Bwv003.6v_aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/025300b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/010406b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/070000b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/invent13_aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/008405b__aug1.mid (deflated 28%)
```

```
adding: kaggle/working/Bach_augmented/Bwv0530 Sonate en trio n6_aug0.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/01 Menuet_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv780 Invention n09 _aug0.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/035400b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/043000b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
7mov_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/035200b__aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/8.Mache dich mein herz Bass
Aria_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/041000b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/009709ch_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/007903b__aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/065100b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1049 Brandenburg Concert n4
3mov_aug1.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 3mov_aug0.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/17. Bass Aria Et In Spritum _aug0.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/017507b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0795 Sinfonia n9_aug1.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/Bwv029.8_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0998 Prelude Fugue Allegro for Lute
2mov_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0541 Prelude and Fugue_aug0.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 01mov _aug0.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv1005 Violin Sonata n3 4mov
Allegro_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/033100b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv783 Invention n12 _aug0.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/Bwv0570 Fantasia_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/037800b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/006005b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv1065 Four Harpsichords
Concerto_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
2mov_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/069000b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.._aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/027900b__aug0.mid (deflated 31%)
```

adding: kaggle/working/Bach_augmented/Bwv0998 Prelude Fugue Allegro for Lute
1mov_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/033200b__aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/027100b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Triple Fugue n1_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1054 Harpsichord Concerto n3
1mov_aug0.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Wtcii19b_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0551 Prelude and Fugue_aug0.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0558 Short Prelude and Fugue n6
(Spurious)_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0594 Vivaldi Concerto Arrangement
RV208_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/040500b__aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/08 Polonaise_aug0.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Bwv1043 Two Violins Concerto n3
3mov_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv1044 Flute Violin and Harpsichord
Concerto 1mov_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/019707ba_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/030000b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/005708b__aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Variation 06_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.4_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/029600b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv029.8ch_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Variation 10_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/09. Aria Qui Sedes_aug0.mid (deflated
28%)
  adding: kaggle/working/Bach_augmented/04. Chor Gloria In Exelcis _aug1.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Triple Fugue n1_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/024846b5_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral suite n3
Gavotte_aug2.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/032500b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/024823b2_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0800 Sinfonia n14_aug0.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/14. Duet In Unum _aug1.mid (deflated
26%)
  adding: kaggle/working/Bach_augmented/024415bv_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/060800b_ _aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/029100b__aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/026600b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/005903b__aug0.mid (deflated 30%)

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adding: kaggle/working/Bach_augmented/015305b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/013606b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/013306b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/031700b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/035800b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/011704v1_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 3mov_aug2.mid
(deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv0525 Sonate en trio n1_aug1.mid
(deflated 26%)
adding: kaggle/working/Bach_augmented/030100b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/028400b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/013703b__aug1.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/032200b__aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/009005b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto
n1b_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv0565 Toccata and Fugue In Dm
A_aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/017206ch_aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv0817 French Suite n6_aug0.mid
(deflated 26%)
adding: kaggle/working/Bach_augmented/Variation 06_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/012606bv_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0793 Sinfonia n7_aug1.mid (deflated
30%)
adding: kaggle/working/Bach_augmented/Bwv0563 Fantasie con imitation_aug1.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/034300b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv003.6_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Variation 23_aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/028900b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/060800qt _aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/11 Marche_aug0.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/013705b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/13 Marche_aug0.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/034000b__aug1.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/032900b__aug0.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Wtcii05b_aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/005708b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv1047 Brandenburg Concert n2
2mov_aug2.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Variation 13_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/004606bs_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1057 Harpsichord Concerto n6
3mov_aug1.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/012606b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 5mov_aug2.mid
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(deflated 27%)
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  adding: kaggle/working/Bach_augmented/024540b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/036600b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 16_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/04 Menuet_aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/065300b__aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/024809bs_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/025900b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/037300bv_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral suite n3 Air_aug0.mid
(deflated 21%)
  adding: kaggle/working/Bach_augmented/04. Chor Gloria In Exelcis _aug0.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/024429bb_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv026.6_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/034100b__aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv027.6_aug1.mid (deflated 27%)
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  adding: kaggle/working/Bach_augmented/013701b__aug0.mid (deflated 35%)
  adding: kaggle/working/Bach_augmented/008606b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
3mov_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/035500b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
2mov_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv1044 Flute Violin and Harpsichord
Concerto 2mov_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/024425b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/064200b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0801 Sinfonia n15_aug0.mid (deflated
25%)
  adding: kaggle/working/Bach_augmented/011308b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0530 Sonate en trio n6_aug1.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/011106b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/011506bv_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/007903b__aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Bwv0549 Prelude and Fugue_aug1.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/043700b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Canon Fugue n2_aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Variation 17_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1061 Two Harpsichords Concerto
n2_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/035300b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/037300b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/027700b__aug2.mid (deflated 30%)
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adding: kaggle/working/Bach_augmented/013701b__aug2.mid (deflated 35%)
adding: kaggle/working/Bach_augmented/031100b__aug0.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/035600b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/018405bv_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/035500b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Variation 02_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv024.6_aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/005505b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/069100b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/033200b__aug0.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 2mov_aug0.mid
(deflated 23%)
adding: kaggle/working/Bach_augmented/Wtcii17b_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/042700b__aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/039100b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/028500b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/invent1_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv0794 Sinfonia n8_aug1.mid (deflated
30%)
adding: kaggle/working/Bach_augmented/011606b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/065000b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/bsgjg_c_aug0.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/Bwv0557 Short Prelude and Fugue n5
(Spurious)_aug0.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/5.Erbarme dicht, mein Gott Alto
Aria_aug1.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv0933 Little Prelude n1_aug1.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/Bwv1042 Violin Concerto n2 2mov_aug0.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/Toccata and Fugue in D minor, BWV 565.
(Busoni Piano Arr_aug1.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv0817 French Suite n6_aug2.mid
(deflated 26%)
adding: kaggle/working/Bach_augmented/027600b__aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/034400b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Prelude and Fugue in A, BWV 888_aug1.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/Bwv0546 Prelude and Fugue_aug0.mid
(deflated 29%)
adding: kaggle/working/Bach_augmented/028100b__aug2.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv0792 Sinfonia n6_aug0.mid (deflated
29%)
adding: kaggle/working/Bach_augmented/10.Wir setzen uns mit Tra"nen nieder
Chorus_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Tocatto No.1 in F Sharp Minor, BWV
910_aug0.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/041500b__aug2.mid (deflated 30%)
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adding: kaggle/working/Bach_augmented/024864bs_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv025.6_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/024517b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0733 Fuga Sopra Magnificat_aug2.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/024540b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0594 Vivaldi Concerto Arrangement
RV208_aug1.mid (deflated 28%)
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2mov_aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/028400b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/07 Rondo_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/015309b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/031300b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/003907bv_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1014 Harpsicord and Violin Sonata
2mov_aug1.mid (deflated 23%)
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  adding: kaggle/working/Bach_augmented/022703b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/031000b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/006106b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 22_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/007305b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/065800b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/004507b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/024537b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/14 Polonaise_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/024812b2_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/034200b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/034500b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/030600b__aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/030400b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1053 Harpsichord Concerto n2
1mov_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 18_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/07 Rondo_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0797 Sinfonia n11_aug0.mid (deflated
28%)
  adding: kaggle/working/Bach_augmented/010107bv_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/026600b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv782 Invention n11_aug0.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/Bwv011.6_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv776 Invention n05_aug2.mid (deflated
28%)
  adding: kaggle/working/Bach_augmented/030000b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/016907b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/013006b__aug2.mid (deflated 28%)
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adding: kaggle/working/Bach_augmented/007011ch_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/019007b__aug1.mid (deflated 35%)
adding: kaggle/working/Bach_augmented/032900b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/043800b__aug2.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/17. Bass Aria Et In Spritum _aug2.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/05 Polonaise_aug2.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/034700b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/22. Agnus Dei_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
1mov_aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.3_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/011704b__aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/065600b__aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.15_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/024842b4_aug2.mid (deflated 33%)
adding: kaggle/working/Bach_augmented/017606b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/1.Bass Aria_aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/016506b__aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/041600b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv026.6_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/032700b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/014007b__aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/019506b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/6.Herzliebster Jesu Chorus_aug0.mid
(deflated 26%)
adding: kaggle/working/Bach_augmented/017705bv_aug1.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.8_aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv0532 Toccata and Fugue_aug2.mid
(deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv1060 Two Harpsichords Concerto
n1_aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/033900b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/008506b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 04mov _aug2.mid
(deflated 22%)
adding: kaggle/working/Bach_augmented/Bwv020.7_aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral suite n3
Bourree_aug0.mid (deflated 21%)
adding: kaggle/working/Bach_augmented/043200b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/bsgjg_g_aug0.mid (deflated 21%)
adding: kaggle/working/Bach_augmented/09 Menuet_aug0.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Passpied_aug0.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/01. Kyrie Eleison _aug1.mid (deflated
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29%)
  adding: kaggle/working/Bach_augmented/Bwv1046 Brandenburg Concert n1
2mov_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/033100b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Variation 18_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/007906b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/018007bv_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/08 Polonaise_aug2.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Triple Fugue n2_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/024828b3_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/026000b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/030700b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/043300b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv774 Invention n03_aug2.mid (deflated
25%)
  adding: kaggle/working/Bach_augmented/034900b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0559 Short Prelude and Fugue n7
(Spurious)_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/024528b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.._aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/017206b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/038100b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv036(2).4_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/019406b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/033400b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv802 Four Inventions (Duettos)
Clavier-U"bung III n1_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 1mov_aug2.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv1014 Harpsicord and Violin Sonata
4mov_aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/8.Mache dich mein herz Bass
Aria_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv011.6_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 1mov_aug1.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv1044 Flute Violin and Harpsichord
Concerto 1mov_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 5mov_aug0.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/028800b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/The Art of the Fugue BWV1080_aug0.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/Wtcii01b_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.11_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/012008ba_aug2.mid (deflated 28%)
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  adding: kaggle/working/Bach_augmented/Bwv0996 Suite for Lute_aug1.mid
(deflated 29%)
  adding: kaggle/working/Bach_augmented/027000b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/031000b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/034700b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/043600b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.6_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0568 Prelude_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/014806b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv017.7_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv0555 Short Prelude and Fugue n3
(Spurious)_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
7mov_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0530 Sonate en trio n6_aug2.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/038800b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1065 Four Harpsichords
Concerto_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/038600b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Double Fugue n2_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/029100b__aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/024505b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1041 Violin Concerto n1 2mov_aug2.mid
(deflated 30%)
  adding: kaggle/working/Bach_augmented/032300b__aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/039000b__aug2.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/022701b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1049 Brandenburg Concert n4
2mov_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 5mov_aug0.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/01. Kyrie Eleison _aug0.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/Bwv1060 Two Harpsichords Concerto
n1_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/012506b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/041300b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/040600b__aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/024540b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/010506b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/024864qt_aug0.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/033600b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Counter Fugue n3_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/017906b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Variation 03_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/010006b__aug0.mid (deflated 33%)
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adding: kaggle/working/Bach_augmented/006206b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv029.8ch_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Variation 05_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0790 Sinfonia n4_aug1.mid (deflated
31%)
  adding: kaggle/working/Bach_augmented/02. Christe Eleison _aug1.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/029200b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.8_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/024864qt_aug1.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/Bwv0536 Prelude and Fugue_aug1.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv0796 Sinfonia n10_aug2.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/007206b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/029200b__aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/028000b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/004807b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/016506b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/005605b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/16 Marche_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Variation 17_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/064500b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/012008ba_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/024437b__aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/013506b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/bsgjg_i_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Variation 25_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Variation 12_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral suite n3 Air_aug1.mid
(deflated 21%)
  adding: kaggle/working/Bach_augmented/003907b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1051 Brandenburg Concert n6
1mov_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/060600b__aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/051000b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1054 Harpsichord Concerto n3
2mov_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1044 Flute Violin and Harpsichord
Concerto 3mov_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/024437b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/027500b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii06b_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Menuet_aug2.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
5mov_aug1.mid (deflated 30%)
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adding: kaggle/working/Bach_augmented/010107bv_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0967 Sonata_aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/017405b__aug2.mid (deflated 33%)
adding: kaggle/working/Bach_augmented/012106b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/034600b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/038100b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/005206b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/042600b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/035900b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/029800b__aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/031100b__aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/007011ch_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/4.Blute nur du liebes Herz Soprano
Aria_aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/030500b__aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/014907b__aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/bsgjg_b_aug1.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/031000b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1044 Flute Violin and Harpsichord
Concerto 2mov_aug1.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv014.5_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/006408b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/019007b__aug0.mid (deflated 34%)
adding: kaggle/working/Bach_augmented/019707ba_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv014.5_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv032.6_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/026100b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/041100b__aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/024511b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
4mov_aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/064900b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/15. Et Incarnatus & Cricifixus_aug2.mid
(deflated 25%)
adding: kaggle/working/Bach_augmented/015305b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/076902b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/041600b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/016106b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/06. Chor Gratias Animus Tibi _aug0.mid
(deflated 26%)
adding: kaggle/working/Bach_augmented/041400b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/025800b__aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/035900b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1014 Harpsicord and Violin Sonata
3mov_aug0.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/037100b__aug1.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/036900b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/2.Aus Liebe will mein Heiland sterban
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Soprano Aria_aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Canon Fugue n1_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0537 Fantasia and Fugue_aug0.mid
(deflated 28%)
  adding: kaggle/working/Bach_augmented/037500b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/051000b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/039500b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.._aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/031600b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1064 Three Harpsichords Concerto n2
1mov_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
7mov_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/025500b__aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/024864qt_aug2.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/022711b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/008008b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/bsgjg_i_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/007807b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Overture_aug1.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Minuet in G_aug2.mid (deflated 19%)
  adding: kaggle/working/Bach_augmented/11. Chor Cum Sancto _aug0.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/Bwv0800 Sinfonia n14_aug1.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/Tocatto No.1 in F Sharp Minor, BWV
910_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv0555 Short Prelude and Fugue n3
(Spurious)_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0817 French Suite n6_aug1.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv027.6_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 05mov_aug0.mid
(deflated 22%)
  adding: kaggle/working/Bach_augmented/013702b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/022707b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/032400b__aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/015905b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0525 Sonate en trio n1_aug2.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
2mov_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv0539 Prelude and Fugue_aug0.mid
(deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 4mov_aug1.mid
(deflated 28%)

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adding: kaggle/working/Bach_augmented/007906b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
2mov_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv004.8_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/038500b__aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/036700b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.13_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/006707b__aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/011007b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv0816 French Suite n5_aug0.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/08. Chor Qui Tollis _aug1.mid (deflated
29%)
adding: kaggle/working/Bach_augmented/016806b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/022602bv_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv0789 Sinfonia n3_aug1.mid (deflated
30%)
adding: kaggle/working/Bach_augmented/024403b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/042500b__aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 09mov _aug1.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/032100b__aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv0799 Sinfonia n13_aug0.mid (deflated
29%)
adding: kaggle/working/Bach_augmented/037600b__aug1.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/024817b2_aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/028600b__aug2.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/028800b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/invent11_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/022709b__aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Variation 29_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/014403b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/3.Gebt mir meinen Jesum weider Bass
Aria_aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/070000b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/024823bs_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Wtcii07b_aug0.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/019007b__aug2.mid (deflated 34%)
adding: kaggle/working/Bach_augmented/invent10_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/015606b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/004606bs_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/066800b__aug1.mid (deflated 33%)
adding: kaggle/working/Bach_augmented/Bwv007.7_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/024444b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/013306b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/5.Erbarme dicht, mein Gott Alto
Aria_aug2.mid (deflated 25%)
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  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Bouree_aug0.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv031.9_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/024842bs_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/02. Christe Eleison _aug2.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 07mov _aug2.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv786 Invention n15_aug1.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/017705bv_aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Variation 00 Aria _aug0.mid (deflated
28%)
  adding: kaggle/working/Bach_augmented/Bwv774 Invention n03_aug1.mid (deflated
25%)
  adding: kaggle/working/Bach_augmented/03. Kyrie Eleison _aug1.mid (deflated
31%)
  adding: kaggle/working/Bach_augmented/031400b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/035800b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/007408b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0797 Sinfonia n11_aug1.mid (deflated
28%)
  adding: kaggle/working/Bach_augmented/Bwv030.6_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/030000b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/017507ch_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv001_aug0.mid (deflated 37%)
  adding: kaggle/working/Bach_augmented/003806b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/21. Benedictus _aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv0570 Fantasia_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/037800b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/031800b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 04mov _aug0.mid
(deflated 22%)
  adding: kaggle/working/Bach_augmented/019007ch_aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/bsgjg_i_aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/015905b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0535 Prelude and Fugue_aug2.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv017.7_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/035300b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/038400b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/043200b__aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0543 Prelude and Fugue_aug1.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0938 Little Prelude n6_aug1.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv007.7_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0537 Fantasia and Fugue_aug1.mid
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(deflated 28%)
  adding: kaggle/working/Bach_augmented/042100b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/AveMaria_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/invent2_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Variation 02_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1051 Brandenburg Concert n6
3mov_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0790 Sinfonia n4_aug2.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/19. Sanctus _aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 11_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/031400b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/076905b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
3mov_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/022709b__aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/013906b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0936 Little Prelude n4_aug0.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv025.6_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0794 Sinfonia n8_aug2.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/Bwv0536 Prelude and Fugue_aug2.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/037200b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
6mov_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/036800b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1049 Brandenburg Concert n4
1mov_aug0.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv031.9_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/039700b__aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Variation 03_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.7_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/007807b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0935 Little Prelude n3_aug1.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/Simple Fugue Inverted Subject
n2_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/024432b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0590 Pastorale_aug2.mid (deflated
28%)
  adding: kaggle/working/Bach_augmented/042100b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/066200b__aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Bwv1063 Three Harpsichords Concerto
n1_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/022602b__aug1.mid (deflated 30%)
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adding: kaggle/working/Bach_augmented/Bwv0540 Toccata and Fugue_aug2.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/009408b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/013701b__aug1.mid (deflated 35%)
  adding: kaggle/working/Bach_augmented/Bwv0788 Sinfonia n2_aug2.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/Bwv1046 Brandenburg Concert n1
2mov_aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/065500b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/003806b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/029700b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/012206b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/6.Herzliebster Jesu Chorus_aug2.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Wtcii11a_aug1.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/040800b__aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/010806b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/004207b__aug2.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/13 Marche_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/007903bs_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/014001b__aug0.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/Bwv1041 Violin Concerto n1 2mov_aug0.mid
(deflated 30%)
  adding: kaggle/working/Bach_augmented/022703b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv020.11_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/033600b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/041400b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/14 Polonaise_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/012606bv_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/031200b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/035400b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/012306b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/2.Aus Liebe will mein Heiland sterban
Soprano Aria_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/042800b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/041900b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/03. Kyrie Eleison _aug2.mid (deflated
31%)
  adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto n1
2mov_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/041100b__aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Variation 07_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv025.6v1_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/029000b__aug0.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/033100b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/004507b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/017106b__aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Bwv011.6_aug1.mid (deflated 30%)
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adding: kaggle/working/Bach_augmented/15 Musette_aug2.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/035000b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Double Fugue n2_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/040100b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/bsgjg_d_aug2.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
7mov_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0549 Prelude and Fugue_aug0.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/Wtcii06b_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Variation 08_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/025200b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/011704v2_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/040400b__aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/02. Christe Eleison _aug0.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/Prelude from Sonata n6_aug1.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/015301b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv782 Invention n11_aug2.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/Bwv0937 Little Prelude n5_aug0.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Variation 30_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto
n1b_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/065100b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/009106ch_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/027300b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1005 Violin Sonata n3 2mov
Fugue_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/003706b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/10 Menuet_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv1055 Harpsichord Concerto n4
1mov_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/18. Confiteor_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/034600b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv016.6_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/024415b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/004106b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1041 Violin Concerto n1 1mov_aug2.mid
(deflated 31%)
  adding: kaggle/working/Bach_augmented/043000b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/12. Chor Credo In Unum Deum _aug0.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/024859b6_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/024514b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Mirror Fugue n2_aug2.mid (deflated 27%)
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adding: kaggle/working/Bach_augmented/Wtcii21b_aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/060800qt _aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto n1
3mov_aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/08. Chor Qui Tollis _aug0.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/032300b__aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv0816 French Suite n5_aug1.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/042300b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Wtcii24a_aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Simple Fugue Regular Subject n2_aug2.mid
(deflated 28%)
  adding: kaggle/working/Bach_augmented/065100b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Wtcii09b_aug2.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/009209b__aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Canon Fugue n4_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/024823bs_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/109100b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Polonais_aug1.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Bwv0590 Pastorale_aug0.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/025400b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/033700b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/009106b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 8mov_aug1.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/040700b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii24a_aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/043400b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.11_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/035600b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Variation 28_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/040300b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/036600b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0538 Toccata and Fugue
''Dorian''_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/014406b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/036600b__aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv0543 Prelude and Fugue_aug2.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/027100b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/034300b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/024446b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/042200b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 3mov_aug0.mid
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(deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0531 Prelude and Fugue_aug2.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/024864b6_aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Variation 20_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv781 Invention n10_aug2.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/032800b__aug2.mid (deflated 36%)
  adding: kaggle/working/Bach_augmented/invent4_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0550 Prelude and Fugue_aug0.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Bouree_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv019.7_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1064 Three Harpsichords Concerto n2
1mov_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Wtcii20b_aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv780 Invention n09 _aug1.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/040800b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Wtcii23b_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/028100b__aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv013.6_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/009709ch_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/004311b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.9_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Wtcii10b_aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
2mov_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/039000b__aug0.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/009209b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/007305b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1041 Violin Concerto n1 3mov_aug0.mid
(deflated 30%)
  adding: kaggle/working/Bach_augmented/Wtcii11b_aug1.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/Bwv0796 Sinfonia n10_aug1.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 8mov_aug0.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv1058 Harpsichord Concerto n7
1mov_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/016907b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 04_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Canon Fugue n2_aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Wtcii13b_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/007607b__aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/The Art of the Fugue BWV1080_aug2.mid
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(deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1060 Two Harpsichords Concerto
n1_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Badineri_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral suite n3
Gigue_aug1.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/005505b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/037700b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/007706b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/024864bs_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 15_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/024828b3_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/035100b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Wtcii18b_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/21. Benedictus _aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Sarabande_aug2.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/013703b__aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/010107b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/008008b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0798 Sinfonia n12_aug2.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/Variation 26_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/026300b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/008405b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/008906b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/The Art of the Fugue BWV1080_aug1.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/022709b__aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Bwv027.6_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0733 Fuga Sopra Magnificat_aug0.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/027200b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/01. Kyrie Eleison _aug2.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/028200b__aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/011704v1_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/03 Menuet_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/033400b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/011407b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/016406b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/bsgjg_b_aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv020.11_aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/017906b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/030200b__aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto n1
2mov_aug0.mid (deflated 27%)
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adding: kaggle/working/Bach_augmented/007206b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/028300b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0533 Prelude and Fugue_aug2.mid
(deflated 26%)
adding: kaggle/working/Bach_augmented/010306b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv019.7_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/018707b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/009507b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0998 Prelude Fugue Allegro for Lute
1mov_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/026500b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/22. Agnus Dei_aug0.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/9.0 Haupt voll Blut und Wunden
Chorus_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv025.6v2_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/028600b__aug1.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/014907b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv1087 14 Canons_aug0.mid (deflated
30%)
adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto n1
1mov_aug1.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/011106b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv0541 Prelude and Fugue_aug2.mid
(deflated 25%)
adding: kaggle/working/Bach_augmented/013705b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1005 Violin Sonata n3 2mov
Fugue_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv006.3_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1014 Harpsicord and Violin Sonata
3mov_aug2.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv0593 Vivaldi Concerto Arrangement
RV522_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1056 Harpsichord Concerto n5_aug1.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/017206ch_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv786 Invention n15_aug0.mid (deflated
30%)
adding: kaggle/working/Bach_augmented/037900b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.9_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/012008ba_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/011205b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/030700b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Variation 17_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1053 Harpsichord Concerto n2
1mov_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.10_aug0.mid (deflated 30%)
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adding: kaggle/working/Bach_augmented/Bwv0906 Fantasia and Fugue_aug2.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 5mov_aug1.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/029300b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/18. Confiteor_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/034400b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/012805b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/042100b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/013606b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1041 Violin Concerto n1 1mov_aug1.mid
(deflated 31%)
  adding: kaggle/working/Bach_augmented/029600b__aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/011506b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0967 Sonata_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv001.6_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/030800b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/009408b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii08b_aug2.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/012206b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0938 Little Prelude n6_aug2.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv019.7ch_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0529 Sonate en trio n5_aug1.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/037400b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto n1
1mov_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
5mov_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/015606b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/011308b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Bouree_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/024417b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii05b_aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/012106b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/016907b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1014 Harpsicord and Violin Sonata
4mov_aug1.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.14_aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/033500bv_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/014001b__aug2.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/019406b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/028800b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/05. Aria For Soprano _aug1.mid (deflated
26%)
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adding: kaggle/working/Bach_augmented/21. Benedictus _aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 03mov _aug2.mid
(deflated 22%)
  adding: kaggle/working/Bach_augmented/14. Duet In Unum _aug2.mid (deflated
26%)
  adding: kaggle/working/Bach_augmented/025400b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 3mov_aug1.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/008305b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv012.7_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/bsgjg_e_aug1.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/014007b__aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/022602bv_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 7mov_aug0.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/Unfinished Fugue_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto n1
3mov_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/014403b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Variation 21_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/038200b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 04mov _aug1.mid
(deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv0528 Sonate en trio n4_aug0.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/1.Bass Aria_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1044 Flute Violin and Harpsichord
Concerto 1mov_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/042900b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/015505b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Forlane_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv0528 Sonate en trio n4_aug1.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/010006b__aug1.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/030200b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv1055 Harpsichord Concerto n4
3mov_aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Rejouissance_aug0.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Wtcii22b_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/10 Menuet_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/004008b__aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/009106b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/030800b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv004.8_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/014706b__aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv0815 French Suite n4_aug2.mid
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(deflated 29%)
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  adding: kaggle/working/Bach_augmented/039300b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/031800b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/064700b__aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Rejouissance_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/14. Duet In Unum _aug0.mid (deflated
26%)
  adding: kaggle/working/Bach_augmented/009606b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0525 Sonate en trio n1_aug0.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/043700b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/039300b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/006106b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
5mov_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/bsgjg_f_aug2.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/014907ch_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/039300b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/024462bv_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1042 Violin Concerto n2 1mov_aug0.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/Wtcii03b_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Polonais_aug0.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Bwv1053 Harpsichord Concerto n2
2mov_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/008305b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/019406bv_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0551 Prelude and Fugue_aug1.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/024835b3_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/026600b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/024462b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/024503b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv802 Four Inventions (Duettos)
Clavier-U"bung III n1_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/007807b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/031800b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/040400bv_aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Variation 16_aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/006402b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/014608b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Triple Fugue n1_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/invent15_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1014 Harpsicord and Violin Sonata
2mov_aug0.mid (deflated 23%)
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adding: kaggle/working/Bach_augmented/027100b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/13. Chor Patrem Omnipotentem _aug2.mid
(deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 10mov _aug0.mid
(deflated 25%)
adding: kaggle/working/Bach_augmented/Wtcii10b_aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Gavotte_aug1.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
1mov_aug2.mid (deflated 28%)
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adding: kaggle/working/Bach_augmented/029300b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/028300b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Rejouissance_aug2.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/065400b__aug0.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Variation 09_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
4mov_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/042400b__aug0.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Wtcii21b_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/009207b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
6mov_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/026800b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv0543 Prelude and Fugue_aug0.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/009307b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0937 Little Prelude n5_aug2.mid
(deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Gavotte_aug1.mid (deflated 21%)
adding: kaggle/working/Bach_augmented/027900b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/016206b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/040000b__aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
6mov_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
7mov_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/032600b__aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/007607b__aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Bwv777 Invention n06_aug1.mid (deflated
30%)
adding: kaggle/working/Bach_augmented/Clavierubung Part 111,Duet No.2 in F
Major_aug1.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/073800b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/034500b__aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/051000b__aug0.mid (deflated 30%)
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adding: kaggle/working/Bach_augmented/028400b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0790 Sinfonia n4_aug0.mid (deflated
30%)
adding: kaggle/working/Bach_augmented/065700b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/034000b__aug0.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Courante_aug1.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv1005 Violin Sonata n3 1mov
Adagio_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv006.6_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/066500b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/076904b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/016206b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/007514b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv0552 Prelude and Fugue ''St.
Anne''_aug0.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/038000b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/030100b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/035000b__aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/076903b__aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 4mov_aug0.mid
(deflated 28%)
adding: kaggle/working/Bach_augmented/Variation 03_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/065300b__aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 4mov_aug2.mid
(deflated 29%)
adding: kaggle/working/Bach_augmented/017206b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
4mov_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv018a.5_aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/031500b__aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/031400b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/invent13_aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/012705b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/006404b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/10. Aria Quoniam_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/031200b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/033500bv_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Toccata and Fugue in D minor, BWV 565.
(Busoni Piano Arr_aug0.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/invent5_aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/040000b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/026200b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.5_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1051 Brandenburg Concert n6
3mov_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0561 Fantasie and Fuga_aug1.mid
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(deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1046 aSinfonia h_aug1.mid (deflated
25%)
  adding: kaggle/working/Bach_augmented/037000b__aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 10mov _aug2.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv002.6_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.14_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/031700b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv018a.5_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/034100b__aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/031900b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/3.Gebt mir meinen Jesum weider Bass
Aria_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0535 Prelude and Fugue_aug1.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0792 Sinfonia n6_aug2.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/039400b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/027900b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1055 Harpsichord Concerto n4
3mov_aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/039700b__aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/015309b__aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0555 Short Prelude and Fugue n3
(Spurious)_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Simple Fugue Inverted Subject
n2_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/066600b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/064600b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Wtcii09b_aug0.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/032600b__aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv1054 Harpsichord Concerto n3
1mov_aug2.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/025400b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/024828b3_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0565 Toccata and Fugue In Dm
B_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto n1
2mov_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
4mov_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii07b_aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/076902b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Wtcii24a_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/018405b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/014608b__aug1.mid (deflated 28%)
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adding: kaggle/working/Bach_augmented/029600b__aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/006906b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Minuet in G_aug1.mid (deflated 20%)
adding: kaggle/working/Bach_augmented/005708b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Variation 12_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/004003b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/026300b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/039600b__aug2.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/026800b__aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/034000b__aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Bwv779 Invention n08 _aug0.mid (deflated
30%)
adding: kaggle/working/Bach_augmented/Bwv1058 Harpsichord Concerto n7
3mov_aug0.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/006704b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/030800b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv773 Invention n02_aug2.mid (deflated
25%)
adding: kaggle/working/Bach_augmented/011506bv_aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/11. Chor Cum Sancto _aug1.mid (deflated
27%)
adding: kaggle/working/Bach_augmented/Bwv775 Invention n04_aug0.mid (deflated
27%)
adding: kaggle/working/Bach_augmented/bsgjg_g_aug2.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/20. Osanna _aug2.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/Canon Fugue n3_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/17 Polonaise_aug1.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/024415b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/031500b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/024515B__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/019705b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/024462b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/039700b__aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv0938 Little Prelude n6_aug0.mid
(deflated 25%)
adding: kaggle/working/Bach_augmented/038600b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv016.6_aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Prelude and Fugue in C Sharp BWV
872_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/033300b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
4mov_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1064 Three Harpsichords Concerto n2
2mov_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/013306b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/024511b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/015309b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1049 Brandenburg Concert n4
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1mov_aug1.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/065300b__aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/018806b__aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Overture_aug2.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/025700b__aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/036700b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv005.7_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/013906b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/022701b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv775 Invention n04_aug1.mid (deflated
28%)
  adding: kaggle/working/Bach_augmented/Bwv780 Invention n09 _aug2.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/invent12_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 1mov_aug0.mid
(deflated 28%)
  adding: kaggle/working/Bach_augmented/060800b_ _aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/05 Polonaise_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/043800b__aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/01 Menuet_aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/038700b__aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/032800b__aug1.mid (deflated 37%)
  adding: kaggle/working/Bach_augmented/06 Menuet_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/043000b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/066100b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/038600b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv012.7_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1064 Three Harpsichords Concerto n2
1mov_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.12_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
1mov_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
5mov_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Wtcii02b_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/007903bs_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/009106ch_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/004606b__aug2.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/024514b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/007614b__aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Bwv0561 Fantasie and Fuga_aug2.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Double Fugue n1_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0557 Short Prelude and Fugue n5
(Spurious)_aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/009606b__aug1.mid (deflated 28%)
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adding: kaggle/working/Bach_augmented/024842bs_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0554 Short Prelude and Fugue n2
(Spurious)_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/027400b__aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/018506b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1005 Violin Sonata n3 3mov
Largo_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/041000b__aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/040600b__aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/011007b__aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/invent10_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/13 Marche_aug2.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/027400b__aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Wtcii08b_aug0.mid (deflated 34%)
adding: kaggle/working/Bach_augmented/Bwv014.5_aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/024417bv_aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/036700b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/8.Mache dich mein herz Bass
Aria_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Rondeau_aug1.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/007906b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/036000b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/042900b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/013705ch_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/040400b__aug1.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
4mov_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/005206b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/024809bs_aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/017807b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/035700b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1057 Harpsichord Concerto n6
2mov_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/018506b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0529 Sonate en trio n5_aug0.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/012606b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Wtcii08b_aug1.mid (deflated 34%)
adding: kaggle/working/Bach_augmented/012206b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv028.6_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/022711b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Gavotte_aug2.mid (deflated 21%)
adding: kaggle/working/Bach_augmented/024410b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 1mov_aug1.mid
(deflated 28%)
adding: kaggle/working/Bach_augmented/036300b__aug1.mid (deflated 28%)
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  adding: kaggle/working/Bach_augmented/Bwv1014 Harpsicord and Violin Sonata
4mov_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/017507ch_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 02mov _aug2.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/006005b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0526 Sonate en trio n2_aug2.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1046 Brandenburg Concert n1
3mov_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Wtcii16b_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/006206b__aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Courante_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/033000b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/037200b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1005 Violin Sonata n3 4mov
Allegro_aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/017106b__aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/009906b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.15_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/014608b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0546 Prelude and Fugue_aug1.mid
(deflated 29%)
  adding: kaggle/working/Bach_augmented/Variation 06_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv005.7_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/026400b__aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/039200b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/005206b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/23. Donna Nobis Pacem _aug1.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/024310b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv785 Invention n14 _aug1.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/003706b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0788 Sinfonia n2_aug1.mid (deflated
28%)
  adding: kaggle/working/Bach_augmented/065900b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 3mov_aug1.mid
(deflated 30%)
  adding: kaggle/working/Bach_augmented/025500b__aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/008107b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/invent5_aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv785 Invention n14 _aug0.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
5mov_aug0.mid (deflated 28%)
```

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adding: kaggle/working/Bach_augmented/004106bs_aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Canon Fugue n1_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 2mov_aug1.mid
(deflated 28%)
  adding: kaggle/working/Bach_augmented/Simple Fugue Inverted Subject
n1_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/033800b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/024511b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Counter Fugue n1_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/031100b__aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Bwv0544 Prelude and Fugue_aug1.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/066400b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/033300b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/018806b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/010107b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1043 Two Violins Concerto n3
1mov_aug0.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/004106b__aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv003.6_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/012705b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/043100b__aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/014806bv_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/064800b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0801 Sinfonia n15_aug2.mid (deflated
25%)
  adding: kaggle/working/Bach_augmented/Wtcii22b_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/034300b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Menuet_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Variation 10_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/040700b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Triple Fugue n2_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/10.Wir setzen uns mit Tra"nen nieder
Chorus_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0552 Prelude and Fugue ''St.
Anne''_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 03mov _aug0.mid
(deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv1042 Violin Concerto n2 1mov_aug1.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/bsgjg_l_aug1.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/bsgjg_k_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/014806b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 26_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/038300b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/004003b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii10a_aug0.mid (deflated 32%)
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adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 06mov _aug1.mid
(deflated 22%)
  adding: kaggle/working/Bach_augmented/069400b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Bouree_aug2.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv1063 Three Harpsichords Concerto
n1_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii23b_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/030400b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/038400b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/015301b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
1mov_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/invent15_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.4_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
5mov_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/043100b__aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/066300b__aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/022711b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv776 Invention n05_aug1.mid (deflated
28%)
  adding: kaggle/working/Bach_augmented/Bwv0550 Prelude and Fugue_aug2.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
3mov_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/034800b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv033.6_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/039100b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Canon Fugue n1_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/014710b__aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/024846b5_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Variation 09_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/030300b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Mirror Fugue n2_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0563 Fantasie con imitation_aug0.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/025100b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/039800b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/004311b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Menuet_aug0.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/069000b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Simple Fugue Regular Subject n1_aug0.mid
(deflated 31%)
  adding: kaggle/working/Bach_augmented/bsgjg_g_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/043600b__aug2.mid (deflated 31%)
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adding: kaggle/working/Bach_augmented/030500b__aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/007408b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/bsgjg_l_aug0.mid (deflated 21%)
adding: kaggle/working/Bach_augmented/004008b__aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv0594 Vivaldi Concerto Arrangement
RV208_aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv010.7_aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/025000b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/024515B__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/017206vn_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0554 Short Prelude and Fugue n2
(Spurious)_aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Mirror Fugue n1_aug2.mid (deflated 29%)
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(deflated 25%)
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(deflated 25%)
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adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Bourree_aug0.mid (deflated 22%)
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5mov_aug1.mid (deflated 30%)
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1mov_aug1.mid (deflated 23%)
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1mov_aug2.mid (deflated 23%)
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(deflated 27%)
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  adding: kaggle/working/Bach_augmented/060800qt _aug0.mid (deflated 30%)
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Concerto 3mov_aug2.mid (deflated 26%)
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  adding: kaggle/working/Bach_augmented/038900b__aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/13. Chor Patrem Omnipotentem _aug1.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/033700b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1053 Harpsichord Concerto n2
3mov_aug2.mid (deflated 25%)
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Forlane_aug0.mid (deflated 23%)
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  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 7mov_aug1.mid
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  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.7_aug2.mid (deflated 29%)
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  adding: kaggle/working/Bach_augmented/Bwv1047 Brandenburg Concert n2
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  adding: kaggle/working/Bach_augmented/013807b__aug0.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/Variation 02_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/015705b__aug2.mid (deflated 28%)
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Menuet_aug0.mid (deflated 22%)
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B_aug0.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/4.Blute nur du liebes Herz Soprano
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  adding: kaggle/working/Bach_augmented/030600b__aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/3.Gebt mir meinen Jesum weider Bass
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Concerto_aug2.mid (deflated 25%)
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25%)
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2mov_aug0.mid (deflated 25%)
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  adding: kaggle/working/Bach_augmented/bsgjg_a_aug2.mid (deflated 22%)
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6mov_aug0.mid (deflated 30%)
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(deflated 25%)
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  adding: kaggle/working/Bach_augmented/Bwv0998 Prelude Fugue Allegro for Lute
3mov_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0590 Pastorale_aug1.mid (deflated
28%)
  adding: kaggle/working/Bach_augmented/036400b__aug1.mid (deflated 26%)
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inventions No.3_aug1.mid (deflated 26%)
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1mov_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/016606b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/024417bv_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv004.8_aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/06. Chor Gratias Animus Tibi _aug1.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1044 Flute Violin and Harpsichord
Concerto 2mov_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
3mov_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1046 Brandenburg Concert n1
1mov_aug1.mid (deflated 28%)
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adding: kaggle/working/Bach_augmented/bsgjg_f_aug0.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/025800b__aug0.mid (deflated 31%)
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Adagio_aug0.mid (deflated 29%)
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Fugue_aug2.mid (deflated 30%)
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(deflated 26%)
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(deflated 28%)
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adding: kaggle/working/Bach_augmented/Bwv006.6_aug1.mid (deflated 27%)
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1mov_aug1.mid (deflated 31%)
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adding: kaggle/working/Bach_augmented/Toccata and Fugue in D minor, BWV 565.
(Busoni Piano Arr_aug2.mid (deflated 23%)
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adding: kaggle/working/Bach_augmented/016206b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Variation 01_aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Canon Fugue n3_aug2.mid (deflated 30%)
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adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
4mov_aug1.mid (deflated 31%)
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Passpied_aug2.mid (deflated 22%)
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adding: kaggle/working/Bach_augmented/017507ch_aug0.mid (deflated 29%)
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adding: kaggle/working/Bach_augmented/036300b__aug2.mid (deflated 29%)
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2mov_aug2.mid (deflated 23%)
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adding: kaggle/working/Bach_augmented/Wtcii11a_aug0.mid (deflated 34%)
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adding: kaggle/working/Bach_augmented/02 Menuet_aug0.mid (deflated 23%)
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Bourree_aug2.mid (deflated 22%)
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Bourree_aug1.mid (deflated 22%)
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adding: kaggle/working/Bach_augmented/022602bv_aug1.mid (deflated 30%)
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inventions No.5_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
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2mov_aug2.mid (deflated 22%)
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  adding: kaggle/working/Bach_augmented/014907ch_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Wtcii11b_aug0.mid (deflated 34%)
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3mov_aug2.mid (deflated 26%)
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  adding: kaggle/working/Bach_augmented/bsgjg_d_aug1.mid (deflated 22%)
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  adding: kaggle/working/Bach_augmented/041800b__aug1.mid (deflated 27%)
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  adding: kaggle/working/Bach_augmented/Bwv018.5_aug1.mid (deflated 29%)
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Sarabande_aug0.mid (deflated 22%)
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  adding: kaggle/working/Bach_augmented/015408b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
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(deflated 23%)
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  adding: kaggle/working/Bach_augmented/007305bv_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/018007bv_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Wtcii13b_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/025800b__aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/026000b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/006206b__aug2.mid (deflated 26%)
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  adding: kaggle/working/Bach_augmented/Bwv1055 Harpsichord Concerto n4
1mov_aug0.mid (deflated 27%)
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Anne''_aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/024809b1_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 10mov _aug1.mid
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Chorus_aug1.mid (deflated 27%)
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''Dorian''_aug1.mid (deflated 28%)
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adding: kaggle/working/Bach_augmented/Bwv1055 Harpsichord Concerto n4
2mov_aug0.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv1055 Harpsichord Concerto n4
3mov_aug0.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/Bwv0593 Vivaldi Concerto Arrangement
RV522_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/069100b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/010006b__aug2.mid (deflated 34%)
adding: kaggle/working/Bach_augmented/006704b__aug0.mid (deflated 30%)
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adding: kaggle/working/Bach_augmented/073800b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/13. Chor Patrem Omnipotentem _aug0.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/014505b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 16_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/037900b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/008405b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Canon Fugue n4_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/018007b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/028500b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/014007b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv775 Invention n04_aug2.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/034900b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/042200b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/041600b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/027700b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/039100b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0794 Sinfonia n8_aug0.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
2mov_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
2mov_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/039900b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/037700b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Variation 09_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/026900b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/065700b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/009106ch_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Overture_aug0.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/018305b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/025600b__aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/024522b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/024842bs_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1005 Violin Sonata n3 4mov
Allegro_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/03 Menuet_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/bsgjg_a_aug0.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv784 Invention n13 _aug0.mid (deflated
31%)
  adding: kaggle/working/Bach_augmented/016606b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/064700b__aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/029200b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0791 Sinfonia n5_aug1.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/Bwv0560 Short Prelude and Fugue n8
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(Spurious)_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/025900b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/036500b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1042 Violin Concerto n2 2mov_aug1.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv001.6_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/008707b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/016506b__aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv1014 Harpsicord and Violin Sonata
1mov_aug0.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/015505b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0559 Short Prelude and Fugue n7
(Spurious)_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 23_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/016806b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/007305bv_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Variation 23_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Wtcii03b_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/bsgjg_e_aug2.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
2mov_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/028200b__aug0.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv776 Invention n05_aug0.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/011704b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv0934 Little Prelude n2_aug1.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/025100b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/033900b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Overture_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/041200b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/invent8_aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/22. Agnus Dei_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Menuet_aug2.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv1042 Violin Concerto n2 3mov_aug0.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/024853b5_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Menuet_aug2.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/Wtcii01b_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0798 Sinfonia n12_aug0.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 07mov _aug1.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/035600b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0582 Passacaglia and Fugue
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(Orchestral)_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv025.6v1_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/040100b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/bsgjg_j_aug2.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv024.6_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/018405b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/008107b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0527 Sonate en trio n3_aug0.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv1056 Harpsichord Concerto n5_aug0.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/011606b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/07. Duet Domine Deus _aug1.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/Bwv1053 Harpsichord Concerto n2
3mov_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/07. Duet Domine Deus _aug0.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
2mov_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/007305bv_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/032000b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/010602b__aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/014806bv_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/9.0 Haupt voll Blut und Wunden
Chorus_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral suite n3
Gigue_aug0.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/003806b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/037100b__aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Wtcii14b_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0582 Passacaglia and Fugue
(Orchestral)_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv033.6_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/024444b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii13b_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 5mov_aug1.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 2mov_aug2.mid
(deflated 28%)
  adding: kaggle/working/Bach_augmented/024437b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/026400b__aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/15. Et Incarnatus & Cricifixus_aug0.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/Wtcii10b_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv0540 Toccata and Fugue_aug1.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/039800b__aug2.mid (deflated 28%)
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adding: kaggle/working/Bach_augmented/014907b__aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/038800b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv030.6v_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/030400b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/038700b__aug0.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/009801b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/069400b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.10_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/039600b__aug1.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv036(2).4_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/017206vn_aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/028900b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/013705ch_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/031200b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv020.7_aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/027300b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/040700b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/014505bv_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/024809b1_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/9.0 Haupt voll Blut und Wunden
Chorus_aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/017507b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/006507b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Simple Fugue Regular Subject n2_aug1.mid
(deflated 28%)
adding: kaggle/working/Bach_augmented/073800b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/012106b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1054 Harpsichord Concerto n3
3mov_aug0.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/12 Polonaise_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
6mov_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/026400b__aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/029500b__aug2.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/024823bs_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/011704v2_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/027600b__aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/031900b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0563 Fantasie con imitation_aug2.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/Canon Fugue n4_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv024.6s_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/06 Menuet_aug2.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.15_aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/010406bv_aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/035700b__aug1.mid (deflated 29%)
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  adding: kaggle/working/Bach_augmented/Bwv003.6v_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/037400b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/17. Bass Aria Et In Spritum _aug1.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0801 Sinfonia n15_aug1.mid (deflated
25%)
  adding: kaggle/working/Bach_augmented/Bwv778 Invention n07_aug0.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/109100b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/008008b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/024805b1_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/040900bv_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/006906bav_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/01 Menuet_aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/024440b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/066000b__aug1.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/07. Duet Domine Deus _aug2.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/Variation 13_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv0996 Suite for Lute_aug0.mid
(deflated 29%)
  adding: kaggle/working/Bach_augmented/024515B__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/bsgjg_j_aug0.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv786 Invention n15_aug2.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/20. Osanna _aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Wtcii23b_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/006906ba_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Gavotte_aug0.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/12. Chor Credo In Unum Deum _aug1.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/024415bv_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.1_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/006005b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto
n1b_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/036800b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/029000b__aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/16 Marche_aug1.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
3mov_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Simple Fugue Inverted Subject
n2_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/024812b2_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/10. Aria Quoniam_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 28_aug1.mid (deflated 29%)
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adding: kaggle/working/Bach_augmented/024823b2_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 6mov_aug0.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/11 Marche_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/014806bv_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/024444b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1046 Brandenburg Concert n1
1mov_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/004507b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 7mov_aug2.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/004803b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv002.6_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/004807b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/013506b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii04b_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/017405b__aug1.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/Bwv029.8_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Variation 07_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0566 Prelude and Fugue_aug2.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/018007bv_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/17 Polonaise_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/034900b__aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/040200b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Unfinished Fugue_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv777 Invention n06_aug2.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/024526b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/037900b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/029400b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/028000b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/16. Et Ressurexit_aug0.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/16 Marche_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/014406b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv028.6_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 24_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
1mov_aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/017606b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0799 Sinfonia n13_aug1.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/012006b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Overture_aug0.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/042300b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/026200b__aug1.mid (deflated 28%)
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adding: kaggle/working/Bach_augmented/Unfinished Fugue_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv1044 Flute Violin and Harpsichord
Concerto 3mov_aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/16. Et Ressurexit_aug2.mid (deflated
26%)
adding: kaggle/working/Bach_augmented/006408b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/040900bv_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/036100b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/024522b__aug1.mid (deflated 27%)
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Adagio_aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/029500b__aug0.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.12_aug2.mid (deflated 30%)
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3mov_aug1.mid (deflated 26%)
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adding: kaggle/working/Bach_augmented/Wtcii04b_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv0815 French Suite n4_aug1.mid
(deflated 29%)
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adding: kaggle/working/Bach_augmented/23. Donna Nobis Pacem _aug0.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/Bwv0998 Prelude Fugue Allegro for Lute
2mov_aug1.mid (deflated 30%)
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(deflated 25%)
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30%)
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2mov_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv010.7_aug1.mid (deflated 27%)
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adding: kaggle/working/Bach_augmented/015705b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv001.6_aug0.mid (deflated 30%)
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3mov_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/040900b__aug0.mid (deflated 28%)
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30%)
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adding: kaggle/working/Bach_augmented/009906b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/006402b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Variation 19_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/invent11_aug0.mid (deflated 30%)
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3mov_aug2.mid (deflated 27%)
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adding: kaggle/working/Bach_augmented/015606b__aug0.mid (deflated 28%)
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Largo_aug2.mid (deflated 27%)
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adding: kaggle/working/Bach_augmented/024415bv_aug0.mid (deflated 26%)
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(deflated 22%)
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adding: kaggle/working/Bach_augmented/032800b__aug0.mid (deflated 37%)
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adding: kaggle/working/Bach_augmented/005903b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/032000b__aug2.mid (deflated 30%)
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(deflated 24%)
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n3_aug1.mid (deflated 25%)
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3mov_aug1.mid (deflated 27%)
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adding: kaggle/working/Bach_augmented/06. Chor Gratias Animus Tibi _aug2.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0906 Fantasia and Fugue_aug0.mid
(deflated 22%)
adding: kaggle/working/Bach_augmented/Prelude and Fugue in A, BWV 888_aug0.mid
(deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Gavotte_aug2.mid (deflated 23%)
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(deflated 25%)
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Overture_aug1.mid (deflated 22%)
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29%)
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  adding: kaggle/working/Bach_augmented/Bwv0816 French Suite n5_aug2.mid
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  adding: kaggle/working/Bach_augmented/007706b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Double Fugue n1_aug0.mid (deflated 30%)
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(deflated 30%)
  adding: kaggle/working/Bach_augmented/bsgjg_k_aug2.mid (deflated 26%)
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(deflated 24%)
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  adding: kaggle/working/Bach_augmented/008606b__aug0.mid (deflated 27%)
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Menuet_aug1.mid (deflated 21%)
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3mov_aug1.mid (deflated 24%)
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  adding: kaggle/working/Bach_augmented/Counter Fugue n3_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/036500b__aug1.mid (deflated 26%)
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29%)
  adding: kaggle/working/Bach_augmented/Bwv018.5_aug0.mid (deflated 28%)
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  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Overture_aug2.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Variation 19_aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/069100orn_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/12. Chor Credo In Unum Deum _aug2.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv024.6s_aug2.mid (deflated 28%)
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  adding: kaggle/working/Bach_augmented/033400b__aug2.mid (deflated 27%)
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(Spurious)_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/024462bv_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/7.Ko"nnen Tra"nen meiner Wangen nichts
erlangen Alto Aria_aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/05 Polonaise_aug1.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/Bwv0565 Toccata and Fugue In Dm
B_aug1.mid (deflated 23%)
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(deflated 24%)
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Rondeau_aug2.mid (deflated 23%)
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3mov_aug0.mid (deflated 26%)
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(Spurious)_aug1.mid (deflated 29%)
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Overture_aug1.mid (deflated 23%)
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adding: kaggle/working/Bach_augmented/Variation 00 Aria _aug2.mid (deflated
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2mov_aug2.mid (deflated 23%)
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adding: kaggle/working/Bach_augmented/030300b__aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/034400b__aug0.mid (deflated 27%)
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3mov_aug0.mid (deflated 29%)
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adding: kaggle/working/Bach_augmented/025600b__aug2.mid (deflated 31%)
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adding: kaggle/working/Bach_augmented/041200b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Variation 24_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0538 Toccata and Fugue
''Dorian''_aug2.mid (deflated 28%)
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Rondeau_aug0.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/010406bv_aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
1mov_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/017606b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/AveMaria_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/022602b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/006606b__aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 01mov _aug2.mid
(deflated 23%)
adding: kaggle/working/Bach_augmented/015403b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/026700ba_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0936 Little Prelude n4_aug2.mid
(deflated 26%)
adding: kaggle/working/Bach_augmented/011704v1_aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/027400b__aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv032.6_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0992 Capriccio_aug0.mid (deflated
25%)
adding: kaggle/working/Bach_augmented/006507b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/024503b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Variation 08_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1055 Harpsichord Concerto n4
2mov_aug1.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv0789 Sinfonia n3_aug0.mid (deflated
30%)
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adding: kaggle/working/Bach_augmented/022707b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/109100b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0540 Toccata and Fugue_aug0.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv001_aug1.mid (deflated 37%)
adding: kaggle/working/Bach_augmented/bsgjg_k_aug0.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/017206b__aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/008807b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv025.6_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/018806b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Double Fugue n1_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv019.7ch_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/026500b__aug1.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/Bwv774 Invention n03_aug0.mid (deflated
24%)
adding: kaggle/working/Bach_augmented/009709b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/032100b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/016106b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/036000b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/019007ch_aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv0531 Prelude and Fugue_aug0.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/060800b_ _aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/008107b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/009709b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/014710b__aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/009801b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/014505bv_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Overture_aug1.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/013703b__aug0.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/012306b__aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/007011b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.1_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/18. Confiteor_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/004705b__aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv0532 Toccata and Fugue_aug1.mid
(deflated 25%)
adding: kaggle/working/Bach_augmented/024537b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv036(2).4_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/024528b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/011506bv_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/015408b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/005605b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/019412b__aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/10. Aria Quoniam_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/042500b__aug2.mid (deflated 32%)
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adding: kaggle/working/Bach_augmented/010806b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Prelude and Fugue in C Sharp BWV
872_aug1.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/022902b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/019710b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv018a.5_aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1051 Brandenburg Concert n6
3mov_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/004006b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1054 Harpsichord Concerto n3
1mov_aug1.mid (deflated 21%)
adding: kaggle/working/Bach_augmented/Variation 29_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/065800b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/012606b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1064 Three Harpsichords Concerto n2
2mov_aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/043300b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/013506b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/invent9_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/034500b__aug2.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv0547 Prelude and Fugue_aug1.mid
(deflated 28%)
adding: kaggle/working/Bach_augmented/012006b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/09. Aria Qui Sedes_aug1.mid (deflated
28%)
adding: kaggle/working/Bach_augmented/066100b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/025900b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/09 Menuet_aug2.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Clavierubung Part 111,Duet No.2 in F
Major_aug0.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/014004b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/006206bv_aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Canon Fugue n3_aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv0565 Toccata and Fugue In Dm
A_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/042600b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/036900b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral suite n3
Gigue_aug2.mid (deflated 21%)
adding: kaggle/working/Bach_augmented/024425b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/065000b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/017807b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/037300bv_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/6.Herzliebster Jesu Chorus_aug1.mid
(deflated 25%)
adding: kaggle/working/Bach_augmented/016406b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/015408b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/018405b__aug2.mid (deflated 29%)
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adding: kaggle/working/Bach_augmented/003907b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/036200b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv783 Invention n12 _aug2.mid (deflated
30%)
adding: kaggle/working/Bach_augmented/Variation 28_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/076905b__aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/007011ch_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/070100b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv0531 Prelude and Fugue_aug1.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1051 Brandenburg Concert n6
1mov_aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv003.6v_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/019406b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0967 Sonata_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/006404b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/064700b__aug1.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Simple Fugue Regular Subject n1_aug2.mid
(deflated 31%)
adding: kaggle/working/Bach_augmented/02 Menuet_aug2.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Menuet_aug1.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/Bwv1053 Harpsichord Concerto n2
2mov_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/15 Musette_aug0.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/Wtcii10a_aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 06mov _aug0.mid
(deflated 23%)
adding: kaggle/working/Bach_augmented/066700b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/010707b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/028300b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/006404b__aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Simple Fugue Inverted Subject
n1_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Menuet_aug0.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
1mov_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1058 Harpsichord Concerto n7
3mov_aug2.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/066200b__aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Bwv0789 Sinfonia n3_aug2.mid (deflated
30%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
3mov_aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/bsgjg_l_aug2.mid (deflated 21%)
adding: kaggle/working/Bach_augmented/Bwv0561 Fantasie and Fuga_aug0.mid
(deflated 26%)
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adding: kaggle/working/Bach_augmented/034600b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1055 Harpsichord Concerto n4
2mov_aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/010207b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/04 Menuet_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv1043 Two Violins Concerto n3
3mov_aug0.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Courante_aug0.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/036400b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/006106b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/024526b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0795 Sinfonia n9_aug0.mid (deflated
30%)
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  adding: kaggle/working/Bach_augmented/024812b2_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/009709ch_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/039400b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 19_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/065400b__aug2.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Badineri_aug2.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/065900b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/040600b__aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 6mov_aug2.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/Wtcii18b_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1046 Brandenburg Concert n1
2mov_aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
4mov_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/006502b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0528 Sonate en trio n4_aug2.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/027800b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1054 Harpsichord Concerto n3
2mov_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/7.Ko"nnen Tra"nen meiner Wangen nichts
erlangen Alto Aria_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/033900b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Polonais_aug2.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/011106b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.13_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/012506b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/041800b__aug2.mid (deflated 27%)
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adding: kaggle/working/Bach_augmented/066700b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/024817b2_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0806 English Suite n1 08mov _aug1.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/invent15_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0787 Sinfonia n1_aug1.mid (deflated
29%)
adding: kaggle/working/Bach_augmented/Wtcii04b_aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/036100b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/004008b__aug0.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/040200b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv0733 Fuga Sopra Magnificat_aug1.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/invent2_aug0.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Passpied_aug1.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Wtcii11a_aug2.mid (deflated 34%)
adding: kaggle/working/Bach_augmented/Bwv0568 Prelude_aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Bwv1058 Harpsichord Concerto n7
1mov_aug2.mid (deflated 24%)
adding: kaggle/working/Bach_augmented/039800b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/039900b__aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/006906b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1049 Brandenburg Concert n4
3mov_aug2.mid (deflated 21%)
adding: kaggle/working/Bach_augmented/Bwv0542 Fantasia and Fugue_aug0.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
5mov_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/041500b__aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Jesu Joy of Man Desiring_aug2.mid
(deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv0792 Sinfonia n6_aug1.mid (deflated
28%)
adding: kaggle/working/Bach_augmented/Bwv0566 Prelude and Fugue_aug0.mid
(deflated 27%)
adding: kaggle/working/Bach_augmented/024432b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1042 Violin Concerto n2 3mov_aug1.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/Bwv1062 Two Harpsichords Concerto
n3_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/004106b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv778 Invention n07_aug2.mid (deflated
29%)
adding: kaggle/working/Bach_augmented/013705b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/038800b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Variation 20_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/010107bv_aug2.mid (deflated 29%)
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  adding: kaggle/working/Bach_augmented/Variation 25_aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/038900b__aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/029900b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/014706b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Wtcii20b_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv0572 Fantasia_aug0.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/024859b6_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/019705b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/024440b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1047 Brandenburg Concert n2
1mov_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/024462b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/013606b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/026700b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0593 Vivaldi Concerto Arrangement
RV522_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/029000b__aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/043800b__aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/008606b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/042300b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv006.3_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/003907b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/026900b__aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/043200b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv013.6_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv784 Invention n13 _aug1.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/027500b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Prelude and Fugue in C Sharp BWV
872_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/017705b__aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Bwv0535 Prelude and Fugue_aug0.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/004803b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/042600b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/042500b__aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Sarabande_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/009801b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1043 Two Violins Concerto n3
2mov_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/04. Chor Gloria In Exelcis _aug2.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/11 Marche_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/065000b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/026700b__aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0934 Little Prelude n2_aug2.mid
(deflated 26%)
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adding: kaggle/working/Bach_augmented/016106b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/027200b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/012705b_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv036(2).8_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/Wtcii03b_aug2.mid (deflated 25%)
adding: kaggle/working/Bach_augmented/11. Chor Cum Sancto _aug2.mid (deflated
27%)
adding: kaggle/working/Bach_augmented/003907bv_aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/069400b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv016.6_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/037700b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/009906b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/036000b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv010.7_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/027800b__aug1.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/034200b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/024446b__aug2.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/065800b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral suite n4
Bourree_aug1.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/Bwv013.6_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/041700b__aug1.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/012406b__aug1.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/09 Menuet_aug1.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral suite n3
Overture_aug0.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/065200b__aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/027500b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 5mov_aug2.mid
(deflated 23%)
adding: kaggle/working/Bach_augmented/Bwv782 Invention n11_aug1.mid (deflated
27%)
adding: kaggle/working/Bach_augmented/invent8_aug1.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.12_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv0549 Prelude and Fugue_aug2.mid
(deflated 24%)
adding: kaggle/working/Bach_augmented/Variation 01_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/035800b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/024823b2_aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral Suite n1
5mov_aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/010406bv_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
4mov_aug0.mid (deflated 31%)
adding: kaggle/working/Bach_augmented/006206bv_aug0.mid (deflated 26%)
adding: kaggle/working/Bach_augmented/012905b__aug0.mid (deflated 36%)
adding: kaggle/working/Bach_augmented/bsgjg_b_aug0.mid (deflated 25%)
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adding: kaggle/working/Bach_augmented/Bwv785 Invention n14 _aug2.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/025600b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv1042 Violin Concerto n2 1mov_aug2.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.2_aug2.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/011606b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Variation 15_aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/022703b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/018405bv_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral suite n2
Bouree_aug1.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv029.8_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/024417b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Variation 30_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/027200b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/041400b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/010707b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/019707ba_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Triple Fugue n2_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.4_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/033800b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0793 Sinfonia n7_aug2.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/012306b__aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv1061 Two Harpsichords Concerto
n2_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/024805b1_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/024805b1_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Wtcii19b_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/013006b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/19. Sanctus _aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1046 Brandenburg Concert n1
1mov_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Simple Fugue Regular Subject n2_aug0.mid
(deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv020.11_aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Variation 26_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/024842b4_aug0.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/066800b__aug0.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/bsgjg_c_aug2.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv1057 Harpsichord Concerto n6
2mov_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/015505b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/024833b3_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/12 Polonaise_aug1.mid (deflated 26%)
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adding: kaggle/working/Bach_augmented/027800b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/004003b__aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Wtcii05b_aug0.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/007507b__aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/028700b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/008305b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/010602b__aug1.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 4mov_aug2.mid
(deflated 25%)
adding: kaggle/working/Bach_augmented/013705ch_aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv004.8v_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/16. Et Ressurexit_aug1.mid (deflated
26%)
adding: kaggle/working/Bach_augmented/Bwv0541 Prelude and Fugue_aug1.mid
(deflated 25%)
adding: kaggle/working/Bach_augmented/066000b__aug2.mid (deflated 33%)
adding: kaggle/working/Bach_augmented/030700b__aug2.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/Bwv0998 Prelude Fugue Allegro for Lute
3mov_aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1049 Brandenburg Concert n4
2mov_aug0.mid (deflated 22%)
adding: kaggle/working/Bach_augmented/Variation 15_aug0.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/028000b__aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/036800b__aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/007614b__aug2.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 3mov_aug2.mid
(deflated 30%)
adding: kaggle/working/Bach_augmented/022902b__aug1.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Variation 13_aug0.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/024425b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/006707b__aug0.mid (deflated 32%)
adding: kaggle/working/Bach_augmented/Bwv773 Invention n02_aug1.mid (deflated
26%)
adding: kaggle/working/Bach_augmented/Bwv0992 Capriccio_aug1.mid (deflated
25%)
adding: kaggle/working/Bach_augmented/Bwv1066 Orchestral suite n1
Forlane_aug1.mid (deflated 23%)
adding: kaggle/working/Bach_augmented/007408b__aug0.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/Bwv1058 Harpsichord Concerto n7
2mov_aug1.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/064900b__aug2.mid (deflated 30%)
adding: kaggle/working/Bach_augmented/Bwv0811 English Suite n6 2mov_aug2.mid
(deflated 23%)
adding: kaggle/working/Bach_augmented/041300b__aug2.mid (deflated 28%)
adding: kaggle/working/Bach_augmented/039000b__aug1.mid (deflated 34%)
adding: kaggle/working/Bach_augmented/Wtcii14b_aug0.mid (deflated 27%)
adding: kaggle/working/Bach_augmented/026700ba_aug2.mid (deflated 29%)
adding: kaggle/working/Bach_augmented/Bwv0568 Prelude_aug1.mid (deflated 26%)
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  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.6_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/019506b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/017807b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/024454b__aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv008.6_aug1.mid (deflated 32%)
  adding: kaggle/working/Bach_augmented/064900b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/7.Ko"nnen Tra"nen meiner Wangen nichts
erlangen Alto Aria_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/bsgjg_a_aug1.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/013006b__aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/037600b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv781 Invention n10_aug1.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/Bwv0793 Sinfonia n7_aug0.mid (deflated
30%)
  adding: kaggle/working/Bach_augmented/026800b__aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv1047 Brandenburg Concert n2
1mov_aug2.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral Suite n3
4mov_aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv028.6_aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv024.6s_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv0554 Short Prelude and Fugue n2
(Spurious)_aug1.mid (deflated 28%)
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  adding: kaggle/working/Bach_augmented/032100b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Variation 04_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/004606bs_aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii12b_aug1.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/024853b5_aug0.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Variation 18_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/040900b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/038000b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/017206vn_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Wtcii19b_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0997 Partita for Lute 2mov_aug0.mid
(deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
5mov_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/030500b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/018405bv_aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/026200b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0935 Little Prelude n3_aug0.mid
(deflated 23%)
  adding: kaggle/working/Bach_augmented/Prelude and Fugue in D_aug2.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/066500b__aug2.mid (deflated 28%)
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adding: kaggle/working/Bach_augmented/Bwv0933 Little Prelude n1_aug2.mid
(deflated 24%)
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(deflated 23%)
  adding: kaggle/working/Bach_augmented/042900b__aug1.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Bwv0788 Sinfonia n2_aug0.mid (deflated
27%)
  adding: kaggle/working/Bach_augmented/008707b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.14_aug2.mid (deflated 32%)
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  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.8_aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Variation 11_aug1.mid (deflated 29%)
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2mov_aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/024526b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/014500ba_aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/17 Polonaise_aug0.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/Bwv0560 Short Prelude and Fugue n8
(Spurious)_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Wtcii01a_aug0.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/06 Menuet_aug1.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
6mov_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1052 Harpsichord Concerto n1
1mov_aug2.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv1068 Orchestral suite n3
Gavotte_aug0.mid (deflated 21%)
  adding: kaggle/working/Bach_augmented/007514b__aug0.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/024440b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/037300bv_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/037500b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
3mov_aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/024842b4_aug1.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/Prelude and Fugue in D_aug0.mid
(deflated 24%)
  adding: kaggle/working/Bach_augmented/060600b__aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/043600b__aug1.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/016406b__aug2.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1043 Two Violins Concerto n3
3mov_aug1.mid (deflated 23%)
  adding: kaggle/working/Bach_augmented/Bwv773 Invention n02_aug0.mid (deflated
25%)
  adding: kaggle/working/Bach_augmented/Wtcii12b_aug0.mid (deflated 34%)
  adding: kaggle/working/Bach_augmented/016606b__aug2.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/025700b__aug0.mid (deflated 30%)
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  adding: kaggle/working/Bach_augmented/Bwv1062 Two Harpsichords Concerto
n3_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Simple Fugue Regular Subject n1_aug1.mid
(deflated 31%)
  adding: kaggle/working/Bach_augmented/Wtcii01a_aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/bsgjg_d_aug0.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/066800com_aug1.mid (deflated 35%)
  adding: kaggle/working/Bach_augmented/026900b__aug1.mid (deflated 32%)
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  adding: kaggle/working/Bach_augmented/012905b__aug1.mid (deflated 36%)
  adding: kaggle/working/Bach_augmented/004606b__aug1.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/Bwv0582 Passacaglia and Fugue_aug1.mid
(deflated 25%)
  adding: kaggle/working/Bach_augmented/004407b__aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv0544 Prelude and Fugue_aug2.mid
(deflated 27%)
  adding: kaggle/working/Bach_augmented/09. Aria Qui Sedes_aug2.mid (deflated
29%)
  adding: kaggle/working/Bach_augmented/066000b__aug0.mid (deflated 33%)
  adding: kaggle/working/Bach_augmented/Piano version of Bachs two part
inventions No.3_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/024817b2_aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/066100b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/076901b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/Bwv1067 Orchestral Suite n2
5mov_aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/012506b__aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/036200b__aug0.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/Bwv0526 Sonate en trio n2_aug1.mid
(deflated 26%)
  adding: kaggle/working/Bach_augmented/033200b__aug1.mid (deflated 24%)
  adding: kaggle/working/Bach_augmented/Bwv1043 Two Violins Concerto n3
2mov_aug0.mid (deflated 22%)
  adding: kaggle/working/Bach_augmented/039200b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv0906 Fantasia and Fugue_aug1.mid
(deflated 22%)
  adding: kaggle/working/Bach_augmented/070100b__aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv005.7_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/024528b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/Bwv1069 Orchestral Suite n4
2mov_aug1.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/007011b__aug2.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/Bwv1057 Harpsichord Concerto n6
3mov_aug0.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/066200b__aug2.mid (deflated 31%)
  adding: kaggle/working/Bach_augmented/064600b__aug1.mid (deflated 30%)
  adding: kaggle/working/Bach_augmented/033000b__aug2.mid (deflated 29%)
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adding: kaggle/working/Bach_augmented/Bwv772 Invention n01_aug2.mid (deflated
26%)
  adding: kaggle/working/Bach_augmented/016806b__aug1.mid (deflated 29%)
  adding: kaggle/working/Bach_augmented/042000b__aug0.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/bsgjg_h_aug1.mid (deflated 25%)
  adding: kaggle/working/Bach_augmented/Bwv1053 Harpsichord Concerto n2
2mov_aug0.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/006606b__aug2.mid (deflated 26%)
  adding: kaggle/working/Bach_augmented/Bwv012.7_aug0.mid (deflated 28%)
  adding: kaggle/working/Bach_augmented/Jesu Joy of Man Desiring_aug0.mid
(deflated 30%)
  adding: kaggle/working/Bach_augmented/Wtcii15b_aug1.mid (deflated 27%)
  adding: kaggle/working/Bach_augmented/1.Bass Aria_aug2.mid (deflated 28%)
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Aria_aug0.mid (deflated 25%)
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91

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[ ]: `!zip -r Beethoven_augmented.zip /kaggle/working/Beethoven_augmented`

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2mov_aug1.mid (deflated 24%)
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4mov_aug2.mid (deflated 23%)
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Piano_aug2.mid (deflated 21%)
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Tode''_aug1.mid (deflated 32%)
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No.2_aug2.mid (deflated 28%)
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4mov_aug2.mid (deflated 23%)
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''Choral''_aug0.mid (deflated 24%)
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Vorsehung''_aug2.mid (deflated 25%)
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Piano_aug1.mid (deflated 20%)
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(deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n14 op27
''Moonlight''_aug2.mid (deflated 26%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n17
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(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n23 op57 2mov
''Apassionata''_aug0.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Sonata Opus.81a -Les Adieux- E flat
No.2 & 3_aug0.mid (deflated 28%)
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''Waldstein''_aug0.mid (deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n08 op13 3mov
''Pathetique''_aug0.mid (deflated 23%)
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25%)
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24%)
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(deflated 24%)
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(deflated 25%)
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(deflated 26%)
  adding: kaggle/working/Beethoven_augmented/Sketch for Piano Allegro_aug2.mid
(deflated 23%)
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-Hammerklavier- Op.106, 2nd Mov Scherzo_aug0.mid (deflated 22%)
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31%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n10 2mov_aug0.mid
(deflated 22%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n21 1mov
''Waldstein''_aug2.mid (deflated 25%)
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Opus.33, No.5_aug0.mid (deflated 25%)
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(deflated 25%)
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1mov_aug2.mid (deflated 23%)
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39_aug0.mid (deflated 24%)
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Opus.33, No.2_aug2.mid (deflated 26%)
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(deflated 24%)
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(deflated 22%)
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3mov_aug1.mid (deflated 24%)
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Hunt''_aug0.mid (deflated 24%)
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Wort''_aug2.mid (deflated 28%)
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2mov_aug2.mid (deflated 26%)
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(deflated 25%)
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''Moonlight''_aug1.mid (deflated 24%)

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''Waldstein''_aug2.mid (deflated 23%)
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(deflated 32%)
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Hunt''_aug2.mid (deflated 24%)
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''Hammerklavier''_aug0.mid (deflated 24%)
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  adding: kaggle/working/Beethoven_augmented/Sonata Presto_aug0.mid (deflated
25%)
  adding: kaggle/working/Beethoven_augmented/WoO086 Scotish_aug2.mid (deflated
25%)
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op72_aug2.mid (deflated 23%)
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n1_aug2.mid (deflated 22%)
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Piano_aug2.mid (deflated 25%)
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Marches_aug1.mid (deflated 25%)
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3mov_aug2.mid (deflated 25%)
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(deflated 21%)
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(deflated 24%)
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(deflated 24%)
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25%)
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''Eroica''_aug2.mid (deflated 26%)
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mov_aug1.mid (deflated 27%)
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No.1_aug1.mid (deflated 27%)
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''Apassionata''_aug1.mid (deflated 25%)
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Fantasia_aug0.mid (deflated 25%)
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(deflated 22%)
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''Choral''_aug2.mid (deflated 28%)
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2-3movs_aug1.mid (deflated 26%)
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(deflated 24%)
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(deflated 24%)
  adding: kaggle/working/Beethoven_augmented/HessA21 Bagatella_aug0.mid
(deflated 22%)
  adding: kaggle/working/Beethoven_augmented/Lieder op46 ''Adelaide''_aug1.mid
(deflated 25%)
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''Pathetique''_aug1.mid (deflated 24%)
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(deflated 27%)
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  adding: kaggle/working/Beethoven_augmented/Lieder op46 ''Adelaide''_aug2.mid
(deflated 25%)
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''Moonlight''_aug0.mid (deflated 24%)
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(deflated 24%)
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''Choral''_aug2.mid (deflated 28%)
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Op.106_aug2.mid (deflated 21%)
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Giocoso_aug1.mid (deflated 22%)
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(deflated 22%)
  adding: kaggle/working/Beethoven_augmented/WoO010 Six Menuets for
Orchestra_aug2.mid (deflated 28%)
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''Pastorale''_aug2.mid (deflated 25%)
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''Moonlight''_aug2.mid (deflated 25%)
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(deflated 23%)
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(deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Piano Concerto No5,Mov.3_aug1.mid
(deflated 24%)
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Adieux''_aug1.mid (deflated 24%)
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2mov_aug2.mid (deflated 23%)
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(deflated 27%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n31 op110_aug0.mid
(deflated 25%)
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(deflated 23%)
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(deflated 31%)
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(deflated 24%)
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24%)
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adding: kaggle/working/Beethoven_augmented/Bagatella op33 n6_aug1.mid
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adding: kaggle/working/Beethoven_augmented/Opus045 Three Grandes
Marches_aug0.mid (deflated 25%)
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(deflated 22%)
adding: kaggle/working/Beethoven_augmented/Bagatella Fur Elise_aug2.mid
(deflated 22%)
adding: kaggle/working/Beethoven_augmented/Symphony n3 4mov
''Eroica''_aug1.mid (deflated 26%)
adding: kaggle/working/Beethoven_augmented/Piano Sonata n23 op57 2mov
''Apassionata''_aug2.mid (deflated 25%)
adding: kaggle/working/Beethoven_augmented/Sonata No.14 Op 27 Moonlight
Sonata_aug0.mid (deflated 25%)
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23%)
adding: kaggle/working/Beethoven_augmented/Sonata, Opus.111 C minor
No.1_aug2.mid (deflated 27%)
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24%)
adding: kaggle/working/Beethoven_augmented/Bagatella op33 n3_aug1.mid
(deflated 26%)
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adding: kaggle/working/Beethoven_augmented/Sketch for Piano Allegro_aug0.mid
(deflated 24%)
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1mov_aug1.mid (deflated 27%)
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26%)
adding: kaggle/working/Beethoven_augmented/Symphony op68 n6 3mov
''Pastorale''_aug2.mid (deflated 23%)
adding: kaggle/working/Beethoven_augmented/Piano Sonata n14 op27 1mov
''Moonlight''_aug0.mid (deflated 24%)
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(deflated 25%)
adding: kaggle/working/Beethoven_augmented/WoO055 Prelude_aug2.mid (deflated
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26%)
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Hunt''_aug1.mid (deflated 24%)
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(deflated 25%)
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No.2 & 3_aug2.mid (deflated 27%)
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3mov_aug2.mid (deflated 24%)
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(deflated 26%)
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''Eroica''_aug1.mid (deflated 28%)
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3mov_aug1.mid (deflated 23%)
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23%)
  adding: kaggle/working/Beethoven_augmented/Piano Concerto n2 op19
1mov_aug2.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Sonatina Fa maj woo_aug2.mid
(deflated 24%)
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Orchestra_aug0.mid (deflated 28%)
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24%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n27_aug1.mid (deflated
25%)
  adding: kaggle/working/Beethoven_augmented/WoO052 Bagatella_aug0.mid (deflated
27%)
  adding: kaggle/working/Beethoven_augmented/String Quartet n2 op18 n2
1mov_aug1.mid (deflated 23%)
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2mov_aug1.mid (deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Sonatina op33 4mov_aug0.mid
(deflated 22%)
  adding: kaggle/working/Beethoven_augmented/Hess057 Bagatella_aug2.mid
(deflated 26%)
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-Hammerklavier- Op.106, 2nd Mov Scherzo_aug1.mid (deflated 22%)
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  adding: kaggle/working/Beethoven_augmented/Rage over a lost penny_aug1.mid (deflated 31%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata No2 Assai vivace_aug1.mid (deflated 22%)
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  adding: kaggle/working/Beethoven_augmented/Piano Sonata n14 op27 2mov ''Moonlight''_aug1.mid (deflated 26%)
  adding: kaggle/working/Beethoven_augmented/Piano Concerto n1 op15 2mov_aug0.mid (deflated 26%)
  adding: kaggle/working/Beethoven_augmented/String Quartet n16 op135 1mov_aug1.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Symphony op125 n9 4mov ''Choral''_aug0.mid (deflated 28%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n21 3mov ''Waldstein''_aug0.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Fur Elise_aug0.mid (deflated 22%)
  adding: kaggle/working/Beethoven_augmented/Anh08Nb1 Gavotte 4 hands_aug0.mid (deflated 27%)
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  adding: kaggle/working/Beethoven_augmented/Piano Concerto n1 op15 1mov_aug2.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Lieder op48 n5 ''Gottes Macht Und Vorsehung''_aug0.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/String Quartet n16 op135 3mov_aug1.mid (deflated 22%)
  adding: kaggle/working/Beethoven_augmented/March No.3_aug1.mid (deflated 24%)
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Pianoforte_aug0.mid (deflated 32%)
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Marches_aug2.mid (deflated 24%)
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Orchestra_aug1.mid (deflated 28%)
  adding: kaggle/working/Beethoven_augmented/op126 Six Bagatellas_aug1.mid
(deflated 23%)
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n1_aug0.mid (deflated 22%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata No.27_aug1.mid
(deflated 29%)
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(deflated 23%)
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(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Symphony n4 4mov_aug1.mid (deflated
25%)
  adding: kaggle/working/Beethoven_augmented/WoO051 Sonatina 1-2 movs_aug2.mid
(deflated 25%)
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No.1_aug1.mid (deflated 27%)
  adding: kaggle/working/Beethoven_augmented/op119 Douze Bagatellas_aug0.mid
(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n08 op13 2mov
''Pathetique''_aug1.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Anh06 Rondo_aug0.mid (deflated 30%)
  adding: kaggle/working/Beethoven_augmented/Sketch for Piano Allegro
Giocoso_aug0.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Sonatina n1 op05_aug1.mid (deflated
25%)
  adding: kaggle/working/Beethoven_augmented/WoO052 Bagatella_aug1.mid (deflated
27%)
  adding: kaggle/working/Beethoven_augmented/Symphony n1 2mov_aug0.mid (deflated
22%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata No2 Assai
vivace_aug0.mid (deflated 22%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n22_aug0.mid (deflated
24%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n02_aug1.mid (deflated
24%)
  adding: kaggle/working/Beethoven_augmented/Piano Concerto No5,Mov.1_aug1.mid
(deflated 23%)
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1mov_aug2.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n11_aug2.mid (deflated
24%)

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2mov_aug1.mid (deflated 25%)
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''Emperor''_aug2.mid (deflated 26%)
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23%)
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23%)
  adding: kaggle/working/Beethoven_augmented/Overture ''Creatures Of Prometeus''
op43_aug0.mid (deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Lieder op82 n1 ''Dimmi Den Mio Che
Mi Ami''_aug0.mid (deflated 27%)
  adding: kaggle/working/Beethoven_augmented/Sonatina WoO050_aug1.mid (deflated
24%)
  adding: kaggle/working/Beethoven_augmented/String Quartet n1 op18
2mov_aug0.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Piano sonata n26 ''Les
Adieux''_aug2.mid (deflated 24%)
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4mov_aug0.mid (deflated 24%)
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''Pastoral''_aug1.mid (deflated 25%)
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3mov_aug0.mid (deflated 24%)
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39_aug2.mid (deflated 25%)
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4mov_aug0.mid (deflated 23%)
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''Pastorale''_aug2.mid (deflated 23%)
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''Eroica''_aug1.mid (deflated 25%)
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(deflated 23%)
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24%)
  adding: kaggle/working/Beethoven_augmented/WoO086 Scotish_aug0.mid (deflated
25%)
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26%)
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24%)
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Piano_aug0.mid (deflated 21%)
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(deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata No.27_aug2.mid
(deflated 29%)
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(deflated 27%)
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(deflated 26%)
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Marcia_aug2.mid (deflated 26%)
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(deflated 24%)
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26%)
  adding: kaggle/working/Beethoven_augmented/Bagatella Fur Elise_aug0.mid
(deflated 21%)
  adding: kaggle/working/Beethoven_augmented/Hess073 Bagatella_aug0.mid
(deflated 27%)
  adding: kaggle/working/Beethoven_augmented/Sonata in Bflat Major
Op.106_aug1.mid (deflated 21%)
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  adding: kaggle/working/Beethoven_augmented/Overture ''Inauguration of the
House'' op214_aug0.mid (deflated 25%)
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2mov_aug1.mid (deflated 27%)
  adding: kaggle/working/Beethoven_augmented/op051 3 Rondos_aug2.mid (deflated
24%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n14 op27 1mov
''Moonlight''_aug1.mid (deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Symphony n7 2mov_aug2.mid (deflated
26%)
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Opus.33, No.1_aug1.mid (deflated 25%)
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1mov_aug1.mid (deflated 23%)
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  adding: kaggle/working/Beethoven_augmented/Sonatina n1 op05_aug0.mid (deflated
25%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n24_aug1.mid (deflated
24%)
  adding: kaggle/working/Beethoven_augmented/Symphony op93 n8 1mov_aug0.mid
(deflated 24%)
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''Tempestat''_aug1.mid (deflated 24%)
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3mov_aug2.mid (deflated 23%)
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24%)
  adding: kaggle/working/Beethoven_augmented/Symphony n1 4mov_aug1.mid (deflated
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23%)
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(deflated 22%)
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(deflated 26%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n08 op13 1mov
''Pathetique''_aug0.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Sonata Opus.81a -Les Adieux- E flat
No.2 & 3_aug1.mid (deflated 27%)
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''Pastorale''_aug1.mid (deflated 24%)
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23%)
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23%)
  adding: kaggle/working/Beethoven_augmented/Rondo Opus.51, No.2_aug0.mid
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1mov_aug2.mid (deflated 23%)
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(deflated 23%)
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(deflated 26%)
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Adieux''_aug0.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Lieder op99 ''Der Mann Von
Wort''_aug1.mid (deflated 28%)
  adding: kaggle/working/Beethoven_augmented/WoO061 Mouvement Pour
Piano_aug0.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Symphony op68 n6 3mov
''Pastorale''_aug1.mid (deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n11_aug1.mid (deflated
24%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n03_aug1.mid (deflated
25%)
  adding: kaggle/working/Beethoven_augmented/Piano sonata n32 op111_aug0.mid
(deflated 23%)
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  adding: kaggle/working/Beethoven_augmented/String Quartet n2 op18 n2
4mov_aug1.mid (deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Sonatina In C_aug1.mid (deflated
23%)
  adding: kaggle/working/Beethoven_augmented/Overture ''Egmont''_aug2.mid
(deflated 26%)
  adding: kaggle/working/Beethoven_augmented/Lieder op48 n4 ''Die Ehre Gottes

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Aus Der Natur''_aug1.mid (deflated 28%)
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(deflated 34%)
  adding: kaggle/working/Beethoven_augmented/32 Variations on a theme_aug1.mid
(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/op077 Fantaisie_aug2.mid (deflated
23%)
  adding: kaggle/working/Beethoven_augmented/Piano Concerto n1 op15
2mov_aug2.mid (deflated 26%)
  adding: kaggle/working/Beethoven_augmented/String Quartet n1 op18
3mov_aug0.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/WoO055 Prelude_aug0.mid (deflated
26%)
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(deflated 24%)
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(deflated 24%)
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25%)
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''Apassionata''_aug0.mid (deflated 26%)
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(deflated 26%)
  adding: kaggle/working/Beethoven_augmented/Symphony n5 op67 1mov_aug0.mid
(deflated 26%)
  adding: kaggle/working/Beethoven_augmented/Sieben Bagatellen, in F Major,
Opus.33, No.3_aug1.mid (deflated 26%)
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2mov_aug0.mid (deflated 23%)
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  adding: kaggle/working/Beethoven_augmented/Symphony op93 n8 4mov_aug0.mid
(deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Lieder op48 n1 ''Bitten''_aug2.mid
(deflated 32%)
  adding: kaggle/working/Beethoven_augmented/Sieben Bagatellen, in A Major,
Opus.33, No.4_aug0.mid (deflated 26%)
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Opus.33, No.2_aug0.mid (deflated 26%)
  adding: kaggle/working/Beethoven_augmented/String Quartet n1 op18
1mov_aug0.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n31 op110_aug1.mid
(deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Hess061 Anglaise_aug2.mid (deflated
29%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n14 op27
''Moonlight''_aug0.mid (deflated 26%)
  adding: kaggle/working/Beethoven_augmented/Symphony n7 2mov_aug0.mid (deflated
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26%)
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3mov_aug1.mid (deflated 27%)
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2mov_aug1.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/op077 Fantaisie_aug0.mid (deflated
23%)
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op72_aug2.mid (deflated 23%)
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(deflated 25%)
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2mov_aug0.mid (deflated 23%)
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Opus.33, No.1_aug0.mid (deflated 24%)
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Opus.33, No.2_aug1.mid (deflated 26%)
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3mov_aug0.mid (deflated 26%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n07_aug1.mid (deflated
23%)
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Opus.33, No.4_aug1.mid (deflated 26%)
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(deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Bagatella op33 n5_aug1.mid
(deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Piano Concerto n2 op19
1mov_aug0.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Overture ''Leonore'' n2
op72_aug0.mid (deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Piano Romance No.50_aug0.mid
(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Symphony n5 op67 3-4mov_aug0.mid
(deflated 27%)
  adding: kaggle/working/Beethoven_augmented/String Quartet n16 op135
2mov_aug2.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Symphony n7 4mov_aug1.mid (deflated
26%)
  adding: kaggle/working/Beethoven_augmented/Symphony n4 3mov_aug2.mid (deflated
23%)
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''Pastorale''_aug1.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n14 op27
''Moonlight''_aug1.mid (deflated 27%)
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2mov_aug2.mid (deflated 25%)
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(deflated 22%)
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mov_aug0.mid (deflated 27%)
  adding: kaggle/working/Beethoven_augmented/op051 3 Rondos_aug1.mid (deflated
24%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n23 op57 1mov
''Apassionata''_aug2.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n15 2mov
''Pastoral''_aug1.mid (deflated 26%)
  adding: kaggle/working/Beethoven_augmented/op051 3 Rondos_aug0.mid (deflated
24%)
  adding: kaggle/working/Beethoven_augmented/Sonata, Opus.111 C minor
No.2_aug1.mid (deflated 28%)
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''Pathetique''_aug1.mid (deflated 23%)
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(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n13_aug2.mid (deflated
24%)
  adding: kaggle/working/Beethoven_augmented/WoO060 Mouvement Pour
Piano_aug0.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Symphony n1 3mov_aug0.mid (deflated
22%)
  adding: kaggle/working/Beethoven_augmented/op119 Douze Bagatellas_aug1.mid
(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Sketch for Piano Allegro
Giocoso_aug2.mid (deflated 22%)
  adding: kaggle/working/Beethoven_augmented/Hess059 Exercizio Per
Pianoforte_aug1.mid (deflated 32%)
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23%)
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(deflated 25%)
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''Choral''_aug0.mid (deflated 24%)
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25%)
  adding: kaggle/working/Beethoven_augmented/Overture ''Fidelio'' op72b_aug1.mid
(deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Sonata Opus.81a -Les Adieux- E flat
No.1_aug0.mid (deflated 27%)
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24%)
  adding: kaggle/working/Beethoven_augmented/Piano Concerto n4 op58
2mov_aug0.mid (deflated 27%)
  adding: kaggle/working/Beethoven_augmented/Symphony n2 op36 4mov_aug1.mid
(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Overture ''Leonore'' n3
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op72_aug1.mid (deflated 23%)
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3mov_aug2.mid (deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Symphony op68 n6 2mov
''Pastorale''_aug0.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Sketch for Piano Alla
Marcia_aug1.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Sieben Bagatellen, in C Major,
Opus.33, No.5_aug2.mid (deflated 25%)
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King_aug2.mid (deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Violin Concerto op61 1mov_aug2.mid
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25%)
  adding: kaggle/working/Beethoven_augmented/WoO056 Bagatella_aug2.mid (deflated
23%)
  adding: kaggle/working/Beethoven_augmented/Sonatina In C_aug0.mid (deflated
23%)
  adding: kaggle/working/Beethoven_augmented/Anh08Nb1 Gavotte 4 hands_aug1.mid
(deflated 27%)
  adding: kaggle/working/Beethoven_augmented/32 Variations on a theme_aug0.mid
(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Sketch for Piano Presto_aug1.mid
(deflated 34%)
  adding: kaggle/working/Beethoven_augmented/WoO052 Bagatella_aug2.mid (deflated
27%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n17
''Tempestat''_aug2.mid (deflated 24%)
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2mov_aug1.mid (deflated 26%)
  adding: kaggle/working/Beethoven_augmented/Piano sonata n32 op111_aug1.mid
(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n21 2mov
''Waldstein''_aug1.mid (deflated 22%)
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(deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Symphony n7 3mov_aug1.mid (deflated
30%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n28_aug0.mid (deflated
24%)
  adding: kaggle/working/Beethoven_augmented/Symphony n4 2mov_aug1.mid (deflated
23%)
  adding: kaggle/working/Beethoven_augmented/Sonatina Fa maj woo_aug1.mid
(deflated 24%)
  adding: kaggle/working/Beethoven_augmented/op126 Six Bagatellas_aug0.mid
(deflated 23%)
  adding: kaggle/working/Beethoven_augmented/Symphony op125 n9 2mov
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Piano_aug0.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata No.27_aug0.mid
(deflated 29%)
  adding: kaggle/working/Beethoven_augmented/Lieder op99 ''Der Mann Von
Wort''_aug0.mid (deflated 28%)
  adding: kaggle/working/Beethoven_augmented/WoO083 Six Escotish Dances for
Piano_aug2.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Sketch for Piano Alla
Marcia_aug0.mid (deflated 25%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n29 Op106
''Hammerklavier''_aug1.mid (deflated 24%)
  adding: kaggle/working/Beethoven_augmented/Sechs Variationen_aug2.mid
(deflated 27%)
  adding: kaggle/working/Beethoven_augmented/Piano Sonata n23 op57 1mov
''Apassionata''_aug1.mid (deflated 25%)
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Mi Ami''_aug2.mid (deflated 27%)
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1mov_aug0.mid (deflated 25%)
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Piano_aug1.mid (deflated 24%)
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King_aug1.mid (deflated 24%)
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op72_aug1.mid (deflated 23%)
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[ ]: `!zip -r Chopin_augmented.zip /kaggle/working/Chopin_augmented`

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''Impatience''_aug2.mid (deflated 26%)
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Piano accomplements, No.15_aug0.mid (deflated 24%)
  adding: kaggle/working/Chopin_augmented/Prelude n23 op28 ''A Pleasure
Boat''_aug0.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Nocturne op48 n2_aug1.mid (deflated
23%)
  adding: kaggle/working/Chopin_augmented/Prelude n08 op28
''Desparation''_aug1.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Prelude n17 op28 ''Scene On the Place
of Notre Dame_aug0.mid (deflated 31%)
  adding: kaggle/working/Chopin_augmented/Nocturne op72 n1_aug2.mid (deflated
22%)
  adding: kaggle/working/Chopin_augmented/Etude op25 n04_aug2.mid (deflated 27%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.12_aug2.mid (deflated 25%)
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24%)
  adding: kaggle/working/Chopin_augmented/Etude op25 n05_aug1.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Nocturne op48 n1_aug1.mid (deflated
27%)
  adding: kaggle/working/Chopin_augmented/Ecossaise No.2 in G_aug1.mid (deflated
21%)
  adding: kaggle/working/Chopin_augmented/Etude op25 n07_aug1.mid (deflated 26%)
  adding: kaggle/working/Chopin_augmented/Waltz op64 n1_aug0.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Nocturne op15 n2_aug0.mid (deflated
23%)
  adding: kaggle/working/Chopin_augmented/Prelude n10 op28 ''The Night
Moth''_aug0.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Grande Waltz op18_aug2.mid (deflated
26%)
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  adding: kaggle/working/Chopin_augmented/Piano Concerto n2 2mov_aug2.mid
(deflated 29%)
  adding: kaggle/working/Chopin_augmented/Polonaise Opus.40, No.1
(Military)_aug2.mid (deflated 31%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.13_aug2.mid (deflated 30%)
  adding: kaggle/working/Chopin_augmented/Waltz op70 n2_aug0.mid (deflated 24%)
  adding: kaggle/working/Chopin_augmented/Nocturne op48 n1_aug0.mid (deflated
27%)
  adding: kaggle/working/Chopin_augmented/Nocturne op37 n2_aug0.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/Nocturne op27 n1_aug1.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.5_aug1.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Etude op25 n09_aug2.mid (deflated 24%)
  adding: kaggle/working/Chopin_augmented/Etude op25 n12 ''The Ocean''_aug0.mid
(deflated 24%)
  adding: kaggle/working/Chopin_augmented/Prelude n06 op28 ''Tolling
Bells''_aug2.mid (deflated 27%)
  adding: kaggle/working/Chopin_augmented/Etude op25 n05_aug2.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.17_aug0.mid (deflated 27%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n05 ''Black Key''_aug2.mid
(deflated 25%)
  adding: kaggle/working/Chopin_augmented/Mazurka op68 n2 Drchew_aug2.mid
(deflated 21%)
  adding: kaggle/working/Chopin_augmented/Nocturne op72 n1_aug0.mid (deflated
22%)
  adding: kaggle/working/Chopin_augmented/Nocturne op62 n2_aug0.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/Sonata op35 n2 _aug0.mid (deflated
28%)
  adding: kaggle/working/Chopin_augmented/Nocturne op32 n1_aug1.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/Sonata op35 n4 _aug1.mid (deflated
26%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n11_aug1.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Prelude n21 op28 ''Sunday''_aug0.mid
(deflated 26%)
  adding: kaggle/working/Chopin_augmented/Prelude n19 op28_aug0.mid (deflated
25%)
  adding: kaggle/working/Chopin_augmented/Scherzo n1 op20_aug0.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/Nocturne No.15 in F Minor Opus.55
-1_aug1.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Barcarolle in F sharp Major_aug0.mid
(deflated 25%)
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adding: kaggle/working/Chopin_augmented/Etude op25 n11 ''Winter
Wind''_aug2.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Prelude n11 op28
''Dragonfly''_aug1.mid (deflated 24%)
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(deflated 26%)
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  adding: kaggle/working/Chopin_augmented/Nocturne op32 n2_aug0.mid (deflated
25%)
  adding: kaggle/working/Chopin_augmented/Ecossaise No.2 in G_aug0.mid (deflated
21%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n12
''Revolutionary''_aug0.mid (deflated 24%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n04 Drchew_aug1.mid
(deflated 21%)
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  adding: kaggle/working/Chopin_augmented/Etude op25 n10_aug2.mid (deflated 29%)
  adding: kaggle/working/Chopin_augmented/Ballad op32_aug1.mid (deflated 24%)
  adding: kaggle/working/Chopin_augmented/Etude op25 n03_aug0.mid (deflated 25%)
  adding: kaggle/working/Chopin_augmented/Nocturne op37 01_aug1.mid (deflated
24%)
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''Uncertainty''_aug0.mid (deflated 24%)
  adding: kaggle/working/Chopin_augmented/Prelude n13 op28 ''Loss''_aug0.mid
(deflated 26%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n10_aug2.mid (deflated 26%)
  adding: kaggle/working/Chopin_augmented/Nocturne op37 01_aug0.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n10_aug0.mid (deflated 26%)
  adding: kaggle/working/Chopin_augmented/Nocturne No.1, Opus.62_aug2.mid
(deflated 23%)
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Piano accomplements, No.4_aug1.mid (deflated 30%)
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Piano accomplements, No.6_aug2.mid (deflated 25%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.5_aug0.mid (deflated 22%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.16_aug2.mid (deflated 26%)
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Death''_aug1.mid (deflated 25%)
  adding: kaggle/working/Chopin_augmented/Nocturne op32 n1_aug2.mid (deflated
23%)
  adding: kaggle/working/Chopin_augmented/Nocturne op09 n3_aug2.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/Etude op. 10-5 Black keys_aug0.mid
(deflated 30%)
  adding: kaggle/working/Chopin_augmented/Finale to B Minor Paino
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Sonata_aug1.mid (deflated 20%)
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  adding: kaggle/working/Chopin_augmented/Nocturne op09 n3_aug0.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.3_aug1.mid (deflated 25%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.4_aug2.mid (deflated 30%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.19_aug2.mid (deflated 27%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n10_aug1.mid (deflated 26%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n04 Drchew_aug0.mid
(deflated 21%)
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23%)
  adding: kaggle/working/Chopin_augmented/Nocturne op33 n2_aug0.mid (deflated
28%)
  adding: kaggle/working/Chopin_augmented/Finale to B Minor Paino
Sonata_aug2.mid (deflated 20%)
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(deflated 26%)
  adding: kaggle/working/Chopin_augmented/Prelude n12 op28 ''Duel''_aug2.mid
(deflated 27%)
  adding: kaggle/working/Chopin_augmented/Prelude op.28-15 Raindrop_aug2.mid
(deflated 26%)
  adding: kaggle/working/Chopin_augmented/Mazurka op7 n2_aug0.mid (deflated 27%)
  adding: kaggle/working/Chopin_augmented/Polonaise Opus.40, No.1
(Military)_aug0.mid (deflated 31%)
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Piano accomplements, No.2_aug2.mid (deflated 27%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.18_aug2.mid (deflated 29%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n12
''Revolutionary''_aug2.mid (deflated 24%)
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minor_aug1.mid (deflated 31%)
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(deflated 24%)
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(deflated 24%)
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23%)
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27%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n06_aug2.mid (deflated 24%)
  adding: kaggle/working/Chopin_augmented/Mazurka op67 n3 Drchew_aug2.mid
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(deflated 21%)
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(deflated 21%)
  adding: kaggle/working/Chopin_augmented/Nocturne op55 n2_aug1.mid (deflated
23%)
  adding: kaggle/working/Chopin_augmented/Revolutionary_aug1.mid (deflated 26%)
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  adding: kaggle/working/Chopin_augmented/Etude No.7 in C Major Opus.10,
No.7_aug1.mid (deflated 28%)
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Storm''_aug0.mid (deflated 24%)
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Piano accomplements, No.11_aug2.mid (deflated 26%)
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Bells''_aug0.mid (deflated 26%)
  adding: kaggle/working/Chopin_augmented/Piano Concerto n2 3mov_aug2.mid
(deflated 22%)
  adding: kaggle/working/Chopin_augmented/Etude No.2 in A Minor_aug2.mid
(deflated 25%)
  adding: kaggle/working/Chopin_augmented/Piano Concerto n2 2mov_aug1.mid
(deflated 29%)
  adding: kaggle/working/Chopin_augmented/Tarantella_aug2.mid (deflated 24%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.2_aug1.mid (deflated 27%)
  adding: kaggle/working/Chopin_augmented/Etude Op 25, No.1_aug2.mid (deflated
22%)
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Brown21)_aug0.mid (deflated 32%)
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Piano accomplements, No.2_aug0.mid (deflated 28%)
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  adding: kaggle/working/Chopin_augmented/Prelude n20 op28 ''Funeral
March''_aug0.mid (deflated 27%)
  adding: kaggle/working/Chopin_augmented/Etude No.1_aug1.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Waltz in Ab (Op.posth.,
Brown21)_aug1.mid (deflated 32%)
  adding: kaggle/working/Chopin_augmented/Nocturne op15 n2_aug2.mid (deflated
22%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n01_aug2.mid (deflated 24%)
  adding: kaggle/working/Chopin_augmented/Etude op25 n06_aug1.mid (deflated 23%)
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''Suffocation''_aug1.mid (deflated 30%)
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(deflated 26%)
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24%)
  adding: kaggle/working/Chopin_augmented/Nocturne op37 01_aug2.mid (deflated
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24%)
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''Impatience''_aug1.mid (deflated 26%)
  adding: kaggle/working/Chopin_augmented/Mazurka op7 n1_aug2.mid (deflated 25%)
  adding: kaggle/working/Chopin_augmented/Mazurka op67 n3 Drchew_aug0.mid
(deflated 21%)
  adding: kaggle/working/Chopin_augmented/Nocturne op32 n1_aug0.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/Nocturne op33 n4_aug2.mid (deflated
27%)
  adding: kaggle/working/Chopin_augmented/Prelude n05 op28
''Uncertainty''_aug2.mid (deflated 24%)
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Piano accomplements, No.8_aug0.mid (deflated 27%)
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(deflated 25%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.7_aug0.mid (deflated 28%)
  adding: kaggle/working/Chopin_augmented/Nocturne op37 n2_aug2.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/Ballad op32_aug0.mid (deflated 24%)
  adding: kaggle/working/Chopin_augmented/Prelude n12 op28 ''Duel''_aug1.mid
(deflated 27%)
  adding: kaggle/working/Chopin_augmented/Nocturne op09 n3_aug1.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/Waltz op64 n1_aug2.mid (deflated 23%)
  adding: kaggle/working/Chopin_augmented/Trois Nouvelles Etudes
(Op.posth.)_aug2.mid (deflated 25%)
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23%)
  adding: kaggle/working/Chopin_augmented/Piano Concerto n1 op11 2mov_aug2.mid
(deflated 19%)
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(deflated 22%)
  adding: kaggle/working/Chopin_augmented/Trois Nouvelles Etudes
(Op.posth.)_aug0.mid (deflated 25%)
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24%)
  adding: kaggle/working/Chopin_augmented/Nocturne op33 n4_aug1.mid (deflated
27%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.4_aug0.mid (deflated 30%)
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(deflated 23%)
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Piano accomplements, No.9_aug0.mid (deflated 24%)
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Sonata_aug0.mid (deflated 20%)
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Piano accomplements, No.7_aug2.mid (deflated 29%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n09_aug1.mid (deflated 22%)
  adding: kaggle/working/Chopin_augmented/Prelude n11 op28
''Dragonfly''_aug0.mid (deflated 24%)
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  adding: kaggle/working/Chopin_augmented/Etude op25 n02_aug2.mid (deflated 24%)
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''Uncertainty''_aug1.mid (deflated 24%)
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25%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n03_aug0.mid (deflated 22%)
  adding: kaggle/working/Chopin_augmented/Nocturne No.18 in E Major
Op62_aug1.mid (deflated 24%)
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Flower''_aug1.mid (deflated 25%)
  adding: kaggle/working/Chopin_augmented/Etude op25 n11 ''Winter
Wind''_aug0.mid (deflated 23%)
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Piano accomplements, No.7_aug1.mid (deflated 28%)
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(deflated 19%)
  adding: kaggle/working/Chopin_augmented/Piano Concerto n1 op11 2mov_aug0.mid
(deflated 19%)
  adding: kaggle/working/Chopin_augmented/Scherzo n1 op20_aug2.mid (deflated
24%)
  adding: kaggle/working/Chopin_augmented/Mazurka op33 n2 Drchew_aug1.mid
(deflated 22%)
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Piano accomplements, No.19_aug0.mid (deflated 28%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n02_aug0.mid (deflated 25%)
  adding: kaggle/working/Chopin_augmented/Nocturne op33 n2_aug2.mid (deflated
28%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.8_aug2.mid (deflated 27%)
  adding: kaggle/working/Chopin_augmented/Etude op10 n09_aug2.mid (deflated 22%)
  adding: kaggle/working/Chopin_augmented/Mazurka op7 n1_aug0.mid (deflated 25%)
  adding: kaggle/working/Chopin_augmented/Mazurka op68 n2 Drchew_aug1.mid
(deflated 20%)
  adding: kaggle/working/Chopin_augmented/(2542)Prelude opus.28, No.16 in B flat
minor_aug2.mid (deflated 31%)
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28%)
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22%)
  adding: kaggle/working/Chopin_augmented/19 Polish Songs, for Solo Voice and
Piano accomplements, No.12_aug0.mid (deflated 25%)
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Storm''_aug1.mid (deflated 24%)
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(deflated 23%)
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(deflated 23%)
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(deflated 23%)
  adding: kaggle/working/Chopin_augmented/Piano Concerto n1 op11 3mov_aug1.mid
(deflated 19%)
  adding: kaggle/working/Chopin_augmented/Prelude n02 op28 ''Presentiment of
Death''_aug0.mid (deflated 25%)
  adding: kaggle/working/Chopin_augmented/Barcarolle in F sharp Major_aug1.mid
(deflated 25%)
  adding: kaggle/working/Chopin_augmented/Prelude n06 op28 ''Tolling
Bells''_aug1.mid (deflated 27%)
  adding: kaggle/working/Chopin_augmented/Prelude n15 op28 ''Raindrop''_aug0.mid
(deflated 28%)
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(deflated 23%)
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23%)
  adding: kaggle/working/Chopin_augmented/Nocturne op33 n2_aug1.mid (deflated
28%)
  adding: kaggle/working/Chopin_augmented/Nocturne No.18 in E Major
Op62_aug0.mid (deflated 24%)
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(Op.posth.)_aug1.mid (deflated 25%)
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  adding: kaggle/working/Chopin_augmented/Grande Waltz op18_aug1.mid (deflated
27%)
  adding: kaggle/working/Chopin_augmented/Prelude n07 op28 ''The Polish
Dance''_aug1.mid (deflated 23%)
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  adding: kaggle/working/Chopin_augmented/Etude op25 n07_aug0.mid (deflated 26%)
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23%)
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Natchmusik''_aug2.mid (deflated 23%)
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Kyrie_aug1.mid (deflated 30%)
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''Jupiter''_aug0.mid (deflated 27%)
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  adding: kaggle/working/Mozart_augmented/K317 Coronation Mass 6mov_aug1.mid
(deflated 21%)
  adding: kaggle/working/Mozart_augmented/Bartok Suite 2mov_aug0.mid (deflated
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''Jupiter''_aug2.mid (deflated 26%)
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Fugue_aug2.mid (deflated 25%)
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(deflated 24%)
```

adding: kaggle/working/Mozart_augmented/K281 Piano Sonata n03 1mov_aug0.mid
    (deflated 24%)
      adding: kaggle/working/Mozart_augmented/Early Pieces n19 Giga_aug2.mid
    (deflated 27%)
      adding: kaggle/working/Mozart_augmented/Symphony n40 K550 2mov_aug0.mid
    (deflated 25%)
      adding: kaggle/working/Mozart_augmented/Symphony n28 K200 4mov_aug2.mid
    (deflated 26%)
      adding: kaggle/working/Mozart_augmented/Symphony n28 K200 4mov_aug1.mid
    (deflated 26%)
      adding: kaggle/working/Mozart_augmented/K282 Piano Sonata n04 _aug2.mid
    (deflated 23%)
      adding: kaggle/working/Mozart_augmented/K622 Clarinet Concerto 2mov_aug2.mid
    (deflated 29%)
      adding: kaggle/working/Mozart_augmented/Sibelius Kuolema Vals op44_aug2.mid
    (deflated 23%)
      adding: kaggle/working/Mozart_augmented/K280 Piano sonata n02 1mov_aug1.mid
    (deflated 27%)
      adding: kaggle/working/Mozart_augmented/Early Pieces n13 Prelude_aug1.mid
    (deflated 24%)
      adding: kaggle/working/Mozart_augmented/Piano Concerto n20 K466 2mov_aug2.mid
    (deflated 23%)
      adding: kaggle/working/Mozart_augmented/Symphony n29 K201 4mov_aug0.mid
    (deflated 24%)
      adding: kaggle/working/Mozart_augmented/Symphony n25 K183 1mov_aug0.mid
    (deflated 23%)
      adding: kaggle/working/Mozart_augmented/Tchaikovsky Lake Of The Swans Act 1
    3mov_aug0.mid (deflated 23%)
      adding: kaggle/working/Mozart_augmented/Early Pieces n9 Allegretto_aug1.mid
    (deflated 24%)
      adding: kaggle/working/Mozart_augmented/Symphony n34 K338 1mov_aug0.mid
    (deflated 22%)
      adding: kaggle/working/Mozart_augmented/K330 Piano Sonata n10 2mov_aug1.mid
    (deflated 26%)
      adding: kaggle/working/Mozart_augmented/Piano Concerto n14 K449 3mov_aug1.mid
    (deflated 21%)
      adding: kaggle/working/Mozart_augmented/Diabelli Sonatina op151 n2
    2mov_aug1.mid (deflated 24%)
      adding: kaggle/working/Mozart_augmented/Symphony n4 K19 3mov_aug2.mid
    (deflated 24%)

[ ]: !ls -lrt

    total 73608
    drwxr-xr-x 140 root root   12288 Aug 9 06:20 extracted_files
    drwxr-xr-x   2 root root   143360 Aug 9 06:53 Bach_augmented
    drwxr-xr-x   2 root root   45056 Aug 9 06:57 Beethoven_augmented
    drwxr-xr-x   2 root root   65536 Aug 9 06:59 Mozart_augmented

```
drwxr-xr-x   2 root root    36864 Aug   9 07:00 Chopin_augmented
-rw-r--r--   1 root root 23358045 Aug   9 07:17 Bach_augmented.zip
-rw-r--r--   1 root root 23072842 Aug   9 07:17 Beethoven_augmented.zip
-rw-r--r--   1 root root  4650875 Aug   9 07:17 Chopin_augmented.zip
-rw-r--r--   1 root root 23980790 Aug   9 07:17 Mozart_augmented.zip
```

```python
[ ]: # Download the zipped files now
     FileLink(r'Bach_augmented.zip')
```

[ ]: /kaggle/working/Bach_augmented.zip

```python
[ ]: FileLink(r'Beethoven_augmented.zip')
```

[ ]: /kaggle/working/Beethoven_augmented.zip

```python
[ ]: FileLink(r'Chopin_augmented.zip')
```

[ ]: /kaggle/working/Chopin_augmented.zip

```python
[ ]: FileLink(r'Mozart_augmented.zip')
```

[ ]: /kaggle/working/Mozart_augmented.zip

4.2   Plot visualizations of MIDI File Statistics

```python
[ ]: # Ensure Seaborn style
     sns.set(style="whitegrid")

     # Function to extract MIDI stats
     def extract_midi_stats(midi_files_by_composer):
         stats = []
         for composer, file_list in midi_files_by_composer.items():
             for file_path in file_list:
                 try:
                     pm = pretty_midi.PrettyMIDI(file_path)
                     duration = pm.get_end_time()
                     note_count = sum(len(inst.notes) for inst in pm.instruments)
                     pitch_values = [note.pitch for inst in pm.instruments for note␣
      ↪in inst.notes]
                     tempo_estimates = pm.get_tempo_changes()[1] if len(pm.
      ↪get_tempo_changes()[1]) > 0 else [0]
                     instruments_used = [inst.program for inst in pm.instruments if␣
      ↪not inst.is_drum]

                     stats.append({
                         "composer": composer,
                         "file": os.path.basename(file_path),
```

```
                        "duration_sec": duration,
                        "note_count": note_count,
                        "pitch_values": pitch_values,
                        "avg_pitch": np.mean(pitch_values) if pitch_values else 0,
                        "avg_tempo": np.mean(tempo_estimates),
                        "instrument_programs": instruments_used
                    })
            except Exception as e:
                print(f"[WARN] Could not process {file_path}: {e}")
    return pd.DataFrame(stats)
```

```
[ ]:  # Extract stats
      midi_stats_df = extract_midi_stats(midi_files_by_composer)
```

[WARN] Could not process /kaggle/working/extracted_files/Beethoven/Anhang
14-3.mid: Could not decode key with 3 flats and mode 255
[WARN] Could not process /kaggle/working/extracted_files/Mozart/Piano
Sonatas/Nueva carpeta/K281 Piano Sonata n03 3mov.mid: Could not decode key with
2 flats and mode 2

```
[ ]:  # Class Distribution with counts on bars
      plt.figure(figsize=(6,6))
      ax = sns.countplot(x="composer", data=midi_stats_df, palette="Set2")
      plt.title("Class Distribution (MIDI Files per Composer)")
      plt.ylabel("Number of Files")

      # Add count labels
      for p in ax.patches:
          height = p.get_height()
          ax.annotate(f'{height}',
                      (p.get_x() + p.get_width() / 2., height),
                      ha='center', va='bottom',
                      fontsize=10, color='black',
                      xytext=(0, 3), textcoords='offset points')

      plt.show()
```

Class Distribution (MIDI Files per Composer)
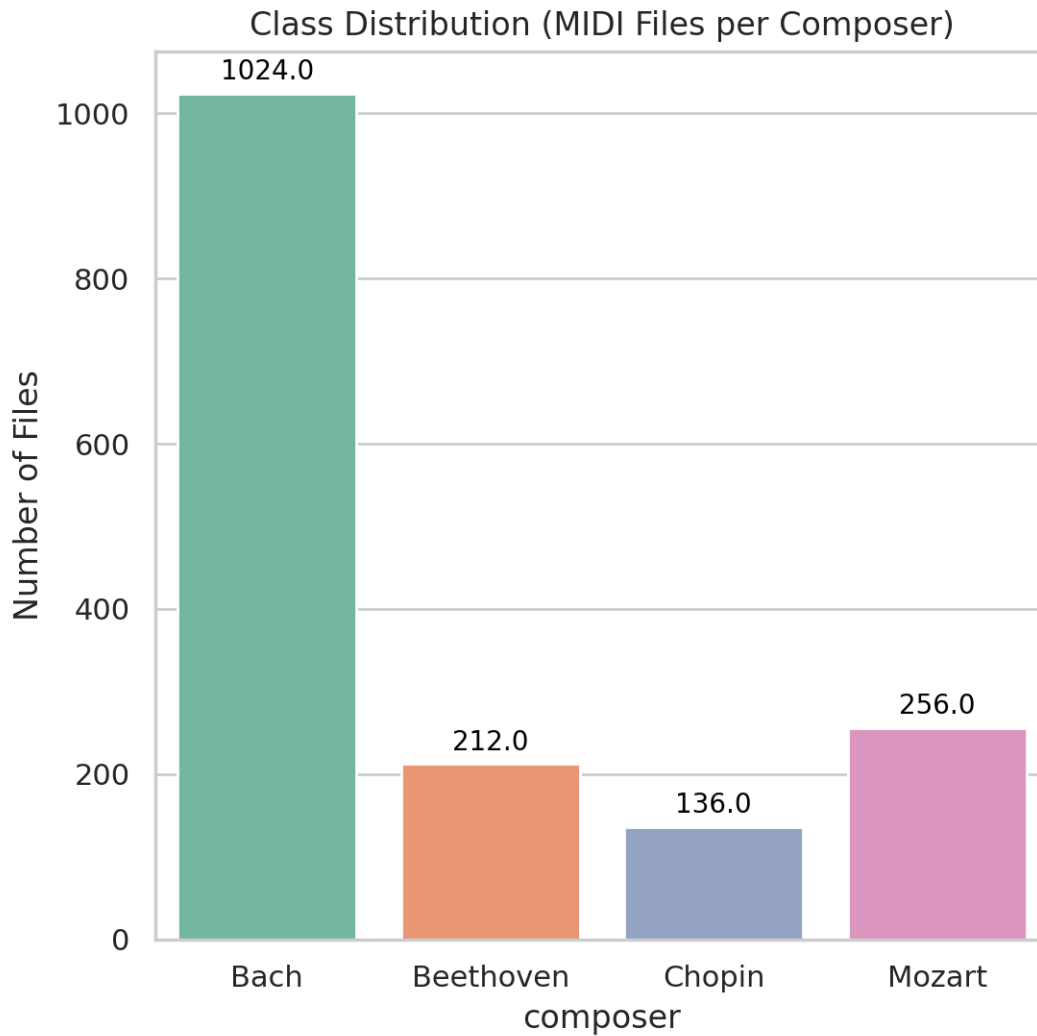

```python
# Duration Distribution
plt.figure(figsize=(8,4))
sns.boxplot(x="composer", y="duration_sec", data=midi_stats_df, palette="Set2")
plt.title("MIDI Duration Distribution by Composer")
plt.ylabel("Duration (seconds)")
plt.show()

plt.figure(figsize=(8,4))
sns.histplot(data=midi_stats_df, x="duration_sec", hue="composer", kde=True,
    ↪bins=50, palette="Set2")
plt.title("MIDI Duration Histogram")
plt.xlabel("Duration (seconds)")
plt.show()
```

MIDI Duration Distribution by Composer

MIDI Duration Histogram
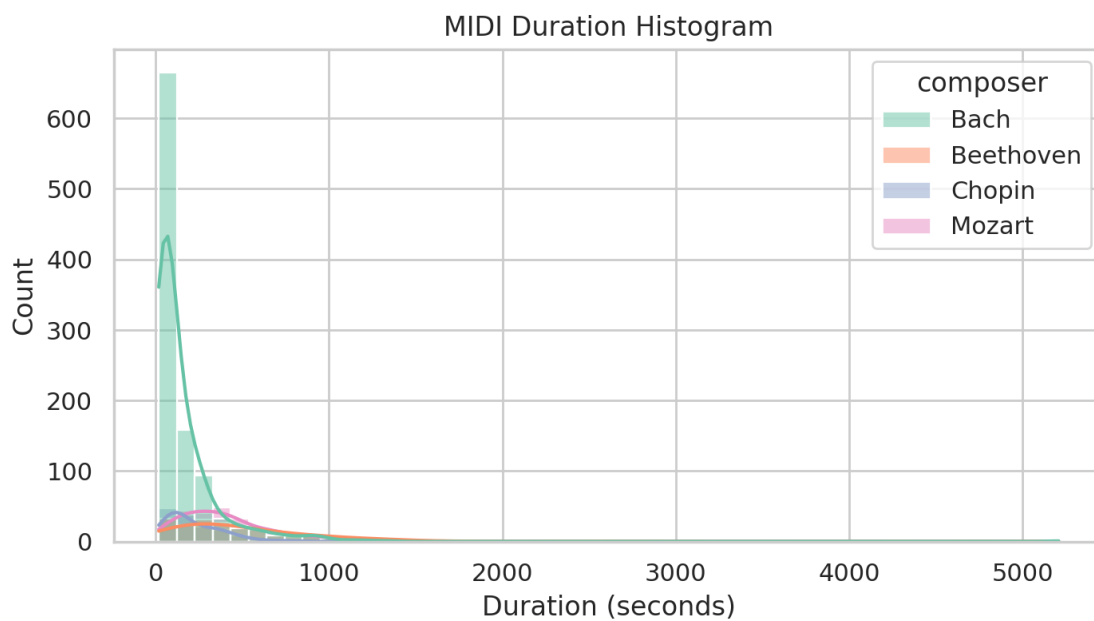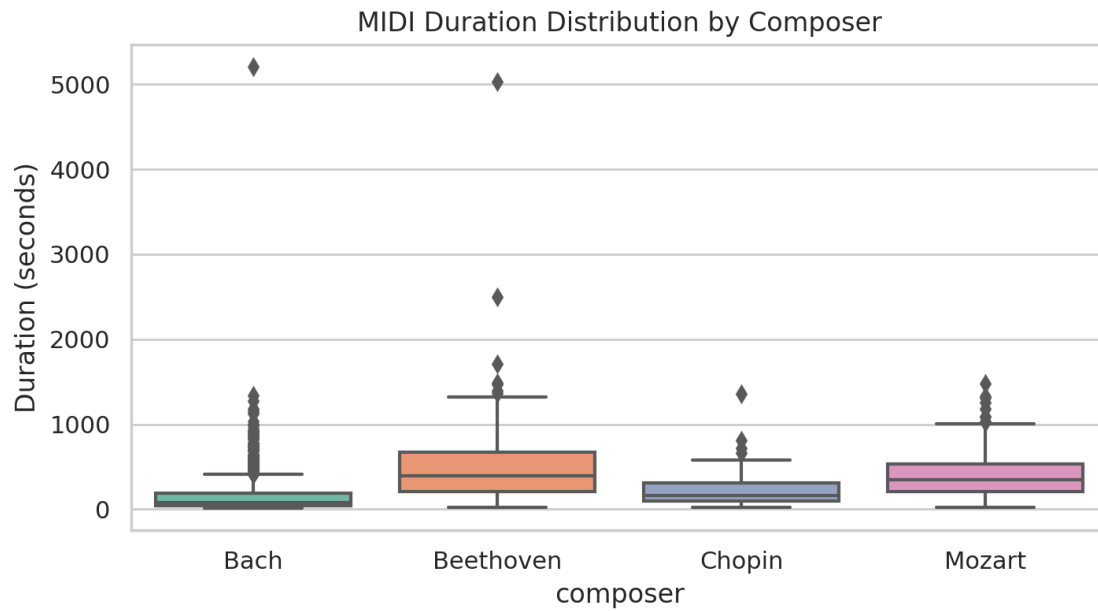
```
# Note Count Distribution
plt.figure(figsize=(8,4))
sns.violinplot(x="composer", y="note_count", data=midi_stats_df,␣
 ↪palette="Set2", inner="quart")
plt.title("Note Count Distribution by Composer")
plt.show()
```

Note Count Distribution by Composer
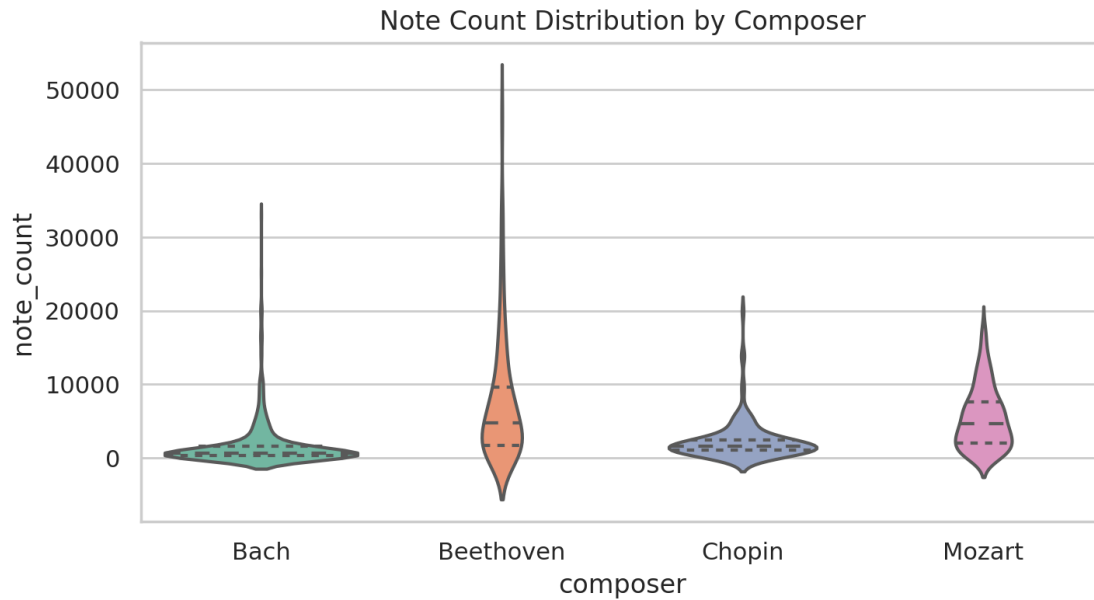

```python
# Pitch Distribution
plt.figure(figsize=(8,4))
for composer in midi_stats_df["composer"].unique():
    all_pitches = [p for pitches in midi_stats_df[midi_stats_df["composer"] ==␣
 ↪composer]["pitch_values"] for p in pitches]
    sns.kdeplot(all_pitches, label=composer, fill=True)
plt.title("Pitch Distribution by Composer")
plt.xlabel("MIDI Pitch (0-127)")
plt.ylabel("Density")
plt.legend()
plt.show()
```

Pitch Distribution by Composer
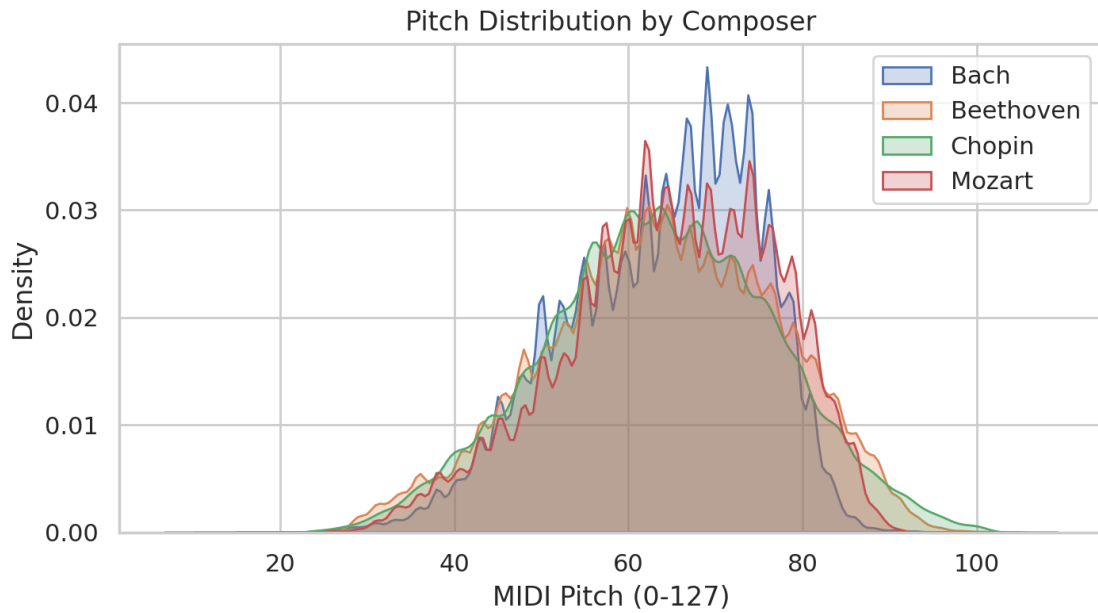
```
# Tempo Distribution
plt.figure(figsize=(8,4))
sns.kdeplot(data=midi_stats_df, x="avg_tempo", hue="composer", fill=True,
 ↪palette="Set2")
plt.title("Tempo Distribution by Composer")
plt.xlabel("Tempo (BPM)")
plt.show()
```


Tempo Distribution by Composer
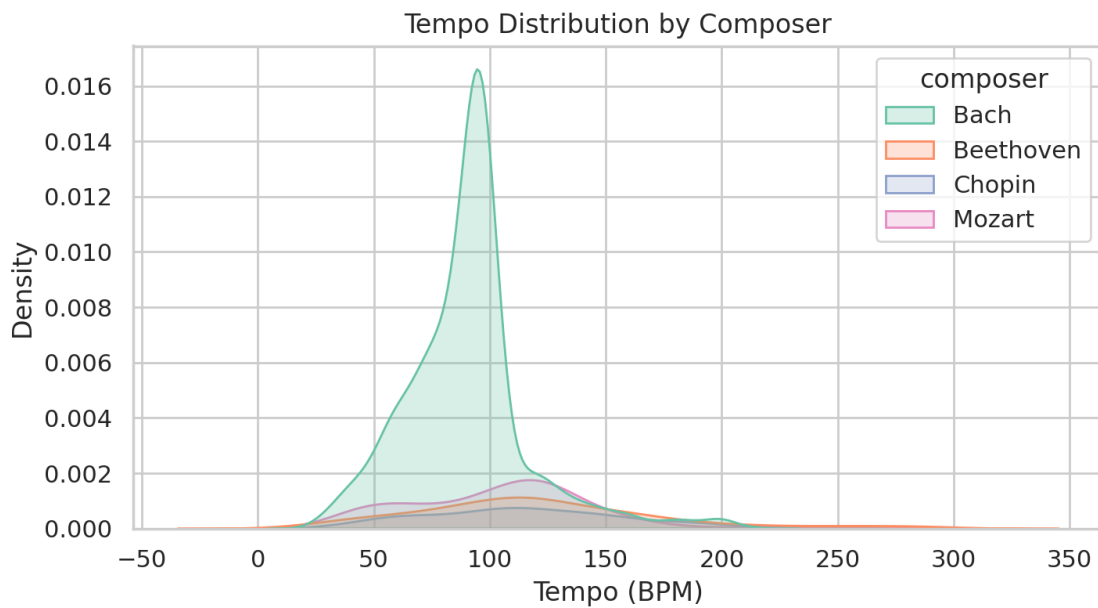
```python
# Instrument Usage
instrument_counts = []
for _, row in midi_stats_df.iterrows():
    for prog in row["instrument_programs"]:
        instrument_counts.append({"composer": row["composer"], "program": prog})

instrument_df = pd.DataFrame(instrument_counts)
instrument_summary = instrument_df.groupby(["composer", "program"]).size().
    ↪reset_index(name="count")

plt.figure(figsize=(25,6))
sns.barplot(x="program", y="count", hue="composer", data=instrument_summary,
    ↪palette="Set2")
plt.title("Instrument Program Usage by Composer")
plt.xlabel("MIDI Program Number (0-127)")
plt.ylabel("Count")
plt.legend(title="Composer")
plt.show()
```
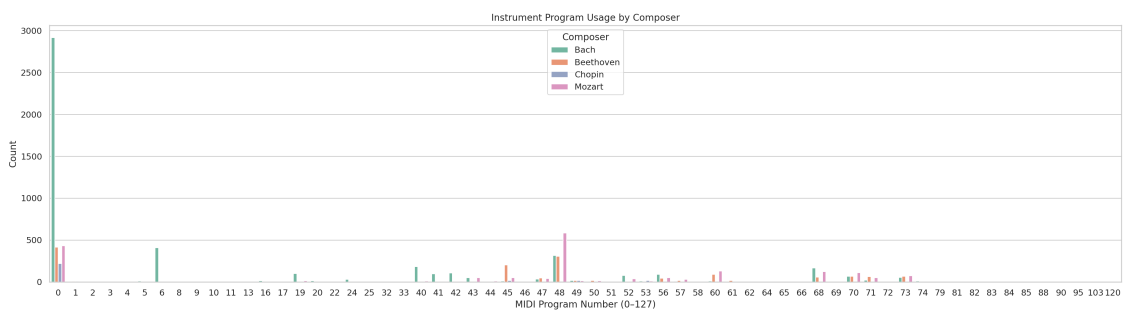

4.2.1 Sample Piano Roll (timeline of notes)

```python
def plot_piano_roll(midi_path):
    pm = pretty_midi.PrettyMIDI(midi_path)
    roll = pm.get_piano_roll(fs=100)  # fs = frames per second

    plt.figure(figsize=(12, 6))
    plt.imshow(roll, aspect='auto', origin='lower',
               cmap='inferno', interpolation='nearest')
    plt.xlabel('Time (frames)')
    plt.ylabel('MIDI Pitch')
    plt.title(f"Piano Roll - {os.path.basename(midi_path)}")
    plt.colorbar(label='Velocity')
    plt.show()
```

```
plot_piano_roll(midi_files_by_composer["Bach"][0])
```


Piano Roll - Bwv0563 Fantasie con imitation.mid
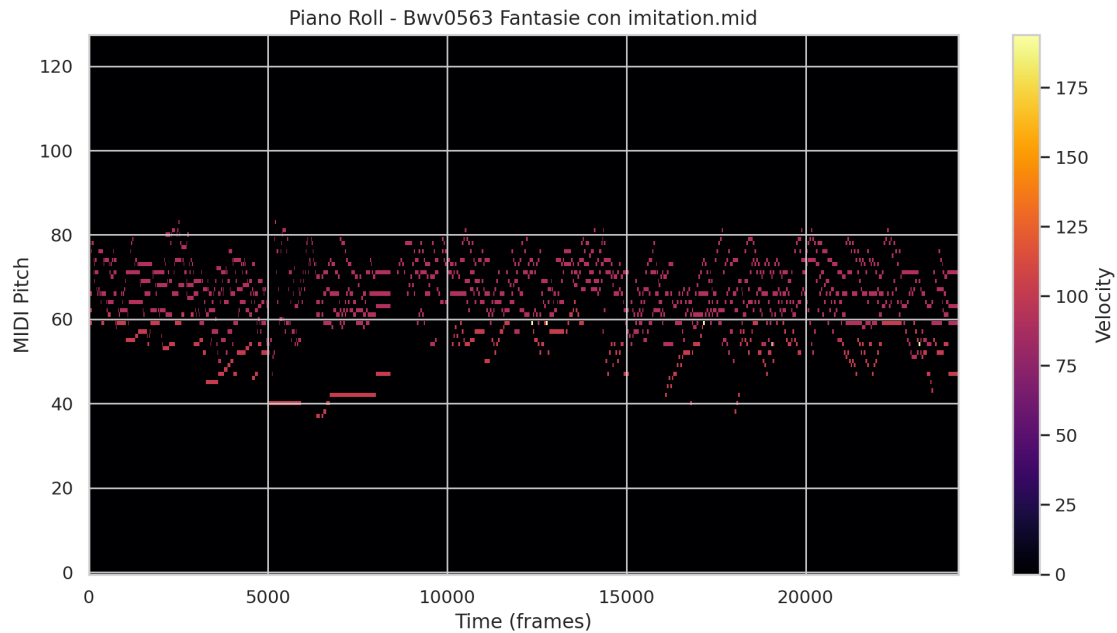
4.2.2 Sample MIDI Event Listing — textual representation

```
[ ]: def print_midi_notes(midi_path):
         pm = pretty_midi.PrettyMIDI(midi_path)
         for instrument in pm.instruments:
             print(f"Instrument: {pretty_midi.program_to_instrument_name(instrument.
     ↪program)}")
             for note in instrument.notes:
                 print(f"Pitch: {note.pitch}, Start: {note.start:.2f}, End: {note.
     ↪end:.2f}, Velocity: {note.velocity}")

     # Example
     print_midi_notes(midi_files_by_composer["Bach"][0])
```

```
Instrument: Church Organ
Pitch: 78, Start: 0.43, End: 0.64, Velocity: 92
Pitch: 76, Start: 0.64, End: 0.86, Velocity: 92
Pitch: 66, Start: 0.00, End: 0.86, Velocity: 92
Pitch: 78, Start: 0.86, End: 1.29, Velocity: 92
Pitch: 74, Start: 1.29, End: 1.50, Velocity: 92
Pitch: 73, Start: 1.50, End: 1.71, Velocity: 92
Pitch: 74, Start: 1.71, End: 2.14, Velocity: 92
Pitch: 71, Start: 2.14, End: 2.57, Velocity: 92
Pitch: 76, Start: 2.57, End: 3.86, Velocity: 92
```

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```
Pitch: 74, Start: 3.86, End: 4.07, Velocity: 92
Pitch: 73, Start: 4.07, End: 4.29, Velocity: 92
Pitch: 74, Start: 4.29, End: 5.57, Velocity: 92
Pitch: 73, Start: 5.57, End: 5.79, Velocity: 92
Pitch: 71, Start: 5.79, End: 6.00, Velocity: 92
Pitch: 73, Start: 6.00, End: 6.43, Velocity: 92
Pitch: 74, Start: 6.43, End: 6.64, Velocity: 92
Pitch: 76, Start: 6.64, End: 6.86, Velocity: 92
Pitch: 70, Start: 6.00, End: 6.86, Velocity: 92
Pitch: 74, Start: 6.86, End: 7.71, Velocity: 92
Pitch: 71, Start: 6.86, End: 7.71, Velocity: 92
Pitch: 66, Start: 9.00, End: 9.21, Velocity: 92
Pitch: 64, Start: 9.21, End: 9.43, Velocity: 92
Pitch: 66, Start: 9.43, End: 9.86, Velocity: 92
Pitch: 67, Start: 9.86, End: 10.07, Velocity: 92
Pitch: 69, Start: 10.07, End: 10.29, Velocity: 92
Pitch: 76, Start: 11.57, End: 11.79, Velocity: 92
Pitch: 78, Start: 11.79, End: 12.00, Velocity: 92
Pitch: 79, Start: 12.00, End: 12.43, Velocity: 92
Pitch: 71, Start: 10.29, End: 12.43, Velocity: 92
Pitch: 73, Start: 12.64, End: 12.86, Velocity: 92
Pitch: 74, Start: 12.86, End: 13.29, Velocity: 92
Pitch: 73, Start: 13.29, End: 13.50, Velocity: 92
Pitch: 71, Start: 12.43, End: 13.50, Velocity: 92
Pitch: 71, Start: 13.50, End: 14.14, Velocity: 92
Pitch: 69, Start: 14.14, End: 14.36, Velocity: 92
Pitch: 68, Start: 14.36, End: 14.57, Velocity: 92
Pitch: 69, Start: 14.57, End: 17.14, Velocity: 92
Pitch: 73, Start: 13.71, End: 17.57, Velocity: 92
Pitch: 71, Start: 17.57, End: 17.79, Velocity: 92
Pitch: 70, Start: 17.79, End: 18.00, Velocity: 92
Pitch: 68, Start: 18.43, End: 18.64, Velocity: 92
Pitch: 66, Start: 18.64, End: 18.86, Velocity: 92
Pitch: 71, Start: 18.00, End: 21.00, Velocity: 92
Pitch: 74, Start: 21.00, End: 21.21, Velocity: 92
Pitch: 73, Start: 21.21, End: 21.43, Velocity: 92
Pitch: 68, Start: 18.86, End: 21.86, Velocity: 92
Pitch: 69, Start: 21.86, End: 22.07, Velocity: 92
Pitch: 71, Start: 22.07, End: 22.29, Velocity: 92
Pitch: 80, Start: 21.43, End: 22.71, Velocity: 92
Pitch: 78, Start: 22.71, End: 22.93, Velocity: 92
Pitch: 80, Start: 22.93, End: 23.14, Velocity: 92
Pitch: 69, Start: 22.29, End: 23.14, Velocity: 92
Pitch: 71, Start: 23.57, End: 23.79, Velocity: 92
Pitch: 73, Start: 23.79, End: 24.00, Velocity: 92
Pitch: 81, Start: 23.14, End: 24.00, Velocity: 92
Pitch: 80, Start: 24.43, End: 24.64, Velocity: 92
Pitch: 81, Start: 24.64, End: 24.86, Velocity: 92
```

```
Pitch: 83, Start: 24.86, End: 25.29, Velocity: 92
Pitch: 80, Start: 25.29, End: 25.50, Velocity: 92
Pitch: 78, Start: 25.50, End: 25.71, Velocity: 92
Pitch: 74, Start: 24.00, End: 25.71, Velocity: 92
Pitch: 74, Start: 26.14, End: 26.36, Velocity: 92
Pitch: 73, Start: 26.36, End: 26.57, Velocity: 92
Pitch: 71, Start: 26.57, End: 27.21, Velocity: 92
Pitch: 77, Start: 25.71, End: 27.21, Velocity: 92
Pitch: 78, Start: 27.21, End: 27.43, Velocity: 92
Pitch: 69, Start: 27.21, End: 27.43, Velocity: 92
Pitch: 80, Start: 27.43, End: 27.86, Velocity: 92
Pitch: 73, Start: 27.86, End: 28.07, Velocity: 92
Pitch: 71, Start: 28.07, End: 28.29, Velocity: 92
Pitch: 74, Start: 28.29, End: 28.71, Velocity: 92
Pitch: 73, Start: 28.71, End: 28.93, Velocity: 92
Pitch: 71, Start: 28.93, End: 29.14, Velocity: 92
Pitch: 68, Start: 27.43, End: 29.14, Velocity: 92
Pitch: 62, Start: 29.57, End: 29.79, Velocity: 92
Pitch: 61, Start: 29.79, End: 30.00, Velocity: 92
Pitch: 66, Start: 30.00, End: 30.43, Velocity: 92
Pitch: 62, Start: 30.43, End: 30.64, Velocity: 92
Pitch: 61, Start: 30.64, End: 30.86, Velocity: 92
Pitch: 69, Start: 29.14, End: 31.29, Velocity: 92
Pitch: 71, Start: 31.29, End: 31.50, Velocity: 92
Pitch: 69, Start: 31.50, End: 31.71, Velocity: 92
Pitch: 59, Start: 30.86, End: 32.14, Velocity: 92
Pitch: 64, Start: 32.14, End: 32.36, Velocity: 92
Pitch: 62, Start: 32.36, End: 32.57, Velocity: 92
Pitch: 67, Start: 31.71, End: 33.00, Velocity: 92
Pitch: 69, Start: 33.00, End: 33.21, Velocity: 92
Pitch: 67, Start: 33.21, End: 33.43, Velocity: 92
Pitch: 61, Start: 32.57, End: 33.43, Velocity: 92
Pitch: 66, Start: 33.43, End: 34.29, Velocity: 92
Pitch: 64, Start: 34.29, End: 34.71, Velocity: 92
Pitch: 66, Start: 34.71, End: 34.93, Velocity: 92
Pitch: 67, Start: 34.93, End: 35.14, Velocity: 92
Pitch: 62, Start: 33.43, End: 35.14, Velocity: 92
Pitch: 69, Start: 35.14, End: 35.57, Velocity: 92
Pitch: 60, Start: 35.14, End: 35.57, Velocity: 92
Pitch: 57, Start: 35.57, End: 36.00, Velocity: 92
Pitch: 66, Start: 36.00, End: 36.43, Velocity: 92
Pitch: 64, Start: 36.43, End: 36.64, Velocity: 92
Pitch: 66, Start: 36.64, End: 36.86, Velocity: 92
Pitch: 72, Start: 35.57, End: 36.86, Velocity: 92
Pitch: 67, Start: 36.86, End: 37.07, Velocity: 92
Pitch: 69, Start: 37.07, End: 37.29, Velocity: 92
Pitch: 66, Start: 37.29, End: 37.50, Velocity: 92
Pitch: 67, Start: 37.50, End: 37.71, Velocity: 92
```

```
Pitch: 71, Start: 36.86, End: 38.14, Velocity: 92
Pitch: 72, Start: 38.14, End: 38.36, Velocity: 92
Pitch: 71, Start: 38.36, End: 38.57, Velocity: 92
Pitch: 69, Start: 38.57, End: 39.00, Velocity: 92
Pitch: 64, Start: 37.71, End: 39.00, Velocity: 92
Pitch: 69, Start: 39.00, End: 39.21, Velocity: 92
Pitch: 67, Start: 39.21, End: 39.43, Velocity: 92
Pitch: 76, Start: 39.00, End: 39.86, Velocity: 92
Pitch: 74, Start: 39.86, End: 40.07, Velocity: 92
Pitch: 73, Start: 40.07, End: 40.29, Velocity: 92
Pitch: 66, Start: 39.43, End: 40.71, Velocity: 92
Pitch: 71, Start: 40.71, End: 40.93, Velocity: 92
Pitch: 69, Start: 40.93, End: 41.14, Velocity: 92
Pitch: 74, Start: 40.29, End: 42.43, Velocity: 92
Pitch: 73, Start: 42.43, End: 42.64, Velocity: 92
Pitch: 71, Start: 42.64, End: 42.86, Velocity: 92
Pitch: 67, Start: 41.14, End: 42.86, Velocity: 92
Pitch: 73, Start: 42.86, End: 43.29, Velocity: 92
Pitch: 74, Start: 43.29, End: 43.50, Velocity: 92
Pitch: 73, Start: 43.50, End: 43.71, Velocity: 92
Pitch: 71, Start: 43.71, End: 44.14, Velocity: 92
Pitch: 69, Start: 44.14, End: 44.36, Velocity: 92
Pitch: 68, Start: 42.86, End: 44.36, Velocity: 92
Pitch: 68, Start: 44.36, End: 44.57, Velocity: 92
Pitch: 66, Start: 45.00, End: 45.21, Velocity: 92
Pitch: 64, Start: 45.21, End: 45.43, Velocity: 92
Pitch: 69, Start: 44.57, End: 45.43, Velocity: 92
Pitch: 67, Start: 45.43, End: 45.86, Velocity: 92
Pitch: 66, Start: 45.86, End: 46.07, Velocity: 92
Pitch: 64, Start: 46.07, End: 46.29, Velocity: 92
Pitch: 73, Start: 45.43, End: 46.29, Velocity: 92
Pitch: 66, Start: 46.29, End: 47.14, Velocity: 92
Pitch: 62, Start: 46.29, End: 47.14, Velocity: 92
Pitch: 63, Start: 47.14, End: 48.00, Velocity: 92
Pitch: 69, Start: 47.14, End: 48.43, Velocity: 92
Pitch: 67, Start: 48.43, End: 48.64, Velocity: 92
Pitch: 66, Start: 48.64, End: 48.86, Velocity: 92
Pitch: 64, Start: 48.00, End: 48.86, Velocity: 92
Pitch: 67, Start: 48.86, End: 49.29, Velocity: 92
Pitch: 64, Start: 49.29, End: 49.50, Velocity: 92
Pitch: 63, Start: 49.50, End: 49.71, Velocity: 92
Pitch: 64, Start: 49.71, End: 50.14, Velocity: 92
Pitch: 59, Start: 49.71, End: 50.14, Velocity: 92
Pitch: 79, Start: 51.64, End: 51.86, Velocity: 92
Pitch: 83, Start: 51.86, End: 52.07, Velocity: 92
Pitch: 71, Start: 52.07, End: 52.29, Velocity: 92
Pitch: 76, Start: 52.29, End: 52.71, Velocity: 92
Pitch: 76, Start: 53.36, End: 53.57, Velocity: 92
```

```
Pitch: 78, Start: 53.57, End: 53.79, Velocity: 92
Pitch: 80, Start: 53.79, End: 54.00, Velocity: 92
Pitch: 81, Start: 54.00, End: 54.86, Velocity: 92
Pitch: 76, Start: 55.07, End: 55.29, Velocity: 92
Pitch: 79, Start: 55.29, End: 55.50, Velocity: 92
Pitch: 67, Start: 55.50, End: 55.71, Velocity: 92
Pitch: 71, Start: 55.71, End: 56.57, Velocity: 92
Pitch: 66, Start: 56.79, End: 57.00, Velocity: 92
Pitch: 69, Start: 57.00, End: 57.21, Velocity: 92
Pitch: 72, Start: 57.21, End: 57.43, Velocity: 92
Pitch: 63, Start: 57.43, End: 58.29, Velocity: 92
Pitch: 64, Start: 58.29, End: 58.50, Velocity: 92
Pitch: 67, Start: 58.50, End: 58.71, Velocity: 92
Pitch: 66, Start: 58.71, End: 58.93, Velocity: 92
Pitch: 69, Start: 58.93, End: 59.14, Velocity: 92
Pitch: 67, Start: 59.14, End: 59.36, Velocity: 92
Pitch: 64, Start: 59.36, End: 59.57, Velocity: 92
Pitch: 71, Start: 59.57, End: 59.79, Velocity: 92
Pitch: 69, Start: 59.79, End: 60.00, Velocity: 92
Pitch: 67, Start: 60.00, End: 60.21, Velocity: 92
Pitch: 71, Start: 60.21, End: 60.43, Velocity: 92
Pitch: 76, Start: 60.43, End: 60.64, Velocity: 92
Pitch: 78, Start: 60.64, End: 60.86, Velocity: 92
Pitch: 79, Start: 60.86, End: 61.07, Velocity: 92
Pitch: 71, Start: 61.07, End: 61.29, Velocity: 92
Pitch: 73, Start: 61.29, End: 61.50, Velocity: 92
Pitch: 74, Start: 61.50, End: 61.71, Velocity: 92
Pitch: 73, Start: 61.71, End: 61.93, Velocity: 92
Pitch: 79, Start: 61.93, End: 62.14, Velocity: 92
Pitch: 78, Start: 62.14, End: 62.36, Velocity: 92
Pitch: 76, Start: 62.36, End: 62.57, Velocity: 92
Pitch: 74, Start: 62.57, End: 62.79, Velocity: 92
Pitch: 73, Start: 62.79, End: 63.00, Velocity: 92
Pitch: 71, Start: 63.00, End: 63.21, Velocity: 92
Pitch: 73, Start: 63.21, End: 63.43, Velocity: 92
Pitch: 70, Start: 63.43, End: 64.35, Velocity: 92
Pitch: 64, Start: 63.43, End: 64.35, Velocity: 92
Pitch: 70, Start: 64.81, End: 65.27, Velocity: 92
Pitch: 64, Start: 64.81, End: 65.27, Velocity: 92
Pitch: 66, Start: 65.27, End: 66.20, Velocity: 92
Pitch: 71, Start: 65.27, End: 66.66, Velocity: 92
Pitch: 73, Start: 66.66, End: 67.12, Velocity: 92
Pitch: 67, Start: 66.20, End: 67.12, Velocity: 92
Pitch: 74, Start: 67.12, End: 67.58, Velocity: 92
Pitch: 73, Start: 67.58, End: 68.51, Velocity: 92
Pitch: 71, Start: 68.51, End: 69.43, Velocity: 92
Pitch: 66, Start: 67.12, End: 69.66, Velocity: 92
Pitch: 64, Start: 69.66, End: 69.89, Velocity: 92
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Pitch: 62, Start: 69.89, End: 70.35, Velocity: 92
Pitch: 79, Start: 69.89, End: 70.35, Velocity: 92
Pitch: 61, Start: 70.35, End: 70.81, Velocity: 92
Pitch: 62, Start: 70.81, End: 71.27, Velocity: 92
Pitch: 78, Start: 70.35, End: 71.27, Velocity: 92
Pitch: 64, Start: 71.27, End: 71.74, Velocity: 92
Pitch: 76, Start: 71.27, End: 71.74, Velocity: 92
Pitch: 66, Start: 71.74, End: 72.20, Velocity: 92
Pitch: 74, Start: 71.74, End: 72.20, Velocity: 92
Pitch: 67, Start: 72.20, End: 72.66, Velocity: 92
Pitch: 73, Start: 72.20, End: 73.12, Velocity: 92
Pitch: 66, Start: 72.66, End: 73.58, Velocity: 92
Pitch: 71, Start: 73.12, End: 74.04, Velocity: 92
Pitch: 64, Start: 73.58, End: 74.51, Velocity: 92
Pitch: 70, Start: 74.04, End: 74.97, Velocity: 92
Pitch: 68, Start: 74.97, End: 75.43, Velocity: 92
Pitch: 70, Start: 75.43, End: 75.89, Velocity: 92
Pitch: 65, Start: 75.89, End: 76.35, Velocity: 92
Pitch: 62, Start: 74.51, End: 76.35, Velocity: 92
Pitch: 66, Start: 76.35, End: 77.27, Velocity: 92
Pitch: 61, Start: 76.35, End: 77.27, Velocity: 92
Pitch: 59, Start: 77.27, End: 78.20, Velocity: 92
Pitch: 71, Start: 77.27, End: 78.43, Velocity: 92
Pitch: 74, Start: 78.43, End: 78.66, Velocity: 92
Pitch: 73, Start: 78.66, End: 78.89, Velocity: 92
Pitch: 71, Start: 78.89, End: 79.12, Velocity: 92
Pitch: 70, Start: 79.12, End: 79.81, Velocity: 92
Pitch: 71, Start: 79.81, End: 80.04, Velocity: 92
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Pitch: 66, Start: 80.04, End: 84.04, Velocity: 92
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Pitch: 73, Start: 87.27, End: 87.74, Velocity: 92
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Pitch: 66, Start: 88.66, End: 89.12, Velocity: 92
Pitch: 78, Start: 88.20, End: 89.12, Velocity: 92
Pitch: 68, Start: 89.12, End: 89.58, Velocity: 92
Pitch: 70, Start: 89.58, End: 90.04, Velocity: 92
Pitch: 78, Start: 89.12, End: 90.04, Velocity: 92
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Pitch: 74, Start: 90.97, End: 91.89, Velocity: 92
Pitch: 71, Start: 90.97, End: 91.89, Velocity: 92
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Pitch: 70, Start: 91.89, End: 92.35, Velocity: 92
Pitch: 78, Start: 92.35, End: 92.81, Velocity: 92
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Pitch: 70, Start: 94.20, End: 94.66, Velocity: 92
Pitch: 68, Start: 94.66, End: 95.12, Velocity: 92
Pitch: 73, Start: 93.74, End: 95.12, Velocity: 92
Pitch: 78, Start: 95.58, End: 96.04, Velocity: 92
Pitch: 76, Start: 96.04, End: 96.50, Velocity: 92
Pitch: 70, Start: 95.12, End: 96.50, Velocity: 92
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Pitch: 78, Start: 98.81, End: 99.27, Velocity: 92
Pitch: 74, Start: 98.81, End: 99.27, Velocity: 92
Pitch: 76, Start: 99.27, End: 99.74, Velocity: 92
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Pitch: 74, Start: 99.74, End: 100.20, Velocity: 92
Pitch: 74, Start: 100.20, End: 100.66, Velocity: 92
Pitch: 71, Start: 100.20, End: 101.12, Velocity: 92
Pitch: 70, Start: 101.12, End: 101.58, Velocity: 92
Pitch: 73, Start: 100.66, End: 101.58, Velocity: 92
Pitch: 71, Start: 101.58, End: 102.04, Velocity: 92
Pitch: 73, Start: 102.04, End: 102.50, Velocity: 92
Pitch: 71, Start: 102.50, End: 102.97, Velocity: 92
Pitch: 70, Start: 102.97, End: 103.43, Velocity: 92
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Pitch: 79, Start: 104.35, End: 104.81, Velocity: 92
Pitch: 74, Start: 103.43, End: 104.81, Velocity: 92
Pitch: 81, Start: 104.81, End: 105.27, Velocity: 92
Pitch: 79, Start: 105.27, End: 105.74, Velocity: 92
Pitch: 78, Start: 105.74, End: 106.20, Velocity: 92
Pitch: 69, Start: 104.81, End: 106.20, Velocity: 92
Pitch: 76, Start: 106.20, End: 106.66, Velocity: 92
Pitch: 78, Start: 106.66, End: 107.12, Velocity: 92
Pitch: 74, Start: 107.12, End: 107.58, Velocity: 92
Pitch: 71, Start: 106.20, End: 107.58, Velocity: 92
Pitch: 73, Start: 107.58, End: 108.04, Velocity: 92
Pitch: 69, Start: 107.58, End: 108.04, Velocity: 92
Pitch: 69, Start: 108.04, End: 108.97, Velocity: 92
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Pitch: 69, Start: 109.43, End: 109.89, Velocity: 92
Pitch: 73, Start: 109.89, End: 110.35, Velocity: 92
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Pitch: 74, Start: 110.35, End: 111.74, Velocity: 92
Pitch: 66, Start: 110.35, End: 111.74, Velocity: 92
Pitch: 62, Start: 111.74, End: 112.20, Velocity: 92
Pitch: 64, Start: 112.20, End: 112.66, Velocity: 92
Pitch: 66, Start: 112.66, End: 113.12, Velocity: 92
Pitch: 67, Start: 113.12, End: 113.58, Velocity: 92
Pitch: 69, Start: 113.58, End: 114.04, Velocity: 92
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Pitch: 69, Start: 116.81, End: 117.27, Velocity: 92
Pitch: 68, Start: 117.27, End: 117.74, Velocity: 92
Pitch: 66, Start: 117.74, End: 118.20, Velocity: 92
Pitch: 76, Start: 117.74, End: 118.20, Velocity: 92
Pitch: 68, Start: 118.20, End: 118.66, Velocity: 92
Pitch: 74, Start: 118.20, End: 118.66, Velocity: 92
Pitch: 73, Start: 118.66, End: 119.12, Velocity: 92
Pitch: 71, Start: 119.12, End: 119.58, Velocity: 92
Pitch: 69, Start: 118.66, End: 119.58, Velocity: 92
Pitch: 73, Start: 119.58, End: 120.04, Velocity: 92
Pitch: 67, Start: 119.58, End: 120.04, Velocity: 92
Pitch: 74, Start: 120.04, End: 120.50, Velocity: 92
Pitch: 78, Start: 120.50, End: 120.97, Velocity: 92
Pitch: 66, Start: 120.04, End: 120.97, Velocity: 92
Pitch: 76, Start: 121.43, End: 121.89, Velocity: 92
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Pitch: 74, Start: 122.81, End: 123.74, Velocity: 92
Pitch: 71, Start: 122.81, End: 123.74, Velocity: 92
Pitch: 73, Start: 123.74, End: 124.20, Velocity: 92
Pitch: 71, Start: 124.20, End: 124.66, Velocity: 92
Pitch: 73, Start: 124.66, End: 125.12, Velocity: 92
Pitch: 74, Start: 125.12, End: 125.58, Velocity: 92
Pitch: 76, Start: 125.58, End: 126.04, Velocity: 92
Pitch: 69, Start: 126.04, End: 127.89, Velocity: 92
Pitch: 67, Start: 127.89, End: 128.81, Velocity: 92
Pitch: 69, Start: 128.81, End: 129.04, Velocity: 92
Pitch: 67, Start: 129.04, End: 129.27, Velocity: 92
Pitch: 66, Start: 129.27, End: 129.50, Velocity: 92
Pitch: 64, Start: 129.50, End: 129.74, Velocity: 92
Pitch: 66, Start: 129.74, End: 130.20, Velocity: 92
Pitch: 74, Start: 130.20, End: 131.58, Velocity: 92
Pitch: 73, Start: 131.58, End: 132.04, Velocity: 92
Pitch: 69, Start: 131.58, End: 132.04, Velocity: 92
Pitch: 74, Start: 132.04, End: 132.50, Velocity: 92
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Pitch: 76, Start: 132.50, End: 134.35, Velocity: 92
Pitch: 73, Start: 132.50, End: 134.35, Velocity: 92
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Pitch: 73, Start: 134.81, End: 135.27, Velocity: 92
Pitch: 69, Start: 134.81, End: 135.27, Velocity: 92
Pitch: 71, Start: 135.27, End: 136.20, Velocity: 92
Pitch: 68, Start: 135.27, End: 136.20, Velocity: 92
Pitch: 73, Start: 136.20, End: 136.66, Velocity: 92
Pitch: 70, Start: 136.20, End: 136.66, Velocity: 92
Pitch: 71, Start: 136.66, End: 137.12, Velocity: 92
Pitch: 74, Start: 136.66, End: 137.12, Velocity: 92
Pitch: 78, Start: 137.12, End: 137.58, Velocity: 92
Pitch: 79, Start: 137.58, End: 138.04, Velocity: 92
Pitch: 74, Start: 137.12, End: 138.04, Velocity: 92
Pitch: 76, Start: 138.04, End: 138.50, Velocity: 92
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Pitch: 78, Start: 138.50, End: 139.43, Velocity: 92
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Pitch: 71, Start: 140.35, End: 140.81, Velocity: 92
Pitch: 76, Start: 139.89, End: 140.81, Velocity: 92
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Pitch: 69, Start: 141.73, End: 142.20, Velocity: 92
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Pitch: 76, Start: 142.20, End: 142.89, Velocity: 92
Pitch: 78, Start: 142.89, End: 143.12, Velocity: 92
Pitch: 79, Start: 143.12, End: 143.35, Velocity: 92
Pitch: 81, Start: 143.35, End: 143.58, Velocity: 92
Pitch: 73, Start: 142.66, End: 143.58, Velocity: 92
Pitch: 78, Start: 143.58, End: 144.04, Velocity: 92
Pitch: 74, Start: 143.58, End: 144.04, Velocity: 92
Pitch: 71, Start: 144.04, End: 144.50, Velocity: 92
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Pitch: 68, Start: 145.89, End: 146.35, Velocity: 92
Pitch: 70, Start: 146.35, End: 147.27, Velocity: 92
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Pitch: 73, Start: 147.73, End: 148.20, Velocity: 92
Pitch: 67, Start: 147.73, End: 148.20, Velocity: 92
Pitch: 70, Start: 148.20, End: 148.89, Velocity: 92
Pitch: 66, Start: 148.20, End: 148.89, Velocity: 92
Pitch: 71, Start: 148.89, End: 149.12, Velocity: 92
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Pitch: 71, Start: 149.12, End: 150.50, Velocity: 92
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Pitch: 59, Start: 152.35, End: 152.81, Velocity: 92
Pitch: 69, Start: 152.35, End: 152.81, Velocity: 92
Pitch: 61, Start: 152.81, End: 153.27, Velocity: 92
Pitch: 67, Start: 152.81, End: 153.27, Velocity: 92
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Pitch: 61, Start: 153.73, End: 154.20, Velocity: 92
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Pitch: 73, Start: 155.58, End: 156.04, Velocity: 92
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Pitch: 66, Start: 156.04, End: 156.50, Velocity: 92
Pitch: 74, Start: 156.04, End: 156.97, Velocity: 92
Pitch: 76, Start: 156.97, End: 157.43, Velocity: 92
Pitch: 78, Start: 157.43, End: 157.89, Velocity: 92
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Pitch: 73, Start: 158.12, End: 158.35, Velocity: 92
Pitch: 71, Start: 158.35, End: 158.58, Velocity: 92
Pitch: 69, Start: 158.58, End: 158.81, Velocity: 92
Pitch: 66, Start: 157.89, End: 158.81, Velocity: 92
Pitch: 68, Start: 158.81, End: 159.27, Velocity: 92
Pitch: 70, Start: 159.27, End: 159.73, Velocity: 92
Pitch: 64, Start: 158.81, End: 159.73, Velocity: 92
Pitch: 71, Start: 159.73, End: 160.20, Velocity: 92
Pitch: 62, Start: 159.73, End: 160.20, Velocity: 92
Pitch: 70, Start: 160.20, End: 160.66, Velocity: 92
Pitch: 61, Start: 160.20, End: 160.66, Velocity: 92
Pitch: 70, Start: 160.66, End: 161.12, Velocity: 92
Pitch: 71, Start: 161.12, End: 161.58, Velocity: 92
Pitch: 66, Start: 160.66, End: 161.58, Velocity: 92
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Pitch: 64, Start: 163.89, End: 164.35, Velocity: 92
Pitch: 66, Start: 164.35, End: 164.81, Velocity: 92
Pitch: 64, Start: 164.81, End: 165.27, Velocity: 92
Pitch: 66, Start: 165.27, End: 165.73, Velocity: 92
Pitch: 67, Start: 165.73, End: 166.20, Velocity: 92
Pitch: 64, Start: 166.20, End: 166.66, Velocity: 92
Pitch: 66, Start: 166.66, End: 167.12, Velocity: 92
Pitch: 67, Start: 167.12, End: 167.58, Velocity: 92
Pitch: 64, Start: 167.58, End: 168.04, Velocity: 92
Pitch: 62, Start: 168.04, End: 168.50, Velocity: 92
Pitch: 66, Start: 168.97, End: 169.43, Velocity: 92
Pitch: 68, Start: 169.43, End: 169.89, Velocity: 92
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Pitch: 69, Start: 173.35, End: 173.58, Velocity: 92
Pitch: 62, Start: 173.12, End: 173.58, Velocity: 92
Pitch: 67, Start: 173.58, End: 173.81, Velocity: 92
Pitch: 69, Start: 173.81, End: 174.04, Velocity: 92
Pitch: 64, Start: 173.58, End: 174.04, Velocity: 92
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Pitch: 64, Start: 174.97, End: 175.43, Velocity: 92
Pitch: 76, Start: 174.97, End: 175.43, Velocity: 92
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Pitch: 71, Start: 176.81, End: 177.27, Velocity: 92
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Pitch: 73, Start: 177.27, End: 177.73, Velocity: 92
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Pitch: 74, Start: 177.73, End: 178.20, Velocity: 92
Pitch: 76, Start: 178.20, End: 178.66, Velocity: 92
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Pitch: 66, Start: 179.58, End: 180.04, Velocity: 92
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Pitch: 67, Start: 180.50, End: 180.96, Velocity: 92
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Pitch: 78, Start: 183.27, End: 183.73, Velocity: 92
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Pitch: 61, Start: 190.20, End: 190.66, Velocity: 92
Pitch: 71, Start: 190.66, End: 191.12, Velocity: 92
Pitch: 73, Start: 191.12, End: 191.58, Velocity: 92
Pitch: 74, Start: 191.58, End: 192.04, Velocity: 92
Pitch: 66, Start: 190.66, End: 192.04, Velocity: 92
Pitch: 73, Start: 192.04, End: 192.50, Velocity: 92
Pitch: 67, Start: 192.04, End: 192.50, Velocity: 92
Pitch: 71, Start: 192.50, End: 192.96, Velocity: 92
Pitch: 66, Start: 192.50, End: 192.96, Velocity: 92
Pitch: 70, Start: 192.96, End: 193.43, Velocity: 92
```

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Pitch: 64, Start: 192.96, End: 193.43, Velocity: 92
Pitch: 66, Start: 193.43, End: 193.89, Velocity: 92
Pitch: 66, Start: 193.89, End: 194.35, Velocity: 92
Pitch: 67, Start: 194.35, End: 194.81, Velocity: 92
Pitch: 71, Start: 193.43, End: 194.81, Velocity: 92
Pitch: 69, Start: 194.81, End: 195.73, Velocity: 92
Pitch: 71, Start: 195.73, End: 196.20, Velocity: 92
Pitch: 64, Start: 196.20, End: 196.66, Velocity: 92
Pitch: 76, Start: 196.66, End: 197.12, Velocity: 92
Pitch: 78, Start: 197.12, End: 197.58, Velocity: 92
Pitch: 76, Start: 198.04, End: 198.50, Velocity: 92
Pitch: 79, Start: 197.58, End: 198.50, Velocity: 92
Pitch: 81, Start: 198.50, End: 198.96, Velocity: 92
Pitch: 74, Start: 198.50, End: 198.96, Velocity: 92
Pitch: 71, Start: 198.96, End: 199.89, Velocity: 92
Pitch: 74, Start: 198.96, End: 199.89, Velocity: 92
Pitch: 76, Start: 199.89, End: 200.35, Velocity: 92
Pitch: 73, Start: 199.89, End: 200.35, Velocity: 92
Pitch: 78, Start: 200.35, End: 200.81, Velocity: 92
Pitch: 79, Start: 200.81, End: 201.27, Velocity: 92
Pitch: 81, Start: 201.27, End: 201.73, Velocity: 92
Pitch: 79, Start: 201.73, End: 202.20, Velocity: 92
Pitch: 78, Start: 202.20, End: 202.66, Velocity: 92
Pitch: 74, Start: 200.35, End: 202.66, Velocity: 92
Pitch: 76, Start: 202.66, End: 203.12, Velocity: 92
Pitch: 73, Start: 202.66, End: 203.58, Velocity: 92
Pitch: 70, Start: 203.58, End: 204.04, Velocity: 92
Pitch: 78, Start: 203.12, End: 204.50, Velocity: 92
Pitch: 71, Start: 204.04, End: 204.96, Velocity: 92
Pitch: 68, Start: 204.96, End: 205.43, Velocity: 92
Pitch: 76, Start: 204.50, End: 205.89, Velocity: 92
Pitch: 69, Start: 205.43, End: 206.35, Velocity: 92
Pitch: 66, Start: 206.35, End: 206.81, Velocity: 92
Pitch: 74, Start: 205.89, End: 207.27, Velocity: 92
Pitch: 67, Start: 206.81, End: 207.73, Velocity: 92
Pitch: 64, Start: 207.73, End: 208.20, Velocity: 92
Pitch: 73, Start: 207.27, End: 208.66, Velocity: 92
Pitch: 66, Start: 208.20, End: 209.12, Velocity: 92
Pitch: 64, Start: 209.12, End: 210.04, Velocity: 92
Pitch: 71, Start: 208.66, End: 210.04, Velocity: 92
Pitch: 70, Start: 210.04, End: 210.96, Velocity: 92
Pitch: 78, Start: 210.96, End: 211.43, Velocity: 92
Pitch: 66, Start: 210.04, End: 211.43, Velocity: 92
Pitch: 79, Start: 211.43, End: 211.89, Velocity: 92
Pitch: 78, Start: 211.89, End: 212.35, Velocity: 92
Pitch: 76, Start: 212.35, End: 212.81, Velocity: 92
Pitch: 71, Start: 211.43, End: 212.81, Velocity: 92
Pitch: 78, Start: 212.81, End: 213.27, Velocity: 92
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Pitch: 76, Start: 213.27, End: 213.73, Velocity: 92
Pitch: 74, Start: 213.73, End: 214.20, Velocity: 92
Pitch: 66, Start: 212.81, End: 214.20, Velocity: 92
Pitch: 76, Start: 214.20, End: 214.66, Velocity: 92
Pitch: 71, Start: 214.20, End: 214.66, Velocity: 92
Pitch: 74, Start: 214.66, End: 215.12, Velocity: 92
Pitch: 69, Start: 214.66, End: 215.12, Velocity: 92
Pitch: 73, Start: 215.12, End: 215.58, Velocity: 92
Pitch: 67, Start: 215.12, End: 215.58, Velocity: 92
Pitch: 74, Start: 215.58, End: 216.04, Velocity: 92
Pitch: 73, Start: 216.04, End: 216.50, Velocity: 92
Pitch: 71, Start: 216.50, End: 216.96, Velocity: 92
Pitch: 66, Start: 215.58, End: 216.96, Velocity: 92
Pitch: 76, Start: 216.96, End: 217.43, Velocity: 92
Pitch: 64, Start: 216.96, End: 217.43, Velocity: 92
Pitch: 74, Start: 217.43, End: 217.89, Velocity: 92
Pitch: 73, Start: 217.89, End: 218.35, Velocity: 92
Pitch: 74, Start: 218.35, End: 218.81, Velocity: 92
Pitch: 73, Start: 218.81, End: 219.27, Velocity: 92
Pitch: 71, Start: 219.27, End: 219.73, Velocity: 92
Pitch: 66, Start: 217.43, End: 219.73, Velocity: 92
Pitch: 73, Start: 219.73, End: 220.19, Velocity: 92
Pitch: 67, Start: 219.73, End: 220.19, Velocity: 92
Pitch: 70, Start: 220.19, End: 220.89, Velocity: 92
Pitch: 70, Start: 220.89, End: 221.12, Velocity: 92
Pitch: 71, Start: 221.12, End: 221.58, Velocity: 92
Pitch: 66, Start: 220.19, End: 221.58, Velocity: 92
Pitch: 63, Start: 221.58, End: 222.04, Velocity: 92
Pitch: 78, Start: 221.58, End: 222.04, Velocity: 92
Pitch: 64, Start: 222.04, End: 222.50, Velocity: 92
Pitch: 79, Start: 222.04, End: 222.50, Velocity: 92
Pitch: 81, Start: 222.50, End: 222.96, Velocity: 92
Pitch: 66, Start: 222.50, End: 222.96, Velocity: 92
Pitch: 78, Start: 222.96, End: 223.43, Velocity: 92
Pitch: 63, Start: 222.96, End: 223.43, Velocity: 92
Pitch: 79, Start: 223.43, End: 223.89, Velocity: 92
Pitch: 64, Start: 223.43, End: 223.89, Velocity: 92
Pitch: 66, Start: 223.89, End: 224.35, Velocity: 92
Pitch: 75, Start: 223.89, End: 224.35, Velocity: 92
Pitch: 69, Start: 224.35, End: 224.81, Velocity: 92
Pitch: 78, Start: 224.35, End: 224.81, Velocity: 92
Pitch: 67, Start: 224.81, End: 225.27, Velocity: 92
Pitch: 76, Start: 224.81, End: 225.27, Velocity: 92
Pitch: 73, Start: 225.27, End: 225.73, Velocity: 92
Pitch: 64, Start: 225.27, End: 225.73, Velocity: 92
Pitch: 76, Start: 225.73, End: 226.19, Velocity: 92
Pitch: 61, Start: 225.73, End: 226.19, Velocity: 92
Pitch: 70, Start: 226.19, End: 226.66, Velocity: 92
```

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Pitch: 64, Start: 226.19, End: 226.66, Velocity: 92
Pitch: 63, Start: 226.66, End: 228.04, Velocity: 92
Pitch: 64, Start: 228.04, End: 228.50, Velocity: 92
Pitch: 66, Start: 228.50, End: 228.96, Velocity: 92
Pitch: 67, Start: 228.96, End: 229.43, Velocity: 92
Pitch: 66, Start: 229.43, End: 229.89, Velocity: 92
Pitch: 67, Start: 229.89, End: 230.35, Velocity: 92
Pitch: 69, Start: 230.35, End: 230.81, Velocity: 92
Pitch: 71, Start: 226.66, End: 230.81, Velocity: 92
Pitch: 71, Start: 230.81, End: 231.27, Velocity: 92
Pitch: 69, Start: 231.27, End: 231.73, Velocity: 92
Pitch: 67, Start: 231.73, End: 232.19, Velocity: 92
Pitch: 66, Start: 232.19, End: 233.12, Velocity: 92
Pitch: 64, Start: 233.12, End: 233.58, Velocity: 92
Pitch: 63, Start: 233.58, End: 234.96, Velocity: 92
Pitch: 64, Start: 234.96, End: 235.43, Velocity: 92
Pitch: 71, Start: 235.43, End: 235.89, Velocity: 92
Pitch: 69, Start: 235.89, End: 236.35, Velocity: 92
Pitch: 76, Start: 236.83, End: 237.31, Velocity: 92
Pitch: 74, Start: 237.31, End: 237.79, Velocity: 92
Pitch: 73, Start: 237.79, End: 238.04, Velocity: 92
Pitch: 71, Start: 238.04, End: 238.29, Velocity: 92
Pitch: 67, Start: 236.35, End: 238.29, Velocity: 92
Pitch: 70, Start: 238.29, End: 238.37, Velocity: 92
Pitch: 71, Start: 238.37, End: 238.45, Velocity: 92
Pitch: 66, Start: 238.29, End: 238.92, Velocity: 92
Pitch: 70, Start: 238.45, End: 239.24, Velocity: 92
Pitch: 71, Start: 239.24, End: 239.55, Velocity: 92
Pitch: 64, Start: 238.92, End: 239.55, Velocity: 92
Pitch: 63, Start: 239.55, End: 242.55, Velocity: 92
Pitch: 71, Start: 239.55, End: 242.55, Velocity: 92
Instrument: Acoustic Grand Piano
Pitch: 62, Start: 0.00, End: 0.86, Velocity: 92
Pitch: 71, Start: 1.29, End: 1.50, Velocity: 92
Pitch: 69, Start: 1.50, End: 1.71, Velocity: 92
Pitch: 71, Start: 1.71, End: 2.14, Velocity: 92
Pitch: 67, Start: 2.14, End: 2.36, Velocity: 92
Pitch: 66, Start: 2.36, End: 2.57, Velocity: 92
Pitch: 67, Start: 2.57, End: 3.00, Velocity: 92
Pitch: 66, Start: 3.00, End: 3.21, Velocity: 92
Pitch: 64, Start: 3.21, End: 3.43, Velocity: 92
Pitch: 66, Start: 3.43, End: 4.71, Velocity: 92
Pitch: 64, Start: 4.71, End: 4.93, Velocity: 92
Pitch: 62, Start: 4.93, End: 5.14, Velocity: 92
Pitch: 64, Start: 5.14, End: 6.86, Velocity: 92
Pitch: 66, Start: 6.86, End: 7.71, Velocity: 92
Pitch: 62, Start: 8.14, End: 8.36, Velocity: 92
Pitch: 61, Start: 8.36, End: 8.57, Velocity: 92
```

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Pitch: 62, Start: 8.57, End: 10.71, Velocity: 92
Pitch: 61, Start: 10.71, End: 10.93, Velocity: 92
Pitch: 59, Start: 10.93, End: 11.14, Velocity: 92
Pitch: 64, Start: 11.14, End: 15.00, Velocity: 92
Pitch: 62, Start: 15.00, End: 15.21, Velocity: 92
Pitch: 61, Start: 15.21, End: 15.43, Velocity: 92
Pitch: 66, Start: 15.43, End: 17.14, Velocity: 92
Pitch: 62, Start: 17.14, End: 18.86, Velocity: 92
Pitch: 62, Start: 19.29, End: 19.50, Velocity: 92
Pitch: 61, Start: 19.50, End: 19.71, Velocity: 92
Pitch: 62, Start: 19.71, End: 21.43, Velocity: 92
Pitch: 61, Start: 21.43, End: 23.14, Velocity: 92
Pitch: 66, Start: 23.14, End: 24.86, Velocity: 92
Pitch: 68, Start: 24.86, End: 26.57, Velocity: 92
Pitch: 68, Start: 27.00, End: 27.21, Velocity: 92
Pitch: 66, Start: 27.21, End: 27.43, Velocity: 92
Pitch: 65, Start: 27.43, End: 29.14, Velocity: 92
Pitch: 66, Start: 29.14, End: 30.00, Velocity: 92
Pitch: 54, Start: 33.86, End: 34.07, Velocity: 92
Pitch: 55, Start: 34.07, End: 34.29, Velocity: 92
Pitch: 57, Start: 34.29, End: 35.57, Velocity: 92
Pitch: 54, Start: 35.57, End: 35.79, Velocity: 92
Pitch: 52, Start: 35.79, End: 36.00, Velocity: 92
Pitch: 50, Start: 36.00, End: 36.86, Velocity: 92
Pitch: 55, Start: 36.86, End: 38.14, Velocity: 92
Pitch: 52, Start: 38.14, End: 38.57, Velocity: 92
Pitch: 57, Start: 38.57, End: 39.86, Velocity: 92
Pitch: 54, Start: 39.86, End: 40.29, Velocity: 92
Pitch: 59, Start: 40.29, End: 41.57, Velocity: 92
Pitch: 61, Start: 41.57, End: 41.79, Velocity: 92
Pitch: 62, Start: 41.79, End: 42.00, Velocity: 92
Pitch: 64, Start: 42.00, End: 43.71, Velocity: 92
Pitch: 62, Start: 43.71, End: 44.57, Velocity: 92
Pitch: 61, Start: 44.57, End: 45.43, Velocity: 92
Pitch: 59, Start: 46.71, End: 46.93, Velocity: 92
Pitch: 57, Start: 46.93, End: 47.14, Velocity: 92
Pitch: 60, Start: 47.14, End: 47.57, Velocity: 92
Pitch: 59, Start: 47.57, End: 47.79, Velocity: 92
Pitch: 57, Start: 47.79, End: 48.00, Velocity: 92
Pitch: 59, Start: 48.00, End: 49.29, Velocity: 92
Pitch: 55, Start: 49.29, End: 49.50, Velocity: 92
Pitch: 54, Start: 49.50, End: 49.71, Velocity: 92
Pitch: 55, Start: 49.71, End: 50.14, Velocity: 92
Pitch: 52, Start: 50.14, End: 50.36, Velocity: 92
Pitch: 54, Start: 50.36, End: 50.57, Velocity: 92
Pitch: 55, Start: 50.57, End: 51.00, Velocity: 92
Pitch: 47, Start: 51.00, End: 51.21, Velocity: 92
Pitch: 51, Start: 51.21, End: 51.43, Velocity: 92
```

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Pitch: 52, Start: 51.43, End: 51.86, Velocity: 92
Pitch: 64, Start: 52.50, End: 52.71, Velocity: 92
Pitch: 67, Start: 52.71, End: 52.93, Velocity: 92
Pitch: 59, Start: 52.93, End: 53.14, Velocity: 92
Pitch: 60, Start: 53.14, End: 54.00, Velocity: 92
Pitch: 60, Start: 54.21, End: 54.43, Velocity: 92
Pitch: 59, Start: 54.43, End: 54.64, Velocity: 92
Pitch: 57, Start: 54.64, End: 54.86, Velocity: 92
Pitch: 59, Start: 54.86, End: 55.71, Velocity: 92
Pitch: 59, Start: 55.93, End: 56.14, Velocity: 92
Pitch: 64, Start: 56.14, End: 56.36, Velocity: 92
Pitch: 55, Start: 56.36, End: 56.57, Velocity: 92
Pitch: 57, Start: 56.57, End: 57.43, Velocity: 92
Pitch: 54, Start: 57.43, End: 57.64, Velocity: 92
Pitch: 57, Start: 57.64, End: 57.86, Velocity: 92
Pitch: 55, Start: 57.86, End: 58.07, Velocity: 92
Pitch: 54, Start: 58.07, End: 58.29, Velocity: 92
Pitch: 55, Start: 58.29, End: 59.14, Velocity: 92
Pitch: 61, Start: 63.43, End: 64.35, Velocity: 92
Pitch: 61, Start: 64.81, End: 65.27, Velocity: 92
Pitch: 59, Start: 65.27, End: 67.58, Velocity: 92
Pitch: 58, Start: 67.58, End: 68.04, Velocity: 92
Pitch: 62, Start: 68.04, End: 68.97, Velocity: 92
Pitch: 61, Start: 68.97, End: 69.89, Velocity: 92
Pitch: 59, Start: 69.89, End: 70.35, Velocity: 92
Pitch: 58, Start: 70.35, End: 70.81, Velocity: 92
Pitch: 59, Start: 70.81, End: 71.27, Velocity: 92
Pitch: 61, Start: 71.27, End: 71.74, Velocity: 92
Pitch: 62, Start: 71.74, End: 72.20, Velocity: 92
Pitch: 64, Start: 72.20, End: 72.66, Velocity: 92
Pitch: 62, Start: 72.66, End: 73.58, Velocity: 92
Pitch: 61, Start: 73.58, End: 74.51, Velocity: 92
Pitch: 59, Start: 74.51, End: 76.35, Velocity: 92
Pitch: 58, Start: 76.35, End: 76.81, Velocity: 92
Pitch: 64, Start: 76.81, End: 77.27, Velocity: 92
Pitch: 62, Start: 77.27, End: 77.74, Velocity: 92
Pitch: 61, Start: 77.74, End: 78.20, Velocity: 92
Pitch: 61, Start: 78.20, End: 80.04, Velocity: 92
Pitch: 63, Start: 80.04, End: 84.04, Velocity: 92
Pitch: 59, Start: 91.43, End: 91.89, Velocity: 92
Pitch: 61, Start: 91.89, End: 92.35, Velocity: 92
Pitch: 62, Start: 92.35, End: 92.81, Velocity: 92
Pitch: 61, Start: 92.81, End: 93.27, Velocity: 92
Pitch: 59, Start: 93.27, End: 93.74, Velocity: 92
Pitch: 66, Start: 93.74, End: 95.12, Velocity: 92
Pitch: 54, Start: 95.12, End: 96.50, Velocity: 92
Pitch: 55, Start: 96.50, End: 96.97, Velocity: 92
Pitch: 67, Start: 96.97, End: 97.43, Velocity: 92
```

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Pitch: 66, Start: 97.43, End: 97.89, Velocity: 92
Pitch: 64, Start: 97.89, End: 98.81, Velocity: 92
Pitch: 64, Start: 99.27, End: 100.20, Velocity: 92
Pitch: 66, Start: 100.66, End: 105.27, Velocity: 92
Pitch: 64, Start: 105.27, End: 105.74, Velocity: 92
Pitch: 62, Start: 105.74, End: 106.20, Velocity: 92
Pitch: 67, Start: 106.20, End: 107.12, Velocity: 92
Pitch: 66, Start: 107.12, End: 107.58, Velocity: 92
Pitch: 64, Start: 107.58, End: 108.04, Velocity: 92
Pitch: 67, Start: 108.04, End: 108.50, Velocity: 92
Pitch: 66, Start: 108.50, End: 108.97, Velocity: 92
Pitch: 64, Start: 108.97, End: 110.35, Velocity: 92
Pitch: 62, Start: 110.81, End: 111.27, Velocity: 92
Pitch: 61, Start: 111.27, End: 111.74, Velocity: 92
Pitch: 59, Start: 111.74, End: 112.20, Velocity: 92
Pitch: 61, Start: 112.20, End: 112.66, Velocity: 92
Pitch: 62, Start: 112.66, End: 113.12, Velocity: 92
Pitch: 64, Start: 113.12, End: 114.97, Velocity: 92
Pitch: 62, Start: 114.97, End: 115.43, Velocity: 92
Pitch: 61, Start: 115.43, End: 115.89, Velocity: 92
Pitch: 62, Start: 115.89, End: 117.27, Velocity: 92
Pitch: 64, Start: 117.27, End: 118.66, Velocity: 92
Pitch: 57, Start: 118.66, End: 120.04, Velocity: 92
Pitch: 62, Start: 120.04, End: 121.43, Velocity: 92
Pitch: 61, Start: 121.43, End: 122.81, Velocity: 92
Pitch: 59, Start: 123.27, End: 123.74, Velocity: 92
Pitch: 61, Start: 123.74, End: 124.20, Velocity: 92
Pitch: 62, Start: 124.20, End: 124.66, Velocity: 92
Pitch: 61, Start: 124.66, End: 125.12, Velocity: 92
Pitch: 59, Start: 125.12, End: 125.58, Velocity: 92
Pitch: 61, Start: 125.58, End: 126.04, Velocity: 92
Pitch: 66, Start: 126.04, End: 126.50, Velocity: 92
Pitch: 64, Start: 126.50, End: 126.97, Velocity: 92
Pitch: 63, Start: 126.97, End: 127.43, Velocity: 92
Pitch: 59, Start: 127.43, End: 127.89, Velocity: 92
Pitch: 64, Start: 127.89, End: 128.35, Velocity: 92
Pitch: 61, Start: 128.35, End: 129.74, Velocity: 92
Pitch: 62, Start: 129.74, End: 130.43, Velocity: 92
Pitch: 64, Start: 130.43, End: 130.66, Velocity: 92
Pitch: 66, Start: 130.66, End: 131.12, Velocity: 92
Pitch: 64, Start: 131.12, End: 132.50, Velocity: 92
Pitch: 67, Start: 137.12, End: 137.58, Velocity: 92
Pitch: 67, Start: 137.58, End: 138.50, Velocity: 92
Pitch: 69, Start: 138.50, End: 138.97, Velocity: 92
Pitch: 69, Start: 138.97, End: 139.89, Velocity: 92
Pitch: 67, Start: 139.89, End: 140.35, Velocity: 92
Pitch: 67, Start: 140.35, End: 141.73, Velocity: 92
Pitch: 66, Start: 141.73, End: 142.20, Velocity: 92
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Pitch: 67, Start: 142.20, End: 142.66, Velocity: 92
Pitch: 69, Start: 142.66, End: 143.12, Velocity: 92
Pitch: 57, Start: 143.12, End: 143.58, Velocity: 92
Pitch: 62, Start: 143.58, End: 144.04, Velocity: 92
Pitch: 59, Start: 149.58, End: 150.04, Velocity: 92
Pitch: 57, Start: 150.04, End: 150.50, Velocity: 92
Pitch: 56, Start: 150.50, End: 150.97, Velocity: 92
Pitch: 54, Start: 150.97, End: 151.43, Velocity: 92
Pitch: 56, Start: 151.43, End: 151.89, Velocity: 92
Pitch: 57, Start: 151.89, End: 152.81, Velocity: 92
Pitch: 57, Start: 152.81, End: 153.27, Velocity: 92
Pitch: 59, Start: 153.27, End: 153.73, Velocity: 92
Pitch: 59, Start: 153.73, End: 154.20, Velocity: 92
Pitch: 57, Start: 154.20, End: 154.66, Velocity: 92
Pitch: 55, Start: 154.66, End: 155.58, Velocity: 92
Pitch: 57, Start: 155.58, End: 156.04, Velocity: 92
Pitch: 59, Start: 156.04, End: 156.97, Velocity: 92
Pitch: 61, Start: 156.97, End: 157.43, Velocity: 92
Pitch: 62, Start: 157.43, End: 159.27, Velocity: 92
Pitch: 61, Start: 159.27, End: 159.73, Velocity: 92
Pitch: 59, Start: 159.73, End: 160.20, Velocity: 92
Pitch: 54, Start: 160.20, End: 162.97, Velocity: 92
Pitch: 59, Start: 163.43, End: 164.81, Velocity: 92
Pitch: 59, Start: 164.81, End: 165.27, Velocity: 92
Pitch: 57, Start: 165.27, End: 165.73, Velocity: 92
Pitch: 55, Start: 165.73, End: 166.20, Velocity: 92
Pitch: 61, Start: 166.20, End: 166.66, Velocity: 92
Pitch: 62, Start: 166.66, End: 167.12, Velocity: 92
Pitch: 64, Start: 167.12, End: 167.58, Velocity: 92
Pitch: 61, Start: 167.58, End: 168.04, Velocity: 92
Pitch: 59, Start: 168.04, End: 168.50, Velocity: 92
Pitch: 58, Start: 168.50, End: 169.43, Velocity: 92
Pitch: 59, Start: 169.43, End: 169.89, Velocity: 92
Pitch: 61, Start: 169.89, End: 171.27, Velocity: 92
Pitch: 59, Start: 171.27, End: 171.73, Velocity: 92
Pitch: 61, Start: 171.73, End: 172.20, Velocity: 92
Pitch: 62, Start: 172.20, End: 172.66, Velocity: 92
Pitch: 61, Start: 172.66, End: 173.12, Velocity: 92
Pitch: 59, Start: 173.12, End: 173.58, Velocity: 92
Pitch: 61, Start: 173.58, End: 174.04, Velocity: 92
Pitch: 62, Start: 174.04, End: 174.97, Velocity: 92
Pitch: 61, Start: 174.97, End: 175.43, Velocity: 92
Pitch: 59, Start: 175.43, End: 176.35, Velocity: 92
Pitch: 54, Start: 176.35, End: 176.81, Velocity: 92
Pitch: 55, Start: 176.81, End: 177.73, Velocity: 92
Pitch: 54, Start: 177.73, End: 178.20, Velocity: 92
Pitch: 52, Start: 178.20, End: 178.66, Velocity: 92
Pitch: 57, Start: 178.66, End: 179.58, Velocity: 92
```

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Pitch: 50, Start: 179.58, End: 180.04, Velocity: 92
Pitch: 62, Start: 180.04, End: 180.96, Velocity: 92
Pitch: 57, Start: 181.43, End: 181.89, Velocity: 92
Pitch: 59, Start: 181.89, End: 182.35, Velocity: 92
Pitch: 61, Start: 182.35, End: 183.27, Velocity: 92
Pitch: 63, Start: 183.27, End: 183.73, Velocity: 92
Pitch: 64, Start: 183.73, End: 185.12, Velocity: 92
Pitch: 62, Start: 185.12, End: 185.58, Velocity: 92
Pitch: 64, Start: 185.58, End: 186.04, Velocity: 92
Pitch: 66, Start: 186.04, End: 186.50, Velocity: 92
Pitch: 64, Start: 186.50, End: 186.96, Velocity: 92
Pitch: 62, Start: 186.96, End: 187.43, Velocity: 92
Pitch: 61, Start: 187.43, End: 187.89, Velocity: 92
Pitch: 54, Start: 187.89, End: 188.81, Velocity: 92
Pitch: 59, Start: 188.81, End: 189.27, Velocity: 92
Pitch: 55, Start: 189.27, End: 189.73, Velocity: 92
Pitch: 59, Start: 189.73, End: 190.20, Velocity: 92
Pitch: 54, Start: 190.20, End: 191.12, Velocity: 92
Pitch: 61, Start: 191.12, End: 191.58, Velocity: 92
Pitch: 59, Start: 191.58, End: 192.04, Velocity: 92
Pitch: 64, Start: 192.04, End: 192.50, Velocity: 92
Pitch: 62, Start: 192.50, End: 192.96, Velocity: 92
Pitch: 61, Start: 192.96, End: 193.43, Velocity: 92
Pitch: 62, Start: 193.43, End: 193.89, Velocity: 92
Pitch: 62, Start: 193.89, End: 194.35, Velocity: 92
Pitch: 64, Start: 194.35, End: 194.81, Velocity: 92
Pitch: 66, Start: 194.81, End: 195.27, Velocity: 92
Pitch: 64, Start: 195.27, End: 195.73, Velocity: 92
Pitch: 62, Start: 195.73, End: 196.20, Velocity: 92
Pitch: 61, Start: 196.20, End: 196.66, Velocity: 92
Pitch: 61, Start: 196.66, End: 197.12, Velocity: 92
Pitch: 63, Start: 197.12, End: 197.58, Velocity: 92
Pitch: 64, Start: 197.58, End: 198.50, Velocity: 92
Pitch: 66, Start: 198.50, End: 198.96, Velocity: 92
Pitch: 67, Start: 198.96, End: 199.43, Velocity: 92
Pitch: 66, Start: 199.43, End: 199.89, Velocity: 92
Pitch: 64, Start: 199.89, End: 200.35, Velocity: 92
Pitch: 62, Start: 200.35, End: 200.81, Velocity: 92
Pitch: 59, Start: 200.81, End: 201.27, Velocity: 92
Pitch: 54, Start: 201.27, End: 201.73, Velocity: 92
Pitch: 52, Start: 201.73, End: 202.20, Velocity: 92
Pitch: 57, Start: 202.20, End: 202.66, Velocity: 92
Pitch: 69, Start: 202.66, End: 203.12, Velocity: 92
Pitch: 62, Start: 203.12, End: 203.58, Velocity: 92
Pitch: 66, Start: 203.58, End: 204.04, Velocity: 92
Pitch: 67, Start: 204.04, End: 204.50, Velocity: 92
Pitch: 61, Start: 204.50, End: 204.96, Velocity: 92
Pitch: 64, Start: 204.96, End: 205.43, Velocity: 92
```

```
Pitch: 66, Start: 205.43, End: 205.89, Velocity: 92
Pitch: 59, Start: 205.89, End: 206.35, Velocity: 92
Pitch: 62, Start: 206.35, End: 206.81, Velocity: 92
Pitch: 64, Start: 206.81, End: 207.27, Velocity: 92
Pitch: 57, Start: 207.27, End: 207.73, Velocity: 92
Pitch: 61, Start: 207.73, End: 208.20, Velocity: 92
Pitch: 62, Start: 208.20, End: 208.66, Velocity: 92
Pitch: 55, Start: 208.66, End: 209.58, Velocity: 92
Pitch: 59, Start: 209.58, End: 210.04, Velocity: 92
Pitch: 61, Start: 210.04, End: 210.96, Velocity: 92
Pitch: 59, Start: 210.96, End: 211.43, Velocity: 92
Pitch: 59, Start: 211.43, End: 215.58, Velocity: 92
Pitch: 58, Start: 215.58, End: 216.50, Velocity: 92
Pitch: 59, Start: 216.50, End: 217.89, Velocity: 92
Pitch: 58, Start: 217.89, End: 218.35, Velocity: 92
Pitch: 59, Start: 218.35, End: 219.73, Velocity: 92
Pitch: 64, Start: 219.73, End: 220.19, Velocity: 92
Pitch: 61, Start: 220.19, End: 221.12, Velocity: 92
Pitch: 63, Start: 221.12, End: 221.58, Velocity: 92
Pitch: 59, Start: 227.12, End: 227.58, Velocity: 92
Pitch: 57, Start: 227.58, End: 228.04, Velocity: 92
Pitch: 55, Start: 228.04, End: 228.50, Velocity: 92
Pitch: 54, Start: 228.50, End: 228.96, Velocity: 92
Pitch: 52, Start: 228.96, End: 229.43, Velocity: 92
Pitch: 51, Start: 229.43, End: 230.81, Velocity: 92
Pitch: 52, Start: 230.81, End: 231.27, Velocity: 92
Pitch: 54, Start: 231.27, End: 231.73, Velocity: 92
Pitch: 55, Start: 231.73, End: 232.19, Velocity: 92
Pitch: 57, Start: 232.19, End: 232.66, Velocity: 92
Pitch: 55, Start: 232.66, End: 233.58, Velocity: 92
Pitch: 54, Start: 233.58, End: 234.96, Velocity: 92
Pitch: 59, Start: 234.96, End: 237.79, Velocity: 92
Pitch: 64, Start: 237.79, End: 238.04, Velocity: 92
Pitch: 62, Start: 238.04, End: 238.29, Velocity: 92
Pitch: 61, Start: 238.29, End: 239.55, Velocity: 92
Pitch: 59, Start: 239.55, End: 242.55, Velocity: 92
Instrument: Acoustic Grand Piano
Pitch: 59, Start: 0.00, End: 0.86, Velocity: 102
Pitch: 59, Start: 3.43, End: 4.29, Velocity: 102
Pitch: 61, Start: 5.14, End: 6.00, Velocity: 102
Pitch: 59, Start: 7.29, End: 7.50, Velocity: 102
Pitch: 58, Start: 7.50, End: 7.71, Velocity: 102
Pitch: 59, Start: 7.71, End: 10.29, Velocity: 102
Pitch: 55, Start: 10.29, End: 12.86, Velocity: 102
Pitch: 56, Start: 12.86, End: 13.71, Velocity: 102
Pitch: 57, Start: 13.71, End: 15.86, Velocity: 102
Pitch: 57, Start: 15.86, End: 16.07, Velocity: 102
Pitch: 56, Start: 16.07, End: 16.29, Velocity: 102
```

```
Pitch: 54, Start: 16.29, End: 16.71, Velocity: 102
Pitch: 56, Start: 16.71, End: 16.93, Velocity: 102
Pitch: 57, Start: 16.93, End: 17.14, Velocity: 102
Pitch: 59, Start: 17.14, End: 19.71, Velocity: 102
Pitch: 56, Start: 20.14, End: 20.36, Velocity: 102
Pitch: 54, Start: 20.36, End: 20.57, Velocity: 102
Pitch: 53, Start: 20.57, End: 22.29, Velocity: 102
Pitch: 54, Start: 22.29, End: 24.00, Velocity: 102
Pitch: 59, Start: 24.00, End: 25.71, Velocity: 102
Pitch: 61, Start: 25.71, End: 26.57, Velocity: 102
Pitch: 61, Start: 28.29, End: 29.14, Velocity: 102
Pitch: 54, Start: 29.14, End: 30.86, Velocity: 102
Pitch: 55, Start: 30.86, End: 31.71, Velocity: 102
Pitch: 52, Start: 31.71, End: 32.57, Velocity: 102
Pitch: 45, Start: 32.57, End: 36.00, Velocity: 102
Pitch: 47, Start: 36.00, End: 37.71, Velocity: 102
Pitch: 48, Start: 37.71, End: 38.57, Velocity: 102
Pitch: 49, Start: 38.57, End: 39.43, Velocity: 102
Pitch: 50, Start: 39.43, End: 40.29, Velocity: 102
Pitch: 47, Start: 40.29, End: 41.14, Velocity: 102
Pitch: 52, Start: 41.14, End: 42.86, Velocity: 102
Pitch: 52, Start: 42.86, End: 43.71, Velocity: 102
Pitch: 53, Start: 43.71, End: 44.57, Velocity: 102
Pitch: 54, Start: 44.57, End: 45.43, Velocity: 102
Pitch: 46, Start: 45.43, End: 46.29, Velocity: 102
Pitch: 47, Start: 46.29, End: 47.14, Velocity: 102
Pitch: 54, Start: 47.14, End: 48.00, Velocity: 102
Pitch: 52, Start: 48.00, End: 49.71, Velocity: 102
Pitch: 40, Start: 49.71, End: 59.14, Velocity: 102
Pitch: 37, Start: 63.43, End: 64.35, Velocity: 102
Pitch: 37, Start: 64.81, End: 65.27, Velocity: 102
Pitch: 38, Start: 65.27, End: 66.20, Velocity: 102
Pitch: 40, Start: 66.20, End: 67.12, Velocity: 102
Pitch: 42, Start: 67.12, End: 80.04, Velocity: 102
Pitch: 47, Start: 80.04, End: 84.04, Velocity: 102
Pitch: 54, Start: 101.12, End: 101.58, Velocity: 102
Pitch: 56, Start: 101.58, End: 102.04, Velocity: 102
Pitch: 58, Start: 102.04, End: 102.50, Velocity: 102
Pitch: 56, Start: 102.50, End: 102.97, Velocity: 102
Pitch: 54, Start: 102.97, End: 103.43, Velocity: 102
Pitch: 59, Start: 103.43, End: 103.89, Velocity: 102
Pitch: 57, Start: 103.89, End: 104.35, Velocity: 102
Pitch: 55, Start: 104.35, End: 104.81, Velocity: 102
Pitch: 54, Start: 104.81, End: 106.20, Velocity: 102
Pitch: 55, Start: 106.20, End: 107.58, Velocity: 102
Pitch: 57, Start: 107.58, End: 110.35, Velocity: 102
Pitch: 50, Start: 110.35, End: 111.74, Velocity: 102
Pitch: 55, Start: 112.20, End: 112.66, Velocity: 102
```

```
Pitch: 54, Start: 112.66, End: 113.12, Velocity: 102
Pitch: 52, Start: 113.12, End: 113.58, Velocity: 102
Pitch: 54, Start: 113.58, End: 114.04, Velocity: 102
Pitch: 55, Start: 114.04, End: 114.50, Velocity: 102
Pitch: 57, Start: 114.50, End: 115.43, Velocity: 102
Pitch: 58, Start: 115.43, End: 115.89, Velocity: 102
Pitch: 59, Start: 115.89, End: 117.27, Velocity: 102
Pitch: 59, Start: 123.27, End: 123.74, Velocity: 102
Pitch: 57, Start: 123.74, End: 124.20, Velocity: 102
Pitch: 55, Start: 124.20, End: 125.12, Velocity: 102
Pitch: 54, Start: 125.12, End: 125.58, Velocity: 102
Pitch: 52, Start: 125.58, End: 126.04, Velocity: 102
Pitch: 54, Start: 126.04, End: 126.97, Velocity: 102
Pitch: 59, Start: 126.97, End: 127.89, Velocity: 102
Pitch: 52, Start: 127.89, End: 128.35, Velocity: 102
Pitch: 57, Start: 128.35, End: 132.50, Velocity: 102
Pitch: 57, Start: 132.97, End: 133.43, Velocity: 102
Pitch: 59, Start: 133.43, End: 133.89, Velocity: 102
Pitch: 61, Start: 133.89, End: 134.81, Velocity: 102
Pitch: 62, Start: 134.81, End: 135.27, Velocity: 102
Pitch: 64, Start: 135.27, End: 135.73, Velocity: 102
Pitch: 62, Start: 135.73, End: 136.20, Velocity: 102
Pitch: 61, Start: 136.20, End: 136.66, Velocity: 102
Pitch: 59, Start: 136.66, End: 138.04, Velocity: 102
Pitch: 50, Start: 144.04, End: 144.50, Velocity: 102
Pitch: 47, Start: 144.50, End: 144.97, Velocity: 102
Pitch: 52, Start: 144.97, End: 145.43, Velocity: 102
Pitch: 54, Start: 145.43, End: 145.89, Velocity: 102
Pitch: 49, Start: 145.89, End: 146.35, Velocity: 102
Pitch: 54, Start: 146.35, End: 146.81, Velocity: 102
Pitch: 52, Start: 146.81, End: 147.27, Velocity: 102
Pitch: 50, Start: 147.27, End: 147.73, Velocity: 102
Pitch: 52, Start: 147.73, End: 148.20, Velocity: 102
Pitch: 54, Start: 148.20, End: 149.12, Velocity: 102
Pitch: 47, Start: 149.12, End: 150.50, Velocity: 102
Pitch: 42, Start: 160.66, End: 161.12, Velocity: 102
Pitch: 44, Start: 161.12, End: 161.58, Velocity: 102
Pitch: 46, Start: 161.58, End: 162.04, Velocity: 102
Pitch: 44, Start: 162.04, End: 162.50, Velocity: 102
Pitch: 46, Start: 162.50, End: 162.97, Velocity: 102
Pitch: 47, Start: 162.97, End: 163.89, Velocity: 102
Pitch: 49, Start: 163.89, End: 164.35, Velocity: 102
Pitch: 51, Start: 164.35, End: 164.81, Velocity: 102
Pitch: 49, Start: 164.81, End: 165.27, Velocity: 102
Pitch: 51, Start: 165.27, End: 165.73, Velocity: 102
Pitch: 52, Start: 165.73, End: 167.58, Velocity: 102
Pitch: 40, Start: 167.58, End: 168.04, Velocity: 102
Pitch: 52, Start: 168.04, End: 168.50, Velocity: 102
```

```
Pitch: 54, Start: 168.50, End: 170.35, Velocity: 102
Pitch: 56, Start: 170.35, End: 170.81, Velocity: 102
Pitch: 58, Start: 170.81, End: 171.27, Velocity: 102
Pitch: 59, Start: 171.27, End: 171.73, Velocity: 102
Pitch: 38, Start: 180.04, End: 180.50, Velocity: 102
Pitch: 40, Start: 180.50, End: 180.96, Velocity: 102
Pitch: 42, Start: 180.96, End: 181.43, Velocity: 102
Pitch: 54, Start: 181.43, End: 181.89, Velocity: 102
Pitch: 55, Start: 181.89, End: 182.35, Velocity: 102
Pitch: 57, Start: 182.35, End: 182.81, Velocity: 102
Pitch: 55, Start: 182.81, End: 183.27, Velocity: 102
Pitch: 54, Start: 183.27, End: 183.73, Velocity: 102
Pitch: 52, Start: 183.73, End: 184.20, Velocity: 102
Pitch: 55, Start: 184.20, End: 184.66, Velocity: 102
Pitch: 57, Start: 184.66, End: 185.12, Velocity: 102
Pitch: 59, Start: 185.12, End: 186.50, Velocity: 102
Pitch: 52, Start: 186.50, End: 187.43, Velocity: 102
Pitch: 54, Start: 187.43, End: 187.89, Velocity: 102
Pitch: 50, Start: 187.89, End: 188.35, Velocity: 102
Pitch: 49, Start: 188.35, End: 188.81, Velocity: 102
Pitch: 47, Start: 188.81, End: 189.27, Velocity: 102
Pitch: 52, Start: 189.27, End: 190.20, Velocity: 102
Pitch: 54, Start: 190.20, End: 190.66, Velocity: 102
Pitch: 50, Start: 190.66, End: 191.12, Velocity: 102
Pitch: 59, Start: 193.43, End: 193.89, Velocity: 102
Pitch: 57, Start: 193.89, End: 194.35, Velocity: 102
Pitch: 55, Start: 194.35, End: 194.81, Velocity: 102
Pitch: 54, Start: 194.81, End: 195.73, Velocity: 102
Pitch: 55, Start: 195.73, End: 196.20, Velocity: 102
Pitch: 57, Start: 196.20, End: 196.66, Velocity: 102
Pitch: 55, Start: 196.66, End: 197.12, Velocity: 102
Pitch: 54, Start: 197.12, End: 197.58, Velocity: 102
Pitch: 52, Start: 197.58, End: 198.50, Velocity: 102
Pitch: 55, Start: 209.58, End: 210.04, Velocity: 102
Pitch: 54, Start: 210.04, End: 210.50, Velocity: 102
Pitch: 52, Start: 210.50, End: 210.96, Velocity: 102
Pitch: 51, Start: 210.96, End: 211.43, Velocity: 102
Pitch: 52, Start: 211.43, End: 211.89, Velocity: 102
Pitch: 50, Start: 211.89, End: 212.35, Velocity: 102
Pitch: 49, Start: 212.35, End: 212.81, Velocity: 102
Pitch: 50, Start: 212.81, End: 213.27, Velocity: 102
Pitch: 49, Start: 213.27, End: 213.73, Velocity: 102
Pitch: 47, Start: 213.73, End: 214.20, Velocity: 102
Pitch: 55, Start: 214.20, End: 214.66, Velocity: 102
Pitch: 54, Start: 214.66, End: 215.12, Velocity: 102
Pitch: 52, Start: 215.12, End: 215.58, Velocity: 102
Pitch: 54, Start: 215.58, End: 216.04, Velocity: 102
Pitch: 52, Start: 216.04, End: 216.50, Velocity: 102
```

```
Pitch: 50, Start: 216.50, End: 216.96, Velocity: 102
Pitch: 49, Start: 216.96, End: 217.43, Velocity: 102
Pitch: 54, Start: 217.43, End: 218.35, Velocity: 102
Pitch: 47, Start: 218.35, End: 218.81, Velocity: 102
Pitch: 49, Start: 218.81, End: 219.27, Velocity: 102
Pitch: 50, Start: 219.27, End: 219.73, Velocity: 102
Pitch: 52, Start: 219.73, End: 220.19, Velocity: 102
Pitch: 54, Start: 220.19, End: 221.12, Velocity: 102
Pitch: 59, Start: 221.12, End: 226.66, Velocity: 102
Pitch: 59, Start: 229.89, End: 230.35, Velocity: 102
Pitch: 57, Start: 230.35, End: 230.81, Velocity: 102
Pitch: 55, Start: 230.81, End: 231.27, Velocity: 102
Pitch: 54, Start: 231.27, End: 231.73, Velocity: 102
Pitch: 52, Start: 231.73, End: 232.19, Velocity: 102
Pitch: 51, Start: 232.19, End: 232.66, Velocity: 102
Pitch: 52, Start: 232.66, End: 233.58, Velocity: 102
Pitch: 47, Start: 233.58, End: 234.04, Velocity: 102
Pitch: 47, Start: 234.04, End: 234.50, Velocity: 102
Pitch: 45, Start: 234.50, End: 234.96, Velocity: 102
Pitch: 43, Start: 234.96, End: 235.43, Velocity: 102
Pitch: 55, Start: 235.43, End: 235.89, Velocity: 102
Pitch: 54, Start: 235.89, End: 236.35, Velocity: 102
Pitch: 52, Start: 236.35, End: 238.29, Velocity: 102
Pitch: 54, Start: 238.29, End: 239.55, Velocity: 102
Pitch: 47, Start: 239.55, End: 242.55, Velocity: 102
```

4.2.3   Piano roll plot

```python
def plot_piano_roll(midi_path):
    try:
        pm = pretty_midi.PrettyMIDI(midi_path)
        roll = pm.get_piano_roll(fs=100)  # 100 frames per second

        plt.figure(figsize=(12, 6))
        plt.imshow(roll, aspect='auto', origin='lower',
                   cmap='inferno', interpolation='nearest')
        plt.xlabel('Time (frames)')
        plt.ylabel('MIDI Pitch')
        plt.title(f"Piano Roll - {os.path.basename(midi_path)}")
        plt.colorbar(label='Velocity')
        plt.show()
    except Exception as e:
        print(f"[WARN] Could not plot piano roll for {midi_path}: {e}")

# --- Integration into EDA ---
for composer in midi_files_by_composer.keys():
    if midi_files_by_composer[composer]:
```

```
        sample_file = random.choice(midi_files_by_composer[composer])
        print(f"\n {composer} - Sample Piano Roll: {os.path.
↪basename(sample_file)}")
        plot_piano_roll(sample_file)
```

Bach - Sample Piano Roll: Bwv1069 Orchestral suite n4 Menuet.mid

Piano Roll - Bwv1069 Orchestral suite n4 Menuet.mid
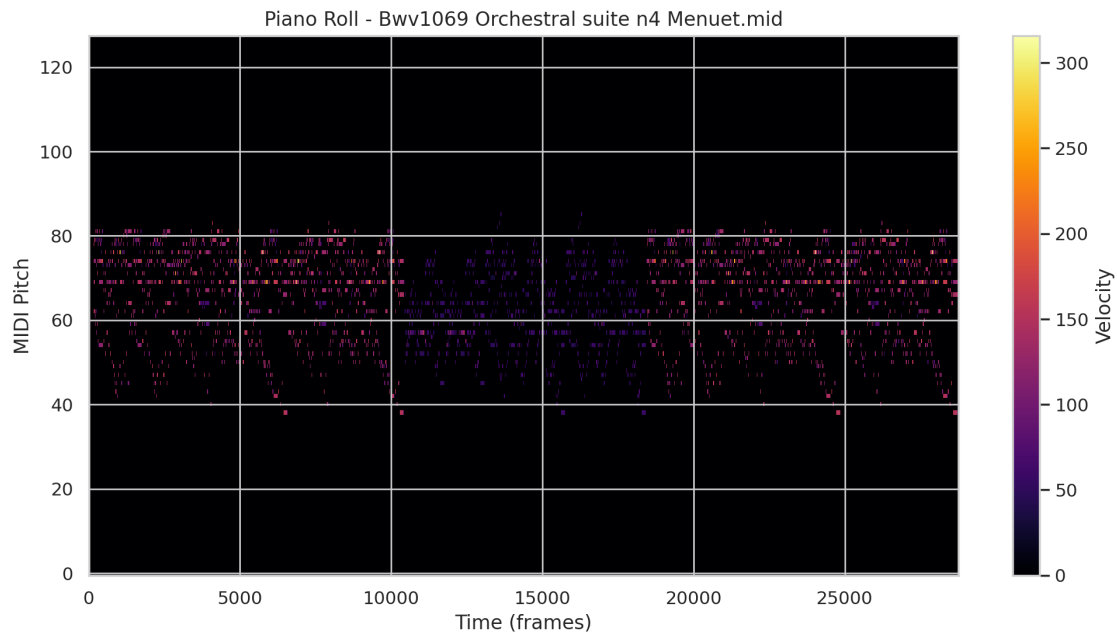
  Beethoven - Sample Piano Roll: Lieder op48 n4 ''Die Ehre Gottes Aus Der
Natur''.mid

Piano Roll - Lieder op48 n4 ''Die Ehre Gottes Aus Der Natur''.mid
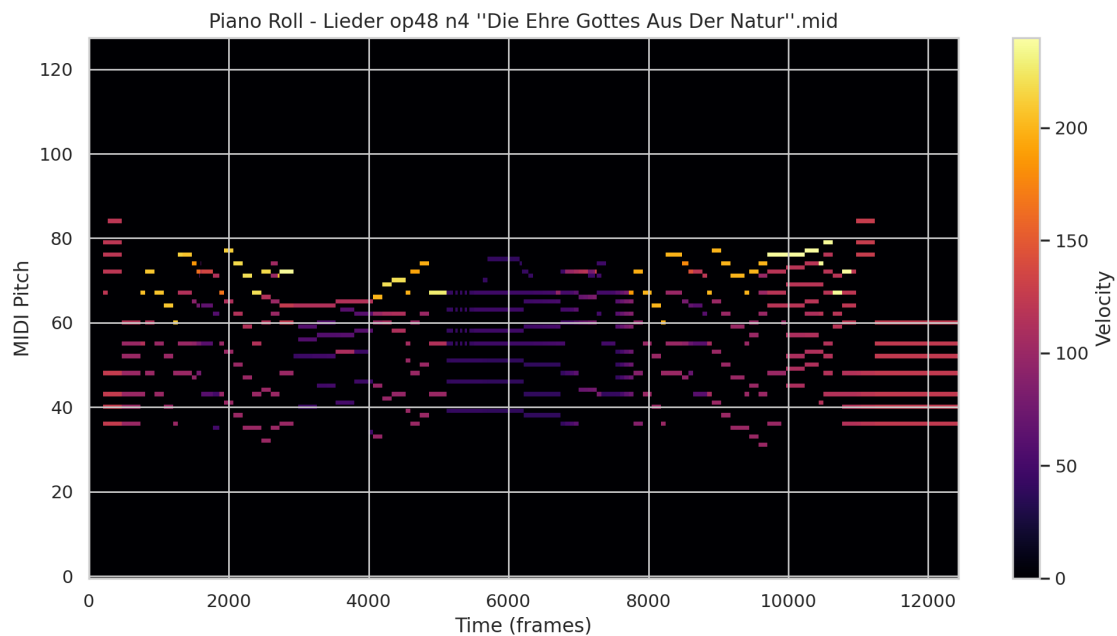
Chopin - Sample Piano Roll: Mazurka op67 n3 Drchew.mid

Piano Roll - Mazurka op67 n3 Drchew.mid
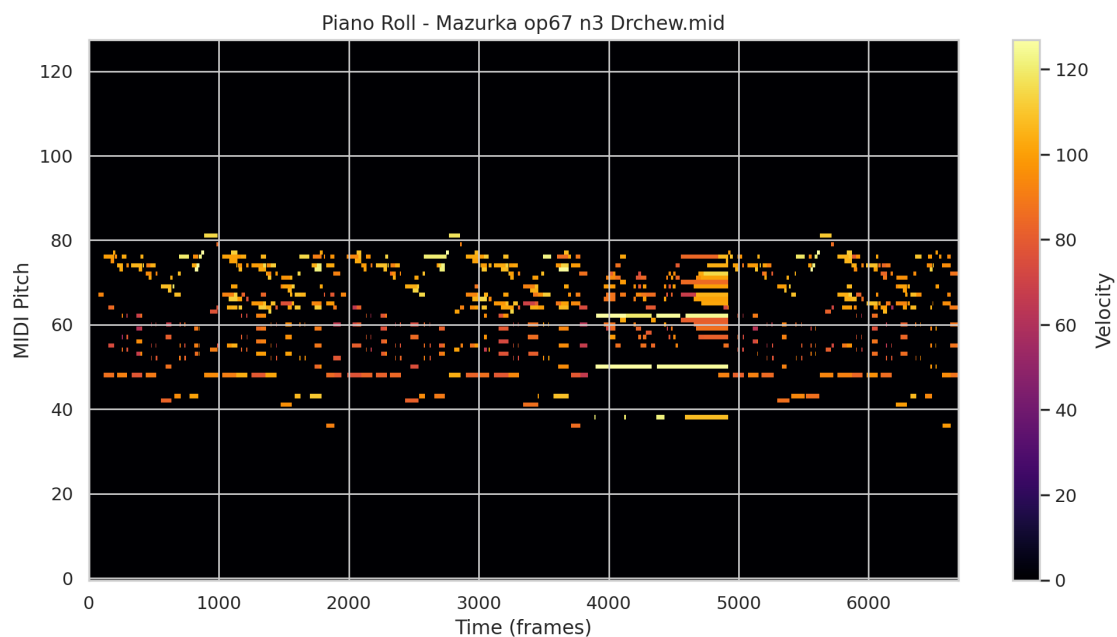
Mozart - Sample Piano Roll: Symphony n36 K425 1mov ''Linz''.mid

Piano Roll - Symphony n36 K425 1mov ''Linz''.mid
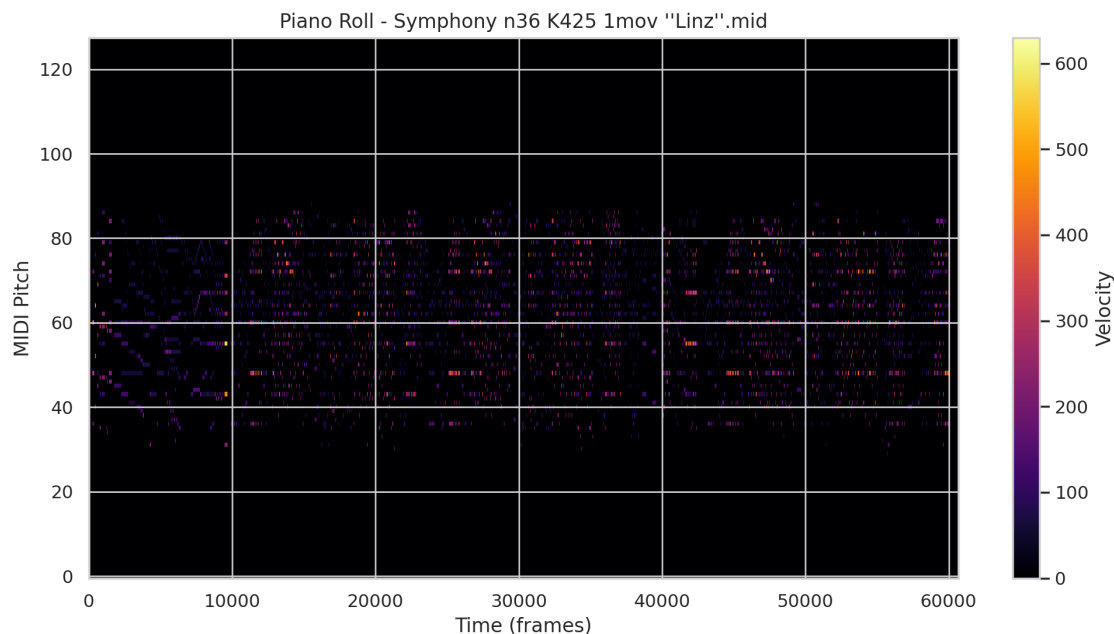
5   Feature Extraction

5.1   MIDI Feature Extraction Notes

I used `music21` for parsing and feature extraction. It's designed for symbolic music analysis pipelines but it can be a bit slower when working with larger collections - using their parallel processing is a great option.

5.1.1   Performance Notes

- **Parallelism**: Enabled using `concurrent.futures` to help speed up the multi-file extraction.
- **CPU Use**: dependening on the amount of usable RAM try adjusting `max_workers` i.e. `min(6, os.cpu_count()-1)` to balance speed with memory.
- **Large Files**: Even with orchestral MIDIs or pieces that have higher resolution can take a few extra seconds per files when using music21 for parsing.

5.1.2   Extracted Features Overview

Feature	Description	Why It Matters for Classification
notes	List of note pitches (encoded as MIDI numbers).	Core melodic content, as composer styles often diverge in their pitch usage.

Feature	Description	Why It Matters for Classification
chords	List of chord symbols (root + quality).	Harmonic vocabulary - composers tend to favor certain chord progressions.
tempo	Average beats-per-minute derived from MIDI tempo events.	Represents pacing - for example, Romantic composers vs Classical composers often tend towards different average tempos.
time_signatures	Detected time signature(s)(e.g., 4/4, 3/4).	Temporal structure - different repetitions; e.g., Waltz (3/4) vs March (2/4).
rhythm_iois	Inter-onset intervals between the consecutive notes.	Represents the variation and complexity of rhythms.
key_signatures	Tonal key(s) detected (e.g., C major, A minor).	Tonal center - tonal preferences often define composers.
instruments	Instruments used in the piece (if paid attention to and encoded).	Orchestration styles; even for piano works, encoding can still be useful.
articulations	Aggregated articulation markings (staccato, legato, accent, etc.).	Expressive detail - composers differ in articulation density.
dynamics	Relative loudness/volume markings (p, mf, f, etc.).	Expressive quality dynamics - may function as a stylistic fingerprint in scores by a composer.
polyphony_series	Count of notes per time step.	The most useful number, effectively counts texture density at a point in time; polyphonic writing is far more complex.
polyphony_avg	Average simultaneous notes.	Capture standard texture.
polyphony_max	Maximum simultaneous notes.	Capture dense climaxes.

5.1.3 Quantization

- **Polyphony** is calculated after the notes are quantized to a grid (`quantize_step_q` $= 0.25$ quarter notes by default).
- A smaller grid increases polyphony resolution (but increases computation time).

5.1.4 Limits

- **Articulations/Dynamics**: Only extracted if present explicitly in the MIDI or score; most MIDI files do not include these.
- **Instrument Metadata**: May not be available — can be `None` for some files.
- **Tempo Changes**: Only the average tempo is reported; in order of expressive timing, a tempo curve must be evaluated.

5.1.5 Next Steps After Extraction

1. **Look over results** — ensure that the all features were extracted correctly (`NaN` handling).
2. **Save** the extracted dataframe as `.pkl` or `.parquet`.
3. **Feature engineering** — explicate symbolic features into numeric vectors (piano roll, chroma, event sequences, statistical summaries).
4. **Model Training** — use the features processed for the classification model.

```python
def extract_features_from_midi(midi_path, quantize_step_q=0.25):
    """
    Extract features from a single MIDI file using music21.
    quantize_step_q: quantization step in quarter lengths used to compute␣
    ↪polyphony stats.
    Returns dict with 'ok' boolean and either 'result' or 'error'.
    """
    try:
        score = converter.parse(midi_path)

        # -- Notes --
        note_list = []
        for n in score.recurse().notes:
            if isinstance(n, note.Note):
                vol = None
                # music21 may store velocity under volume.velocity
                try:
                    vol = int(n.volume.velocity) if n.volume and n.volume.
    ↪velocity is not None else None
                except Exception:
                    vol = None
                note_list.append({
                    "offset_q": float(n.offset),
                    "pitch": int(n.pitch.midi),
                    "duration_q": float(n.quarterLength),
                    "velocity": vol,
                    "articulations": [type(a).__name__ for a in getattr(n,␣
    ↪"articulations", [])],
                    "expressions": [type(e).__name__ for e in getattr(n,␣
    ↪"expressions", [])]
                })
```

```python
        # -- Chords --
        chord_list = []
        for c in score.recurse().getElementsByClass(chord.Chord):
            chord_list.append({
                "offset_q": float(c.offset),
                "pitches": [int(p.midi) for p in c.pitches],
                "duration_q": float(c.quarterLength)
            })

        # -- Tempo --
        tempo_list = []
        for t in score.recurse().getElementsByClass(tempo.MetronomeMark):
            tempo_list.append({"offset_q": float(t.offset), "bpm": float(t.
↪number)})

        # -- Time Signatures --
        ts_list = []
        for ts in score.recurse().getElementsByClass(meter.TimeSignature):
            ts_list.append({"offset_q": float(ts.offset), "num": ts.numerator,␣
↪"den": ts.denominator})

        # -- Rhythm (inter-onset intervals) --
        iois = []
        sorted_notes = sorted(note_list, key=lambda x: x["offset_q"])
        for i in range(1, len(sorted_notes)):
            iois.append({"offset_q": sorted_notes[i]["offset_q"],
                         "ioi_q": sorted_notes[i]["offset_q"] -␣
↪sorted_notes[i-1]["offset_q"]})

        # -- Key signatures --
        key_list = []
        for k in score.recurse().getElementsByClass(key.KeySignature):
            key_list.append({"offset_q": float(k.offset), "sharps": int(k.
↪sharps)})

        # -- Instruments --
        instruments = []
        # Use partitionByInstrument if there are parts; fallback to searching␣
↪Instrument objects
        try:
            parts = score.parts.stream()
            for p in parts:
                inst = p.getInstrument(returnDefault=False)
                if inst is not None:
                    instruments.append({
                        "part_id": p.id if hasattr(p, "id") else None,
```

```python
                    "instrument_name": inst.instrumentName if hasattr(inst,
↪"instrumentName") else type(inst).__name__,
                    "midi_program": getattr(inst, "midiProgram", None)
                })
        except Exception:
            # fallback: search for instrument objects in whole score
            for inst in score.recurse().getElementsByClass(instrument.
↪Instrument):
                instruments.append({
                    "instrument_name": inst.instrumentName if hasattr(inst,
↪"instrumentName") else type(inst).__name__,
                    "midi_program": getattr(inst, "midiProgram", None)
                })

        # Normalize instrument list (dedupe)
        # Keep only name and midi_program
        instruments_norm = []
        seen = set()
        for inst in instruments:
            name = inst.get("instrument_name") or str(inst.get("midi_program"))
            prog = inst.get("midi_program")
            key_inst = (name, prog)
            if key_inst not in seen:
                seen.add(key_inst)
                instruments_norm.append({"instrument_name": name,
↪"midi_program": prog})

        # -- Articulations & dynamics summary --
        articulation_counts = {
            "staccato": 0,
            "accent": 0,
            "tenuto": 0,
            "staccatissimo": 0,
            "fermata": 0,
            "other_artic": 0,
            "has_dynamic": 0  # presence of any dynamic marking in score
        }

        # Count articulations per note
        for n in note_list:
            arts = n.get("articulations", []) or []
            for a in arts:
                a_low = a.lower()
                if "staccato" in a_low:
                    articulation_counts["staccato"] += 1
                elif "staccatissimo" in a_low:
                    articulation_counts["staccatissimo"] += 1
```

```python
            elif "accent" in a_low:
                articulation_counts["accent"] += 1
            elif "tenuto" in a_low:
                articulation_counts["tenuto"] += 1
            elif "fermata" in a_low:
                articulation_counts["fermata"] += 1
            else:
                articulation_counts["other_artic"] += 1

    # Dynamics: presence of dynamics objects in the score
    dyns = list(score.recurse().getElementsByClass(dynamics.Dynamic))
    if len(dyns) > 0:
        articulation_counts["has_dynamic"] = 1

    # -- Polyphony: compute average & max simultaneous notes using
↪quantized grid --
    polyphony_stats = {"poly_avg": 0.0, "poly_max": 0}
    if note_list:
        # collect intervals in quarter lengths
        intervals = [(n["offset_q"], n["offset_q"] + max(n["duration_q"],
↪1e-6)) for n in note_list]
        min_t = min(s for s, e in intervals)
        max_t = max(e for s, e in intervals)
        # create quantized grid
        step = float(quantize_step_q)
        if step <= 0:
            step = 0.25
        times = np.arange(min_t, max_t + step/2.0, step)
        counts = []
        for t in times:
            # count intervals that include time t
            cnt = sum(1 for (s, e) in intervals if (s <= t < e))
            counts.append(cnt)
        polyphony_stats["poly_avg"] = float(np.mean(counts)) if counts else
↪0.0
        polyphony_stats["poly_max"] = int(np.max(counts)) if counts else 0

    # Build lightweight numeric summaries for easy EDA
    summary = {
        "n_notes": len(note_list),
        "n_chords": len(chord_list),
        "n_tempo_events": len(tempo_list),
        "n_time_sig": len(ts_list),
        "n_key_signatures": len(key_list),
        "instruments": instruments_norm,
        "articulation_counts": articulation_counts,
        "poly_avg": polyphony_stats["poly_avg"],
```

```python
                "poly_max": polyphony_stats["poly_max"]
            }

            result = {
                "file": os.path.basename(midi_path),
                "path": midi_path,
                "notes": note_list,
                "chords": chord_list,
                "tempo": tempo_list,
                "time_signatures": ts_list,
                "rhythm_iois": iois,
                "key_signatures": key_list,
                "instruments": instruments_norm,
                "articulation_counts": articulation_counts,
                "poly_avg": polyphony_stats["poly_avg"],
                "poly_max": polyphony_stats["poly_max"],
                "summary": summary
            }

            return {"ok": True, "result": result}
    except Exception as e:
        # Return error info (traceback for debugging)
        tb = traceback.format_exc()
        return {"ok": False, "error": str(e), "traceback": tb, "file":
    midi_path}
```

```python
def extract_features_for_file_list(file_list, max_workers=None,
    quantize_step_q=0.25):
    """
    Extract features for a list of midi file paths in parallel.
    Returns list of dict results (successful ones: result dict; failed ones:
    error dict).
    """
    if max_workers is None:
        max_workers = max(1, multiprocessing.cpu_count() - 1)

    results = []
    with ProcessPoolExecutor(max_workers=max_workers) as exe:
        # Submit tasks
        futures = {exe.submit(extract_features_from_midi, path,
    quantize_step_q): path for path in file_list}
        for fut in tqdm(as_completed(futures), total=len(futures), desc="Files
    processed"):
            try:
                res = fut.result()
            except Exception as e:
```

```
                # This shouldn't often happen because extract function catches
↪exceptions, but handle anyway
                res = {"ok": False, "error": f"executor error: {e}", "file":
↪futures[fut]}
            results.append(res)
    return results
```

```python
def process_all_composers_parallel(base_dir, composers=None, max_workers=None,
↪quantize_step_q=0.25):
    """
    Process all midi files for the given composers found under base_dir/
↪<Composer> folders.
    Returns a DataFrame with columns: composer, file, path, features (dict),
↪plus summary columns.
    """
    if composers is None:
        composers = ['Bach', 'Beethoven', 'Chopin', 'Mozart']

    all_rows = []
    for composer in composers:
        folder = os.path.join(base_dir, composer)
        midi_paths = glob.glob(os.path.join(folder, '**', '*.mid'),
↪recursive=True) + \
                     glob.glob(os.path.join(folder, '**', '*.midi'),
↪recursive=True)
        midi_paths = sorted(set(midi_paths))
        print(f"[INFO] {composer}: {len(midi_paths)} files found.")

        if not midi_paths:
            continue

        # Extract features in parallel for this composer's files
        res_list = extract_features_for_file_list(midi_paths,
↪max_workers=max_workers, quantize_step_q=quantize_step_q)

        # Convert results to rows
        for r in res_list:
            if r.get("ok"):
                feat = r["result"]
                row = {
                    "composer": composer,
                    "file": feat["file"],
                    "path": feat["path"],
                    "features": feat,
                    # quick-access summaries
                    "n_notes": feat["summary"]["n_notes"],
```

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```python
                        "n_chords": feat["summary"]["n_chords"],
                        "n_tempo_events": feat["summary"]["n_tempo_events"],
                        "n_time_signatures": feat["summary"]["n_time_sig"],
                        "n_key_signatures": feat["summary"]["n_key_signatures"],
                        "poly_avg": feat["summary"]["poly_avg"],
                        "poly_max": feat["summary"]["poly_max"],
                        "articulation_counts":␣
    ↪feat["summary"]["articulation_counts"],
                        "instruments": feat["summary"]["instruments"]
                    }
                else:
                    row = {
                        "composer": composer,
                        "file": os.path.basename(r.get("file") or r.get("file",␣
    ↪"unknown")),
                        "path": r.get("file"),
                        "features": None,
                        "error": r.get("error"),
                        "traceback": r.get("traceback", None)
                    }
                all_rows.append(row)

        df = pd.DataFrame(all_rows)
        return df
```

```python
base_dir = "/kaggle/working/extracted_files"
df_full = process_all_composers_parallel(base_dir,␣
 ↪composers=['Bach','Beethoven','Chopin','Mozart'], max_workers=os.
 ↪cpu_count(), quantize_step_q=0.25)
```

```
[INFO] Bach: 925 files found.

Files processed: 100%|      | 925/925 [12:48<00:00,  1.20it/s]

[INFO] Beethoven: 212 files found.


Files processed: 100%|      | 212/212 [22:05<00:00,  6.25s/it]

[INFO] Chopin: 136 files found.

Files processed: 100%|      | 136/136 [03:48<00:00,  1.68s/it]

[INFO] Mozart: 257 files found.

Files processed: 100%|      | 257/257 [16:37<00:00,  3.88s/it]
```

```python
df_full.head()
```

```
[ ]:    composer          file                                              path  \
    0     Bach   03 Menuet.mid   /kaggle/working/extracted_files/Bach/Bwv ''Lit…
    1     Bach    AveMaria.mid   /kaggle/working/extracted_files/Bach/AveMaria.mid
    2     Bach   01 Menuet.mid   /kaggle/working/extracted_files/Bach/Bwv ''Lit…
    3     Bach   02 Menuet.mid   /kaggle/working/extracted_files/Bach/Bwv ''Lit…
    4     Bach   06 Menuet.mid   /kaggle/working/extracted_files/Bach/Bwv ''Lit…


                                       features  n_notes  n_chords  \
    0  {'file': '03 Menuet.mid', 'path': '/kaggle/wor…      371        23
    1  {'file': 'AveMaria.mid', 'path': '/kaggle/work…      787         2
    2  {'file': '01 Menuet.mid', 'path': '/kaggle/wor…      518         2
    3  {'file': '02 Menuet.mid', 'path': '/kaggle/wor…      396        14
    4  {'file': '06 Menuet.mid', 'path': '/kaggle/wor…      424         8


       n_tempo_events  n_time_signatures  n_key_signatures     poly_avg  poly_max  \
    0              84                  2                 2   103.846154       119
    1               3                  3                 0   106.352941       117
    2             108                  4                 4   114.923077       128
    3             128                  4                 4   102.923077       130
    4              54                  2                 2    88.000000        96


                            articulation_counts instruments
    0  {'staccato': 0, 'accent': 0, 'tenuto': 0, 'sta…          []
    1  {'staccato': 0, 'accent': 0, 'tenuto': 0, 'sta…          []
    2  {'staccato': 0, 'accent': 0, 'tenuto': 0, 'sta…          []
    3  {'staccato': 0, 'accent': 0, 'tenuto': 0, 'sta…          []
    4  {'staccato': 0, 'accent': 0, 'tenuto': 0, 'sta…          []
```

```python
[ ]: print(f"[INFO] Extracted features from {len(df_full)} files (rows)."
         f"Successful: {df_full['features'].notnull().sum()}")
```

```
[INFO] Extracted features from 1530 files (rows).Successful: 1530
```

```python
[ ]: df_full.iloc[0]['features']
```

```
[ ]: {'file': '03 Menuet.mid',
     'path': "/kaggle/working/extracted_files/Bach/Bwv ''Little Notebook for Anna
     Magdalena Bach''/03 Menuet.mid",
      'notes': [{'offset_q': 0.0,
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{'offset_q': 2.0, 'ioi_q': 0.0},
```

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{'offset_q': 2.5, 'ioi_q': 0.0},
{'offset_q': 2.5, 'ioi_q': 0.0},
{'offset_q': 2.5, 'ioi_q': 0.0},

```
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
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     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0},
     {'offset_q': 2.5, 'ioi_q': 0.0}],
    'key_signatures': [{'offset_q': 0.0, 'sharps': -2},
     {'offset_q': 0.0, 'sharps': -2}],
    'instruments': [],
    'articulation_counts': {'staccato': 0,
     'accent': 0,
     'tenuto': 0,
     'staccatissimo': 0,
     'fermata': 0,
     'other_artic': 0,
     'has_dynamic': 0},
    'poly_avg': 103.84615384615384,
    'poly_max': 119,
    'summary': {'n_notes': 371,
     'n_chords': 23,
     'n_tempo_events': 84,
     'n_time_sig': 2,
     'n_key_signatures': 2,
     'instruments': [],
     'articulation_counts': {'staccato': 0,
      'accent': 0,
      'tenuto': 0,
      'staccatissimo': 0,
      'fermata': 0,
      'other_artic': 0,
      'has_dynamic': 0},
     'poly_avg': 103.84615384615384,
     'poly_max': 119}}
```

```python
# save the extracted MIDI file features to disk as a .pkl file
df_full.to_pickle("/kaggle/working/midi_files_feature_extractions.pkl")
```

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```
[ ]:  # Download the .pkl file that has all the feature extraction details
      FileLink(r"midi_files_feature_extractions.pkl")
```

```
[ ]:  /kaggle/working/midi_files_feature_extractions.pkl
```

6 Process the extracted features further in compatible to Deep Learning Models

6.1 Transform the extracted MIDI features to corresponding arrays for each composer

```python
[ ]:  def midi_extracted_features_to_matrix(features, max_notes=168):
          """
          Convert note features from a midi 'features' dict into a 2D numpy array:
          shape: (max_notes, num_features_per_note)
          num_features_per_note could be, e.g., pitch, duration, velocity, offset,␣
      ↪articulation flags.

          Pads with zeros if fewer notes, truncates if more than max_notes.
          """
          notes = features.get("notes", [])
          # Number of features: pitch, duration, velocity, offset + example␣
      ↪articulation counts as flags
          feature_list = []
          for note in notes[:max_notes]:
              pitch = note.get("pitch", 0)
              duration = note.get("duration_q", 0)
              velocity = note.get("velocity", 0) or 0
              offset = note.get("offset_q", 0)
              # simple articulation presence flags
              arts = note.get("articulations", [])
              staccato = 1 if "Staccato" in arts else 0
              accent = 1 if "Accent" in arts else 0
              tenuto = 1 if "Tenuto" in arts else 0
              # you can add more or fewer features here

              feature_list.append([pitch, duration, velocity, offset, staccato,␣
      ↪accent, tenuto])

          # Pad with zeros if needed
          n_features = 7
          matrix = np.zeros((max_notes, n_features))
          for i, feat_row in enumerate(feature_list):
              matrix[i, :len(feat_row)] = feat_row
          return matrix
```

```
[ ]: bach_feature_arrays = np.
      ↪array([midi_extracted_features_to_matrix(row['features']) for idx, row in␣
      ↪df_full[df_full['composer'] == 'Bach'].iterrows()])
     beethoven_feature_arrays = np.
      ↪array([midi_extracted_features_to_matrix(row['features']) for idx, row in␣
      ↪df_full[df_full['composer'] == 'Beethoven'].iterrows()])
     chopin_feature_arrays = np.
      ↪array([midi_extracted_features_to_matrix(row['features']) for idx, row in␣
      ↪df_full[df_full['composer'] == 'Chopin'].iterrows()])
     mozart_feature_arrays = np.
      ↪array([midi_extracted_features_to_matrix(row['features']) for idx, row in␣
      ↪df_full[df_full['composer'] == 'Mozart'].iterrows()])
```

```
[ ]: bach_feature_arrays.shape, beethoven_feature_arrays.shape,␣
      ↪chopin_feature_arrays.shape, mozart_feature_arrays.shape
```

```
[ ]: ((925, 168, 7), (212, 168, 7), (136, 168, 7), (257, 168, 7))
```

6.2 Prepare label lists for each composer

```
[ ]: bach_label_list = ['Bach'] * len(bach_feature_arrays)
     beethoven_label_list = ['Beethoven'] * len(beethoven_feature_arrays)
     chopin_label_list = ['Chopin'] * len(chopin_feature_arrays)
     mozart_label_list = ['Mozart'] * len(mozart_feature_arrays)
```

```
[ ]: print(f"Length of bach_label_list: {len(bach_label_list)}")
     print(f"Length of beethoven_label_list: {len(beethoven_label_list)}")
     print(f"Length of chopin_label_list: {len(chopin_label_list)}")
     print(f"Length of mozart_label_list: {len(mozart_label_list)}")
```

```
Length of bach_label_list: 925
Length of beethoven_label_list: 212
Length of chopin_label_list: 136
Length of mozart_label_list: 257
```

6.3 Padding function with truncation

```
[ ]: def pad_feature_cubes(feature_cubes, max_row_count, pad_entry=0.0):
         """
         Pad or truncate each 2D feature matrix in the 3D array collection to have␣
      ↪shape
         (max_row_count, max_columns), ensuring consistent input shapes.
         """
         padded_cubes = []
         max_column_count = max(matrix.shape[1] for matrix in feature_cubes)
         for matrix in feature_cubes:
             truncated = matrix[:max_row_count, :]  # truncate if too many rows
```

```
        rows, cols = truncated.shape
        temp_padded = np.full((max_row_count, max_column_count), pad_entry,␣
 ↪dtype=float)
        temp_padded[:rows, :cols] = truncated
        padded_cubes.append(temp_padded)
    return np.array(padded_cubes)
```

6.4 Standardize (normalize) features

```python
def standardize_feature_cubes(feature_cubes, max_row_count):
    padded_cubes = pad_feature_cubes(feature_cubes, max_row_count)
    flattened = padded_cubes.reshape(padded_cubes.shape[0], -1)
    scaler = StandardScaler()
    scaled = scaler.fit_transform(flattened)
    reshaped = scaled.reshape(padded_cubes.shape)
    return reshaped
```

6.5 Pad to max width for uniform column count

```python
def pad_to_max_width(feature_set, final_width, pad_fill=0.0):
    output = []
    for matrix in feature_set:
        rows, cols = matrix.shape
        filled = np.full((rows, final_width), pad_fill, dtype=float)
        filled[:, :cols] = matrix
        output.append(filled)
    return np.array(output)
```

```python
# Set desired fixed height and width matching model input_shape
DESIRED_HEIGHT = 168
DESIRED_WIDTH = 85
```

6.6 Standardize features with fixed height

```python
bach_features_standardized = standardize_feature_cubes(bach_feature_arrays,␣
 ↪DESIRED_HEIGHT)
beethoven_features_standardized =␣
 ↪standardize_feature_cubes(beethoven_feature_arrays, DESIRED_HEIGHT)
chopin_features_standardized = standardize_feature_cubes(chopin_feature_arrays,␣
 ↪DESIRED_HEIGHT)
mozart_features_standardized = standardize_feature_cubes(mozart_feature_arrays,␣
 ↪DESIRED_HEIGHT)
```

6.7 Determine max width after standardization

```
max_col_count = max(
    bach_features_standardized.shape[2],
    beethoven_features_standardized.shape[2],
    chopin_features_standardized.shape[2],
    mozart_features_standardized.shape[2]
)
```

6.8 Pad to uniform max width

```
bach_features_final = pad_to_max_width(bach_features_standardized,␣
 ↪max_col_count)
beethoven_features_final = pad_to_max_width(beethoven_features_standardized,␣
 ↪max_col_count)
chopin_features_final = pad_to_max_width(chopin_features_standardized,␣
 ↪max_col_count)
mozart_features_final = pad_to_max_width(mozart_features_standardized,␣
 ↪max_col_count)
```

```
print(f"Bach features shape:      {bach_features_final.shape}")
print(f"Beethoven features shape: {beethoven_features_final.shape}")
print(f"Chopin features shape:    {chopin_features_final.shape}")
print(f"Mozart features shape:    {mozart_features_final.shape}")
```

```
Bach features shape:      (925, 168, 7)
Beethoven features shape: (212, 168, 7)
Chopin features shape:    (136, 168, 7)
Mozart features shape:    (257, 168, 7)
```

6.9 Split the data into training and testing sets

6.9.1 Train/Test split per composer

```
bach_train_X, bach_test_X, bach_train_y, bach_test_y = train_test_split(
    bach_features_final, bach_label_list, test_size=0.2, random_state=42)
beethoven_train_X, beethoven_test_X, beethoven_train_y, beethoven_test_y =␣
 ↪train_test_split(
    beethoven_features_final, beethoven_label_list, test_size=0.2,␣
 ↪random_state=42)
chopin_train_X, chopin_test_X, chopin_train_y, chopin_test_y = train_test_split(
    chopin_features_final, chopin_label_list, test_size=0.2, random_state=42)
mozart_train_X, mozart_test_X, mozart_train_y, mozart_test_y = train_test_split(
    mozart_features_final, mozart_label_list, test_size=0.2, random_state=42)
```

6.9.2 Combine all for training and testing

```python
X_train_combined = np.concatenate([bach_train_X, beethoven_train_X,
 ↪chopin_train_X, mozart_train_X], axis=0)
X_test_combined = np.concatenate([bach_test_X, beethoven_test_X, chopin_test_X,
 ↪mozart_test_X], axis=0)
y_train_combined = np.concatenate([bach_train_y, beethoven_train_y,
 ↪chopin_train_y, mozart_train_y], axis=0)
y_test_combined = np.concatenate([bach_test_y, beethoven_test_y, chopin_test_y,
 ↪mozart_test_y], axis=0)

print(f"Combined training features shape: {X_train_combined.shape}")
print(f"Combined testing features shape: {X_test_combined.shape}")
print(f"Combined training labels shape: {y_train_combined.shape}")
print(f"Combined testing labels shape: {y_test_combined.shape}")
```

```
Combined training features shape: (1222, 168, 7)
Combined testing features shape: (308, 168, 7)
Combined training labels shape: (1222,)
Combined testing labels shape: (308,)
```

6.9.3 Encode labels numerically

```python
composer_to_idx = {"Bach": 0, "Beethoven": 1, "Chopin": 2, "Mozart": 3}
y_train_encoded = np.array([composer_to_idx[label] for label in
 ↪y_train_combined])
y_test_encoded = np.array([composer_to_idx[label] for label in y_test_combined])
```

6.9.4 Add channel dimension for CNN

```python
X_train_final = np.expand_dims(X_train_combined, axis=-1)
X_test_final = np.expand_dims(X_test_combined, axis=-1)

print(f"X_train_final shape after channel add: {X_train_final.shape}")
print(f"X_test_final shape after channel add: {X_test_final.shape}")
```

```
X_train_final shape after channel add: (1222, 168, 7, 1)
X_test_final shape after channel add: (308, 168, 7, 1)
```

7 Model Training, Evaluation and Hyperparameter Tuning/Optimization

7.1 CNN Base Model

```
[ ]: num_composer_classes = 4

composer_cnn_base_model = Sequential([
    Conv2D(32, (3,1), activation='relu', input_shape=(DESIRED_HEIGHT, 7, 1)),
    MaxPooling2D((2,1)),
    Conv2D(64, (3,1), activation='relu'),
    MaxPooling2D((2,1)),
    Conv2D(128, (3,1), activation='relu'),
    Flatten(),
    Dense(64, activation='relu'),
    Dense(num_composer_classes, activation='softmax')
])
```

```
[ ]: composer_cnn_base_model.compile(
    optimizer='adam',
    loss='sparse_categorical_crossentropy',
    metrics=['accuracy']
)
```

```
[ ]: composer_cnn_base_model.summary()
```

Model: "sequential_1"

Layer (type)	Output Shape	Param #
conv2d_3 (Conv2D)	(None, 166, 7, 32)	128
max_pooling2d_2 (MaxPooling2D)	(None, 83, 7, 32)	0
conv2d_4 (Conv2D)	(None, 81, 7, 64)	6,208
max_pooling2d_3 (MaxPooling2D)	(None, 40, 7, 64)	0
conv2d_5 (Conv2D)	(None, 38, 7, 128)	24,704
flatten_1 (Flatten)	(None, 34048)	0
dense_2 (Dense)	(None, 64)	2,179,136
dense_3 (Dense)	(None, 4)	260

```
Total params: 2,210,436 (8.43 MB)

Trainable params: 2,210,436 (8.43 MB)

Non-trainable params: 0 (0.00 B)
```

```
[ ]: training_history = composer_cnn_base_model.fit(
         X_train_final, y_train_encoded,
         epochs=10, batch_size=32,
         validation_data=(X_test_final, y_test_encoded)
     )
```

```
Epoch 1/10
39/39              6s 69ms/step -
accuracy: 0.5481 - loss: 1.1668 - val_accuracy: 0.6591 - val_loss: 0.8012
Epoch 2/10
39/39              2s 58ms/step -
accuracy: 0.7029 - loss: 0.6812 - val_accuracy: 0.7435 - val_loss: 0.6853
Epoch 3/10
39/39              2s 58ms/step -
accuracy: 0.7874 - loss: 0.5640 - val_accuracy: 0.7240 - val_loss: 0.6484
Epoch 4/10
39/39              2s 59ms/step -
accuracy: 0.8585 - loss: 0.3846 - val_accuracy: 0.7565 - val_loss: 0.6810
Epoch 5/10
39/39              2s 57ms/step -
accuracy: 0.8970 - loss: 0.2881 - val_accuracy: 0.7045 - val_loss: 0.8108
Epoch 6/10
39/39              2s 57ms/step -
accuracy: 0.9379 - loss: 0.2048 - val_accuracy: 0.7597 - val_loss: 0.7255
Epoch 7/10
39/39              2s 58ms/step -
accuracy: 0.9806 - loss: 0.0860 - val_accuracy: 0.7370 - val_loss: 0.9760
Epoch 8/10
39/39              2s 61ms/step -
accuracy: 0.9863 - loss: 0.0577 - val_accuracy: 0.7597 - val_loss: 0.7602
Epoch 9/10
39/39              3s 67ms/step -
accuracy: 0.9948 - loss: 0.0283 - val_accuracy: 0.7857 - val_loss: 0.8295
Epoch 10/10
39/39              2s 57ms/step -
accuracy: 1.0000 - loss: 0.0112 - val_accuracy: 0.7695 - val_loss: 0.9087
```

7.2 Evaluation of CNN Base Model

```
test_loss, test_accuracy = composer_cnn_base_model.evaluate(X_test_final,␣
 ↪y_test_encoded)
print(f"Test accuracy: {test_accuracy}")
```

```
10/10                 0s 16ms/step -
accuracy: 0.8581 - loss: 0.5185
Test accuracy: 0.7694805264472961
```

```
predictions = composer_cnn_base_model.predict(X_test_final)
predicted_classes = np.argmax(predictions, axis=1)

print("\n=== Expected labels ===")
print(y_test_encoded)
print("\n=== Predicted labels ===")
print(predicted_classes)
```

```
10/10                 0s 26ms/step
```

```
=== Expected labels ===
[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3
 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
 3 3 3 3 3 3 3 3 3 3 3 3 3]

=== Predicted labels ===
[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 3 3 0 0 3 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 3 0 0 0 0 0
 0 0 0 0 3 0 0 0 0 0 0 0 3 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0
 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 3 1 3 3 1 1 3 0 1 3 3 3 1 1 1 0 1 2 1 3 3 1 1 1 1 3 1 2 3 1 3 1 3 3 3 1 3
 3 1 2 1 1 3 2 1 3 1 3 2 2 3 3 3 1 3 1 1 0 2 1 3 1 1 3 2 3 1 1 3 1 2 1 3 3
 3 3 3 3 3 1 3 3 3 3 3 0 3 3 3 3 3 3 0 3 3 3 3 3 1 3 3 3 1 3 1 1 3 3 3 3 0
 3 3 2 3 0 1 3 3 3 1 3 3]
```

```
print("\n=== Classification Report ===")
print(classification_report(y_test_encoded, predicted_classes))
```

```
=== Classification Report ===
              precision    recall  f1-score   support
```

	precision	recall	f1-score	support
0	0.96	0.93	0.95	185
1	0.51	0.47	0.49	43
2	0.60	0.21	0.32	28
3	0.49	0.75	0.59	52
accuracy			0.77	308
macro avg	0.64	0.59	0.58	308
weighted avg	0.79	0.77	0.76	308

```python
# Plot training & validation accuracy and loss curves
plt.figure(figsize=(14,5))

# Accuracy plot
plt.subplot(1,2,1)
plt.plot(training_history.history['accuracy'], label='Train Accuracy')
plt.plot(training_history.history['val_accuracy'], label='Validation Accuracy')
plt.title('Model Accuracy')
plt.xlabel('Epoch')
plt.ylabel('Accuracy')
plt.legend()

# Loss plot
plt.subplot(1,2,2)
plt.plot(training_history.history['loss'], label='Train Loss')
plt.plot(training_history.history['val_loss'], label='Validation Loss')
plt.title('Model Loss')
plt.xlabel('Epoch')
plt.ylabel('Loss')
plt.legend()

plt.show()
```
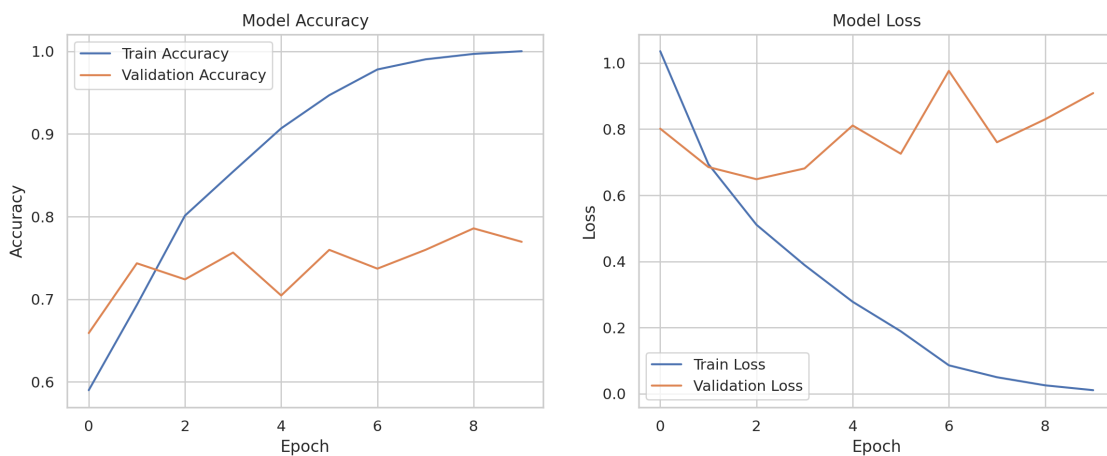
7.3 Observations from the CNN Base Model

- A ~77% test accuracy is similarly respectable but not perfect.

- The model performs very well on class 0 (probably Bach) with precision and recall both high.

- Classes 1, 2, and 3 have comparatively lower precision and recall, class 2 (maybe Chopin?) having low recall (0.21) and f1 (0.32).

- The model clearly predicts many classes with class 3 as the predicted label (there's a lot of label confusion that suggests many misclassifications into class 3).

- This can depend on class imbalance or not enough features for those composers.

- Because of class imbalance, we got such plateaued graphs for validation accuracy and validation loss.

7.4 CNN Model with Hyperparameter Tuning / Optimization

7.4.1 Best Model

```python
def build_model(hp):
    # Map string keys to actual kernel size tuples
    kernel_size_map = {
        '3x1': (3, 1),
        '3x3': (3, 3),
        '5x1': (5, 1)
    }

    conv1_kernel_choice = hp.Choice('conv1_kernel', ['3x1', '3x3', '5x1'])
    conv2_kernel_choice = hp.Choice('conv2_kernel', ['3x1', '3x3', '5x1'])
    conv3_kernel_choice = hp.Choice('conv3_kernel', ['3x1', '3x3', '5x1'])

    model = Sequential()
    model.add(
        Conv2D(
            filters=hp.Int('conv1_filters', 16, 64, step=16),
            kernel_size=kernel_size_map[conv1_kernel_choice],
            activation='relu',
            input_shape=(DESIRED_HEIGHT, 7, 1)
        )
    )
    model.add(MaxPooling2D((2,1)))

    model.add(
        Conv2D(
            filters=hp.Int('conv2_filters', 32, 128, step=32),
            kernel_size=kernel_size_map[conv2_kernel_choice],
```

```python
                activation='relu'
            )
        )
    model.add(MaxPooling2D((2,1)))

    model.add(
        Conv2D(
            filters=hp.Int('conv3_filters', 64, 256, step=64),
            kernel_size=kernel_size_map[conv3_kernel_choice],
            activation='relu'
        )
    )
    model.add(Flatten())

    model.add(Dense(units=hp.Int('dense_units', 32, 128, step=32),
    ↪activation='relu'))

    if hp.Boolean('dropout'):
        model.add(Dropout(rate=hp.Float('dropout_rate', 0.2, 0.5, step=0.1)))

    model.add(Dense(num_composer_classes, activation='softmax'))

    model.compile(
        optimizer=tf.keras.optimizers.Adam(
            hp.Float('learning_rate', 1e-4, 1e-2, sampling='log')
        ),
        loss='sparse_categorical_crossentropy',
        metrics=['accuracy']
    )

    return model
```

```python
[ ]: tuner = kt.RandomSearch(
        build_model,
        objective='val_accuracy',
        max_trials=10,
        executions_per_trial=1,
        directory='composer_cnn_tuning',
        project_name='midi_cnn'
    )
```

```python
[ ]: tuner.search_space_summary()
```

```
Search space summary
Default search space size: 9
conv1_kernel (Choice)
{'default': '3x1', 'conditions': [], 'values': ['3x1', '3x3', '5x1'], 'ordered':
```

```
False}
conv2_kernel (Choice)
{'default': '3x1', 'conditions': [], 'values': ['3x1', '3x3', '5x1'], 'ordered':
False}
conv3_kernel (Choice)
{'default': '3x1', 'conditions': [], 'values': ['3x1', '3x3', '5x1'], 'ordered':
False}
conv1_filters (Int)
{'default': None, 'conditions': [], 'min_value': 16, 'max_value': 64, 'step':
16, 'sampling': 'linear'}
conv2_filters (Int)
{'default': None, 'conditions': [], 'min_value': 32, 'max_value': 128, 'step':
32, 'sampling': 'linear'}
conv3_filters (Int)
{'default': None, 'conditions': [], 'min_value': 64, 'max_value': 256, 'step':
64, 'sampling': 'linear'}
dense_units (Int)
{'default': None, 'conditions': [], 'min_value': 32, 'max_value': 128, 'step':
32, 'sampling': 'linear'}
dropout (Boolean)
{'default': False, 'conditions': []}
learning_rate (Float)
{'default': 0.0001, 'conditions': [], 'min_value': 0.0001, 'max_value': 0.01,
'step': None, 'sampling': 'log'}
```

```python
tuner.search(
    X_train_final, y_train_encoded,
    epochs=10,
    validation_data=(X_test_final, y_test_encoded),
    batch_size=32
)
```

```
Trial 10 Complete [00h 00m 31s]
val_accuracy: 0.7402597665786743

Best val_accuracy So Far: 0.801948070526123
Total elapsed time: 00h 06m 26s
```

```python
tuner.results_summary()
```

```
Results summary
Results in composer_cnn_tuning/midi_cnn
Showing 10 best trials
Objective(name="val_accuracy", direction="max")

Trial 01 summary
Hyperparameters:
conv1_kernel: 3x1
```

```
conv2_kernel: 3x1
conv3_kernel: 5x1
conv1_filters: 16
conv2_filters: 64
conv3_filters: 192
dense_units: 96
dropout: True
learning_rate: 0.0008508593738548981
dropout_rate: 0.4
Score: 0.801948070526123

Trial 00 summary
Hyperparameters:
conv1_kernel: 3x1
conv2_kernel: 3x3
conv3_kernel: 3x1
conv1_filters: 48
conv2_filters: 128
conv3_filters: 64
dense_units: 64
dropout: True
learning_rate: 0.0007019274138248607
dropout_rate: 0.2
Score: 0.7824675440788269

Trial 05 summary
Hyperparameters:
conv1_kernel: 5x1
conv2_kernel: 3x3
conv3_kernel: 3x3
conv1_filters: 64
conv2_filters: 32
conv3_filters: 64
dense_units: 64
dropout: False
learning_rate: 0.0024351489061066756
dropout_rate: 0.4
Score: 0.7824675440788269

Trial 06 summary
Hyperparameters:
conv1_kernel: 5x1
conv2_kernel: 5x1
conv3_kernel: 3x1
conv1_filters: 32
conv2_filters: 96
conv3_filters: 256
dense_units: 32
```

```
dropout: True
learning_rate: 0.00016651932743131387
dropout_rate: 0.4
Score: 0.7662337422370911

Trial 08 summary
Hyperparameters:
conv1_kernel: 3x1
conv2_kernel: 3x3
conv3_kernel: 3x3
conv1_filters: 16
conv2_filters: 32
conv3_filters: 64
dense_units: 32
dropout: False
learning_rate: 0.0007564197611404533
dropout_rate: 0.4
Score: 0.7597402334213257

Trial 07 summary
Hyperparameters:
conv1_kernel: 3x3
conv2_kernel: 3x3
conv3_kernel: 3x1
conv1_filters: 32
conv2_filters: 128
conv3_filters: 64
dense_units: 128
dropout: True
learning_rate: 0.003451000688272909
dropout_rate: 0.2
Score: 0.7402597665786743

Trial 09 summary
Hyperparameters:
conv1_kernel: 5x1
conv2_kernel: 5x1
conv3_kernel: 3x1
conv1_filters: 16
conv2_filters: 128
conv3_filters: 64
dense_units: 32
dropout: True
learning_rate: 0.004147731932902771
dropout_rate: 0.30000000000000004
Score: 0.7402597665786743

Trial 04 summary
```

```
Hyperparameters:
conv1_kernel: 3x1
conv2_kernel: 5x1
conv3_kernel: 5x1
conv1_filters: 32
conv2_filters: 96
conv3_filters: 64
dense_units: 64
dropout: True
learning_rate: 0.00793559234123734
dropout_rate: 0.2
Score: 0.7370129823684692

Trial 02 summary
Hyperparameters:
conv1_kernel: 3x1
conv2_kernel: 3x3
conv3_kernel: 5x1
conv1_filters: 32
conv2_filters: 128
conv3_filters: 256
dense_units: 32
dropout: False
learning_rate: 0.003710894529717066
dropout_rate: 0.4
Score: 0.7240259647369385

Trial 03 summary
Hyperparameters:
conv1_kernel: 3x3
conv2_kernel: 5x1
conv3_kernel: 3x3
conv1_filters: 48
conv2_filters: 32
conv3_filters: 128
dense_units: 32
dropout: False
learning_rate: 0.00014530967999932864
dropout_rate: 0.30000000000000004
Score: 0.6525974273681641
```

```python
# Retrieve the best model and retrain if needed
best_model = tuner.get_best_models(num_models=1)[0]
```

```python
best_model
```

```
<Sequential name=sequential, built=True>
```

```
test_loss, test_acc = best_model.evaluate(X_test_final, y_test_encoded)
print(f"Test Accuracy: {test_acc}")
```

```
10/10                    1s 23ms/step -
accuracy: 0.8951 - loss: 0.2711
Test Accuracy: 0.801948070526123
```

```
predictions = best_model.predict(X_test_final)
predicted_classes = np.argmax(predictions, axis=1)
```

```
10/10                    0s 31ms/step
```

```
print(" === Finetuned CNN Classification Report === \n")
print(classification_report(y_test_encoded, predicted_classes))
```

```
=== Finetuned CNN Classification Report ===

              precision    recall  f1-score   support

           0       0.97      0.97      0.97       185
           1       0.50      0.40      0.44        43
           2       0.42      0.36      0.38        28
           3       0.62      0.79      0.69        52

    accuracy                           0.80       308
   macro avg       0.63      0.63      0.62       308
weighted avg       0.80      0.80      0.80       308
```

7.4.2   Handle Class Imbalance

```
class_weights = compute_class_weight('balanced', classes=np.
 ↪unique(y_train_encoded), y=y_train_encoded)
class_weights_dict = dict(enumerate(class_weights))

history_class_imbalance = best_model.fit(
    X_train_final, y_train_encoded,
    epochs=10,
    validation_data=(X_test_final, y_test_encoded),
    batch_size=32,
    class_weight=class_weights_dict
)
```

```
Epoch 1/10
39/39                    4s 112ms/step -
accuracy: 0.9491 - loss: 0.1944 - val_accuracy: 0.7760 - val_loss: 0.7686
Epoch 2/10
39/39                    5s 117ms/step -
```

```
accuracy: 0.9577 - loss: 0.1709 - val_accuracy: 0.7825 - val_loss: 0.6793
Epoch 3/10
39/39               4s 113ms/step -
accuracy: 0.9655 - loss: 0.1471 - val_accuracy: 0.7825 - val_loss: 0.7129
Epoch 4/10
39/39               5s 117ms/step -
accuracy: 0.9584 - loss: 0.1283 - val_accuracy: 0.7825 - val_loss: 0.6964
Epoch 5/10
39/39               5s 105ms/step -
accuracy: 0.9477 - loss: 0.1417 - val_accuracy: 0.7662 - val_loss: 0.6896
Epoch 6/10
39/39               4s 113ms/step -
accuracy: 0.9732 - loss: 0.1016 - val_accuracy: 0.8052 - val_loss: 0.7341
Epoch 7/10
39/39               4s 97ms/step -
accuracy: 0.9701 - loss: 0.1098 - val_accuracy: 0.7792 - val_loss: 0.6963
Epoch 8/10
39/39               4s 100ms/step -
accuracy: 0.9556 - loss: 0.1767 - val_accuracy: 0.7792 - val_loss: 0.8565
Epoch 9/10
39/39               4s 104ms/step -
accuracy: 0.9753 - loss: 0.1303 - val_accuracy: 0.7825 - val_loss: 0.9771
Epoch 10/10
39/39               4s 102ms/step -
accuracy: 0.9739 - loss: 0.1086 - val_accuracy: 0.7695 - val_loss: 0.9495
```

```python
test_loss, test_acc = best_model.evaluate(X_test_final, y_test_encoded)
print(f"Test Accuracy: {test_acc}")

predictions = best_model.predict(X_test_final)
predicted_classes = np.argmax(predictions, axis=1)

print("\n\n === Finetuned CNN Classification Report with Class imbalance
  handling === \n")
print(classification_report(y_test_encoded, predicted_classes))
```

```
10/10               0s 24ms/step -
accuracy: 0.8903 - loss: 0.4351
Test Accuracy: 0.7694805264472961
10/10               0s 23ms/step


 === Finetuned CNN Classification Report with Class imbalance handling ===

             precision    recall  f1-score   support

          0       0.93      0.97      0.95       185
          1       0.46      0.56      0.51        43
```

2	0.50	0.29	0.36	28
3	0.54	0.50	0.52	52
accuracy			0.77	308
macro avg	0.61	0.58	0.58	308
weighted avg	0.76	0.77	0.76	308

```python
# Plot training & validation accuracy values
plt.figure(figsize=(12, 5))

plt.subplot(1, 2, 1)
plt.plot(history_class_imbalance.history['accuracy'], label='Train Accuracy')
plt.plot(history_class_imbalance.history['val_accuracy'], label='Validation
 Accuracy')
plt.title('Model Accuracy')
plt.xlabel('Epoch')
plt.ylabel('Accuracy')
plt.legend()

# Plot training & validation loss values
plt.subplot(1, 2, 2)
plt.plot(history_class_imbalance.history['loss'], label='Train Loss')
plt.plot(history_class_imbalance.history['val_loss'], label='Validation Loss')
plt.title('Model Loss')
plt.xlabel('Epoch')
plt.ylabel('Loss')
plt.legend()

plt.show()
```
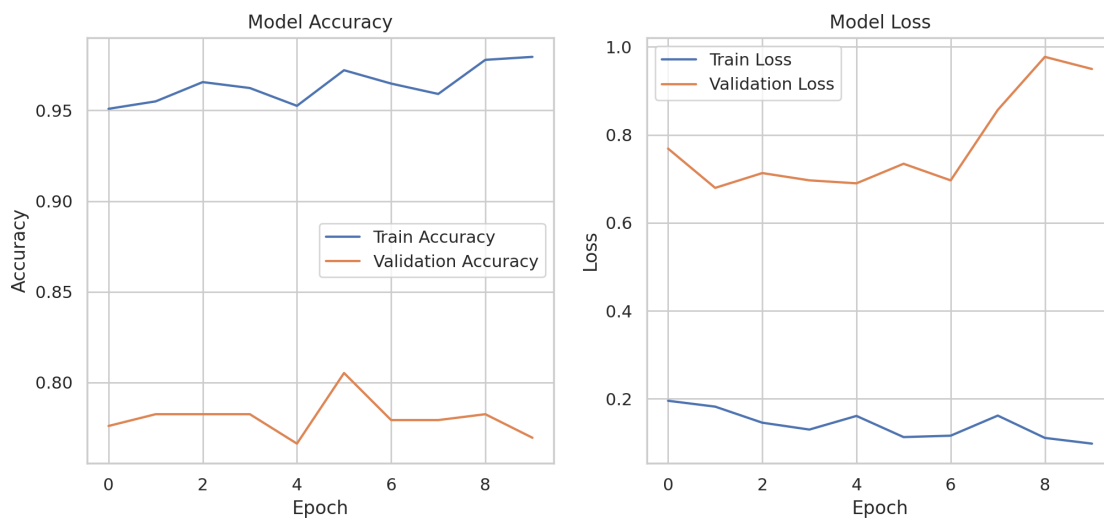
7.5 CNN with Regularization, DropOut and EarlyStopping criterion

```python
weight_decay = 1e-5  # smaller L2 regularization

model = Sequential([
    Conv2D(64, (3,3), activation='relu', padding='same',
 ↪input_shape=X_train_final.shape[1:],
            kernel_regularizer=regularizers.l2(weight_decay)),
    BatchNormalization(),
    MaxPooling2D(2, 2),
    Dropout(0.2),

    Conv2D(128, (3,3), activation='relu', padding='same',
 ↪kernel_regularizer=regularizers.l2(weight_decay)),
    BatchNormalization(),
    MaxPooling2D(2, 2),
    Dropout(0.3),

    Flatten(),
    Dense(256, activation='relu', kernel_regularizer=regularizers.
 ↪l2(weight_decay)),
    Dropout(0.3),

    Dense(num_composer_classes, activation='softmax')
])

model.compile(
    optimizer=tf.keras.optimizers.Adam(learning_rate=1e-3),  # higher LR
    loss='sparse_categorical_crossentropy',
    metrics=['accuracy']
)

early_stopping = EarlyStopping(
    monitor='val_loss',
    patience=15,
    restore_best_weights=True,
    verbose=1
)

reduce_lr = ReduceLROnPlateau(
    monitor='val_loss',
    factor=0.5,
    patience=5,
    verbose=1,
    min_lr=1e-6
)
```

```
history = model.fit(
    X_train_final, y_train_encoded,
    epochs=100,
    batch_size=32,
    validation_data=(X_test_final, y_test_encoded),
    class_weight=class_weights_dict,
    callbacks=[early_stopping, reduce_lr]
)
```

```
Epoch 1/100
39/39              8s 116ms/step -
accuracy: 0.3064 - loss: 4.3785 - val_accuracy: 0.1883 - val_loss: 1.5377 -
learning_rate: 0.0010
Epoch 2/100
39/39              4s 101ms/step -
accuracy: 0.5535 - loss: 1.2710 - val_accuracy: 0.1429 - val_loss: 3.4533 -
learning_rate: 0.0010
Epoch 3/100
39/39              4s 101ms/step -
accuracy: 0.6597 - loss: 0.9475 - val_accuracy: 0.1396 - val_loss: 9.6931 -
learning_rate: 0.0010
Epoch 4/100
39/39              4s 102ms/step -
accuracy: 0.6902 - loss: 0.8656 - val_accuracy: 0.1364 - val_loss: 11.5054 -
learning_rate: 0.0010
Epoch 5/100
39/39              5s 118ms/step -
accuracy: 0.7873 - loss: 0.6616 - val_accuracy: 0.1429 - val_loss: 14.7081 -
learning_rate: 0.0010
Epoch 6/100
38/39              0s 97ms/step -
accuracy: 0.8210 - loss: 0.5302
Epoch 6: ReduceLROnPlateau reducing learning rate to 0.0005000000237487257.
39/39              4s 105ms/step -
accuracy: 0.8205 - loss: 0.5331 - val_accuracy: 0.1396 - val_loss: 16.2400 -
learning_rate: 0.0010
Epoch 7/100
39/39              4s 101ms/step -
accuracy: 0.8467 - loss: 0.4922 - val_accuracy: 0.1461 - val_loss: 11.2383 -
learning_rate: 5.0000e-04
Epoch 8/100
39/39              4s 100ms/step -
accuracy: 0.8978 - loss: 0.3769 - val_accuracy: 0.1883 - val_loss: 7.2371 -
learning_rate: 5.0000e-04
Epoch 9/100
39/39              4s 100ms/step -
accuracy: 0.9205 - loss: 0.2797 - val_accuracy: 0.1818 - val_loss: 6.4202 -
```

```
learning_rate: 5.0000e-04
Epoch 10/100
39/39              4s 102ms/step -
accuracy: 0.9164 - loss: 0.2311 - val_accuracy: 0.2890 - val_loss: 3.7984 -
learning_rate: 5.0000e-04
Epoch 11/100
38/39              0s 95ms/step -
accuracy: 0.9234 - loss: 0.2293
Epoch 11: ReduceLROnPlateau reducing learning rate to 0.0002500000118743628.
39/39              4s 101ms/step -
accuracy: 0.9234 - loss: 0.2296 - val_accuracy: 0.4513 - val_loss: 2.6031 -
learning_rate: 5.0000e-04
Epoch 12/100
39/39              4s 101ms/step -
accuracy: 0.9445 - loss: 0.1566 - val_accuracy: 0.6071 - val_loss: 1.8470 -
learning_rate: 2.5000e-04
Epoch 13/100
39/39              4s 114ms/step -
accuracy: 0.9617 - loss: 0.1369 - val_accuracy: 0.6558 - val_loss: 1.5786 -
learning_rate: 2.5000e-04
Epoch 14/100
39/39              4s 100ms/step -
accuracy: 0.9663 - loss: 0.1263 - val_accuracy: 0.6786 - val_loss: 1.2902 -
learning_rate: 2.5000e-04
Epoch 15/100
39/39              4s 102ms/step -
accuracy: 0.9464 - loss: 0.1420 - val_accuracy: 0.6948 - val_loss: 1.1649 -
learning_rate: 2.5000e-04
Epoch 16/100
39/39              4s 103ms/step -
accuracy: 0.9705 - loss: 0.0973 - val_accuracy: 0.7175 - val_loss: 1.0707 -
learning_rate: 2.5000e-04
Epoch 17/100
39/39              4s 104ms/step -
accuracy: 0.9750 - loss: 0.0978 - val_accuracy: 0.7240 - val_loss: 0.9972 -
learning_rate: 2.5000e-04
Epoch 18/100
39/39              4s 100ms/step -
accuracy: 0.9739 - loss: 0.1010 - val_accuracy: 0.7110 - val_loss: 1.0128 -
learning_rate: 2.5000e-04
Epoch 19/100
39/39              4s 104ms/step -
accuracy: 0.9722 - loss: 0.0889 - val_accuracy: 0.7305 - val_loss: 1.0114 -
learning_rate: 2.5000e-04
Epoch 20/100
39/39              4s 103ms/step -
accuracy: 0.9745 - loss: 0.0913 - val_accuracy: 0.7208 - val_loss: 1.0064 -
learning_rate: 2.5000e-04
```

```
Epoch 21/100
39/39            4s 114ms/step -
accuracy: 0.9734 - loss: 0.0842 - val_accuracy: 0.7240 - val_loss: 1.0104 -
learning_rate: 2.5000e-04
Epoch 22/100
38/39            0s 95ms/step -
accuracy: 0.9712 - loss: 0.1022
Epoch 22: ReduceLROnPlateau reducing learning rate to 0.0001250000059371814.
39/39            4s 103ms/step -
accuracy: 0.9712 - loss: 0.1016 - val_accuracy: 0.7208 - val_loss: 1.0073 -
learning_rate: 2.5000e-04
Epoch 23/100
39/39            4s 102ms/step -
accuracy: 0.9677 - loss: 0.0916 - val_accuracy: 0.7532 - val_loss: 0.9238 -
learning_rate: 1.2500e-04
Epoch 24/100
39/39            4s 103ms/step -
accuracy: 0.9858 - loss: 0.0565 - val_accuracy: 0.7435 - val_loss: 0.9040 -
learning_rate: 1.2500e-04
Epoch 25/100
39/39            4s 99ms/step -
accuracy: 0.9890 - loss: 0.0578 - val_accuracy: 0.7338 - val_loss: 0.9423 -
learning_rate: 1.2500e-04
Epoch 26/100
39/39            4s 102ms/step -
accuracy: 0.9866 - loss: 0.0533 - val_accuracy: 0.7532 - val_loss: 0.8949 -
learning_rate: 1.2500e-04
Epoch 27/100
39/39            4s 100ms/step -
accuracy: 0.9864 - loss: 0.0638 - val_accuracy: 0.7468 - val_loss: 0.9111 -
learning_rate: 1.2500e-04
Epoch 28/100
39/39            4s 100ms/step -
accuracy: 0.9748 - loss: 0.0586 - val_accuracy: 0.7500 - val_loss: 0.9316 -
learning_rate: 1.2500e-04
Epoch 29/100
39/39            4s 114ms/step -
accuracy: 0.9841 - loss: 0.0545 - val_accuracy: 0.7500 - val_loss: 0.9062 -
learning_rate: 1.2500e-04
Epoch 30/100
39/39            4s 101ms/step -
accuracy: 0.9878 - loss: 0.0454 - val_accuracy: 0.7597 - val_loss: 0.9071 -
learning_rate: 1.2500e-04
Epoch 31/100
38/39            0s 94ms/step -
accuracy: 0.9863 - loss: 0.0471
Epoch 31: ReduceLROnPlateau reducing learning rate to 6.25000029685907e-05.
39/39            4s 100ms/step -
```

```
accuracy: 0.9863 - loss: 0.0472 - val_accuracy: 0.7532 - val_loss: 0.9195 -
learning_rate: 1.2500e-04
Epoch 32/100
39/39              4s 100ms/step -
accuracy: 0.9871 - loss: 0.0543 - val_accuracy: 0.7565 - val_loss: 0.9136 -
learning_rate: 6.2500e-05
Epoch 33/100
39/39              4s 98ms/step -
accuracy: 0.9907 - loss: 0.0459 - val_accuracy: 0.7597 - val_loss: 0.9155 -
learning_rate: 6.2500e-05
Epoch 34/100
39/39              4s 101ms/step -
accuracy: 0.9895 - loss: 0.0644 - val_accuracy: 0.7565 - val_loss: 0.9180 -
learning_rate: 6.2500e-05
Epoch 35/100
39/39              4s 99ms/step -
accuracy: 0.9924 - loss: 0.0434 - val_accuracy: 0.7435 - val_loss: 0.9401 -
learning_rate: 6.2500e-05
Epoch 36/100
38/39              0s 93ms/step -
accuracy: 0.9889 - loss: 0.0446
Epoch 36: ReduceLROnPlateau reducing learning rate to 3.125000148429535e-05.
39/39              4s 99ms/step -
accuracy: 0.9889 - loss: 0.0444 - val_accuracy: 0.7630 - val_loss: 0.9063 -
learning_rate: 6.2500e-05
Epoch 37/100
39/39              4s 108ms/step -
accuracy: 0.9913 - loss: 0.0466 - val_accuracy: 0.7532 - val_loss: 0.9141 -
learning_rate: 3.1250e-05
Epoch 38/100
39/39              4s 104ms/step -
accuracy: 0.9759 - loss: 0.0589 - val_accuracy: 0.7597 - val_loss: 0.9112 -
learning_rate: 3.1250e-05
Epoch 39/100
39/39              4s 100ms/step -
accuracy: 0.9939 - loss: 0.0386 - val_accuracy: 0.7630 - val_loss: 0.9110 -
learning_rate: 3.1250e-05
Epoch 40/100
39/39              5s 99ms/step -
accuracy: 0.9905 - loss: 0.0435 - val_accuracy: 0.7662 - val_loss: 0.9133 -
learning_rate: 3.1250e-05
Epoch 41/100
38/39              0s 94ms/step -
accuracy: 0.9899 - loss: 0.0350
Epoch 41: ReduceLROnPlateau reducing learning rate to 1.5625000742147677e-05.
39/39              4s 100ms/step -
accuracy: 0.9898 - loss: 0.0352 - val_accuracy: 0.7695 - val_loss: 0.9142 -
learning_rate: 3.1250e-05
```

```
Epoch 41: early stopping
Restoring model weights from the end of the best epoch: 26.
```

```python
# Predict classes for test data
pred_probs = model.predict(X_test_final)
pred_classes = np.argmax(pred_probs, axis=1)

# Confusion matrix
cm = confusion_matrix(y_test_encoded, pred_classes)
plt.figure(figsize=(8,6))
sns.heatmap(cm, annot=True, fmt='d', cmap='Blues',
  ↪xticklabels=TARGET_COMPOSERS, yticklabels=TARGET_COMPOSERS)
plt.xlabel('Predicted Label')
plt.ylabel('True Label')
plt.title('Confusion Matrix')
plt.show()

# Classification report
print("\n === Classification Report with Regularization, Early Stopping and␣
  ↪DropOut ===\n")
print(classification_report(y_test_encoded, pred_classes,␣
  ↪target_names=TARGET_COMPOSERS))
```

```
10/10                    0s 25ms/step
```

Confusion Matrix
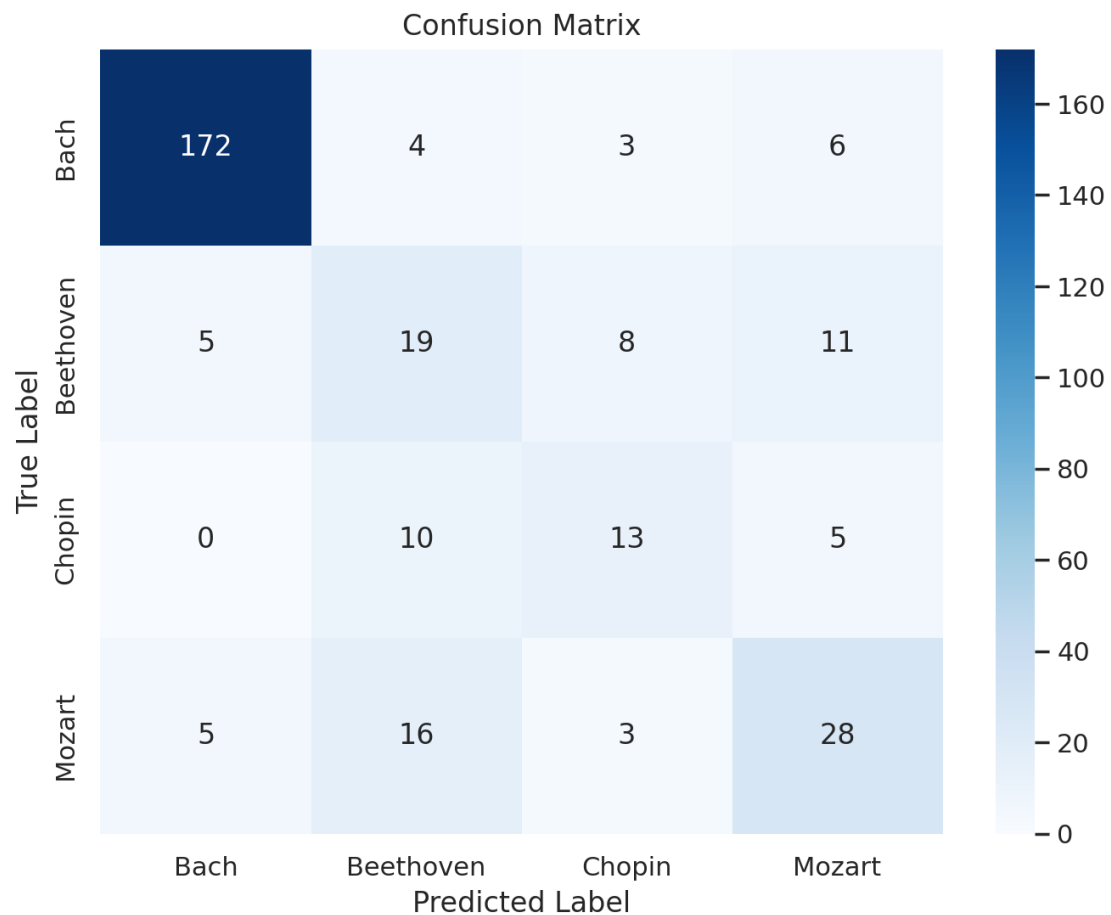
=== Classification Report with Regularization, Early Stopping and DropOut ===

	precision	recall	f1-score	support
Bach	0.95	0.93	0.94	185
Beethoven	0.39	0.44	0.41	43
Chopin	0.48	0.46	0.47	28
Mozart	0.56	0.54	0.55	52
accuracy			0.75	308
macro avg	0.59	0.59	0.59	308
weighted avg	0.76	0.75	0.76	308

7.6 LSTM Base Model

```python
# Prepare LSTM input by removing the last dimension (channel=1)
x_train_lstm = np.squeeze(X_train_final, axis=-1)
x_test_lstm = np.squeeze(X_test_final, axis=-1)
```

```python
x_train_lstm.shape, x_test_lstm.shape
```

```
((1222, 168, 7), (308, 168, 7))
```

```python
sequence_length = x_train_lstm.shape[1]
feature_dim = x_train_lstm.shape[2]
num_composers = len(TARGET_COMPOSERS)

# Build LSTM model
composer_lstm_model = Sequential([
    LSTM(128, input_shape=(sequence_length, feature_dim),
    ↪return_sequences=True),
    Dropout(0.2),
    LSTM(128),
    Dropout(0.2),
    Dense(64, activation='relu'),
    Dense(num_composers, activation='softmax')
])
```

```python
composer_lstm_model.compile(
    optimizer='adam',
    loss='sparse_categorical_crossentropy',
    metrics=['accuracy']
)
```

```python
composer_lstm_model.summary()
```

Model: "sequential_9"

Layer (type)	Output Shape	Param #
lstm_4 (LSTM)	(None, 168, 128)	69,632
dropout_26 (Dropout)	(None, 168, 128)	0
lstm_5 (LSTM)	(None, 128)	131,584
dropout_27 (Dropout)	(None, 128)	0
dense_19 (Dense)	(None, 64)	8,256

```
dense_20 (Dense)                    (None, 4)                        260
```

 Total params: 209,732 (819.27 KB)

 Trainable params: 209,732 (819.27 KB)

 Non-trainable params: 0 (0.00 B)

```python
# Train the model
training_history = composer_lstm_model.fit(
    x_train_lstm, y_train_encoded,
    epochs=20,
    batch_size=32,
    validation_data=(x_test_lstm, y_test_encoded)
)
```

```
Epoch 1/20
39/39               21s 390ms/step -
accuracy: 0.5609 - loss: 1.1934 - val_accuracy: 0.6104 - val_loss: 1.0045
Epoch 2/20
39/39               14s 361ms/step -
accuracy: 0.6273 - loss: 0.9682 - val_accuracy: 0.5487 - val_loss: 1.0147
Epoch 3/20
39/39               14s 370ms/step -
accuracy: 0.6409 - loss: 0.9473 - val_accuracy: 0.6591 - val_loss: 0.8467
Epoch 4/20
39/39               14s 364ms/step -
accuracy: 0.6454 - loss: 0.8379 - val_accuracy: 0.6364 - val_loss: 0.8785
Epoch 5/20
39/39               14s 368ms/step -
accuracy: 0.6352 - loss: 0.8777 - val_accuracy: 0.4903 - val_loss: 1.0497
Epoch 6/20
39/39               14s 357ms/step -
accuracy: 0.5766 - loss: 0.9336 - val_accuracy: 0.6234 - val_loss: 0.8592
Epoch 7/20
39/39               14s 369ms/step -
accuracy: 0.6360 - loss: 0.8811 - val_accuracy: 0.6364 - val_loss: 0.8118
Epoch 8/20
39/39               15s 384ms/step -
accuracy: 0.6342 - loss: 0.8870 - val_accuracy: 0.6364 - val_loss: 0.8032
Epoch 9/20
39/39               15s 384ms/step -
accuracy: 0.6563 - loss: 0.7846 - val_accuracy: 0.6234 - val_loss: 0.8745
```

```
Epoch 10/20
39/39                15s 386ms/step -
accuracy: 0.6438 - loss: 0.8573 - val_accuracy: 0.6526 - val_loss: 0.7725
Epoch 11/20
39/39                16s 399ms/step -
accuracy: 0.6608 - loss: 0.7901 - val_accuracy: 0.6494 - val_loss: 0.8538
Epoch 12/20
39/39                16s 400ms/step -
accuracy: 0.6520 - loss: 0.7997 - val_accuracy: 0.6623 - val_loss: 0.7960
Epoch 13/20
39/39                16s 399ms/step -
accuracy: 0.6443 - loss: 0.7861 - val_accuracy: 0.6396 - val_loss: 0.7889
Epoch 14/20
39/39                17s 425ms/step -
accuracy: 0.6479 - loss: 0.7412 - val_accuracy: 0.6883 - val_loss: 0.7868
Epoch 15/20
39/39                16s 409ms/step -
accuracy: 0.6523 - loss: 0.7825 - val_accuracy: 0.6494 - val_loss: 0.7978
Epoch 16/20
39/39                15s 389ms/step -
accuracy: 0.6748 - loss: 0.7528 - val_accuracy: 0.6851 - val_loss: 0.7634
Epoch 17/20
39/39                15s 383ms/step -
accuracy: 0.6787 - loss: 0.6949 - val_accuracy: 0.6656 - val_loss: 0.8023
Epoch 18/20
39/39                16s 407ms/step -
accuracy: 0.7068 - loss: 0.7050 - val_accuracy: 0.6364 - val_loss: 0.8628
Epoch 19/20
39/39                15s 391ms/step -
accuracy: 0.6483 - loss: 0.7801 - val_accuracy: 0.6916 - val_loss: 0.7355
Epoch 20/20
39/39                15s 378ms/step -
accuracy: 0.6897 - loss: 0.6900 - val_accuracy: 0.7143 - val_loss: 0.7049
```

```python
# Evaluate on test set
test_loss, test_accuracy = composer_lstm_model.evaluate(x_test_lstm,␣
 ↪y_test_encoded)
print(f"Test accuracy: {test_accuracy:.4f}")
```

```
10/10                1s 140ms/step -
accuracy: 0.8411 - loss: 0.4418
Test accuracy: 0.7143
```

```python
# Predict on test set
test_predictions = composer_lstm_model.predict(x_test_lstm)
predicted_labels = np.argmax(test_predictions, axis=1)
```

```python
print("\n" + "="*40)
print("        Expected Labels")
print("="*40)
print(y_test_encoded)
print("\n")


print("="*40)
print("        Predicted Labels")
print("="*40)
print(predicted_labels)
print("\n")
```

10/10   2s 179ms/step

```
========================================
        Expected Labels
========================================
[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3
 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
 3 3 3 3 3 3 3 3 3 3 3]


========================================
        Predicted Labels
========================================
[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 2 0 0 0 0 0 0 3 0 0 3 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2
 1 0 0 0 3 0 0 1 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3
 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 3
 1 0 1 3 3 3 1 0 3 3 1 2 1 3 2 1 1 2 3 1 3 0 3 1 3 0 1 2 2 0 1 1 2 1 3 3 0
 3 1 1 3 3 1 3 1 1 3 0 1 3 2 2 2 1 1 2 3 0 2 3 3 1 3 2 0 1 2 1 2 2 3 3 3 2
 3 0 3 3 3 1 3 0 0 0 0 3 0 1 1 3 1 1 1 1 1 3 1 3 0 1 1 3 2 3 1 1 0 3 0 3 3
 3 3 1 3 3 3 0 0 3 3 3 1]
```

```python
classification_rep = classification_report(y_test_encoded, predicted_labels)
print("="*40)
print(" CLASSIFICATION REPORT LSTM Base Model ")
print("="*40)
```

```
print(classification_rep)
```

```
========================================
 CLASSIFICATION REPORT LSTM Base Model
========================================
              precision    recall  f1-score   support

           0       0.90      0.92      0.91       185
           1       0.38      0.37      0.38        43
           2       0.43      0.32      0.37        28
           3       0.44      0.46      0.45        52

    accuracy                           0.71       308
   macro avg       0.54      0.52      0.53       308
weighted avg       0.70      0.71      0.71       308
```

7.7 Observations from LSTM Base Model

- A test accuracy `~71%` is reasonable, meaning the model learned some patterns.

- Precision/recall/F1 for class 0 (Bach) is high (`~90%`), but other composers are much lower (`~40%`). This fits with your class imbalance.

- Macro avg F1 `~0.53` tells you that the model is having a tougher time on the less represented composers.

7.8 Finetune LSTM Model (Bidirectional LSTM) with multiple techniques along with handling class-imbalance

```python
# Compute class weights to address imbalance
class_weights_arr = compute_class_weight(
    class_weight='balanced',
    classes=np.unique(y_train_encoded),
    y=y_train_encoded
)
class_weights = {i: w for i, w in enumerate(class_weights_arr)}

# Build improved LSTM model with Bidirectional and recurrent dropout
composer_lstm_model = Sequential([
    Bidirectional(LSTM(128, return_sequences=True, recurrent_dropout=0.2),
  input_shape=(sequence_length, feature_dim)),
    Dropout(0.3),
    Bidirectional(LSTM(128, recurrent_dropout=0.2)),
    Dropout(0.3),
    Dense(64, activation='relu'),
    Dropout(0.3),
    Dense(num_composers, activation='softmax')
```

```
])

composer_lstm_model.compile(
    optimizer='adam',
    loss='sparse_categorical_crossentropy',
    metrics=['accuracy']
)

composer_lstm_model.summary()
```

Model: "sequential_10"

Layer (type)	Output Shape	Param #
bidirectional (Bidirectional)	(None, 168, 256)	139,264
dropout_28 (Dropout)	(None, 168, 256)	0
bidirectional_1 (Bidirectional)	(None, 256)	394,240
dropout_29 (Dropout)	(None, 256)	0
dense_21 (Dense)	(None, 64)	16,448
dropout_30 (Dropout)	(None, 64)	0
dense_22 (Dense)	(None, 4)	260

Total params: 550,212 (2.10 MB)

Trainable params: 550,212 (2.10 MB)

Non-trainable params: 0 (0.00 B)

```
# Setup callbacks
early_stopping = EarlyStopping(monitor='val_loss', patience=5,
 ↪restore_best_weights=True)
reduce_lr = ReduceLROnPlateau(monitor='val_loss', factor=0.5, patience=3,
 ↪verbose=1)

# Train the model with class weights and callbacks
history = composer_lstm_model.fit(
```

```
    x_train_lstm, y_train_encoded,
    validation_data=(x_test_lstm, y_test_encoded),
    epochs=50,
    batch_size=32,
    class_weight=class_weights,
    callbacks=[early_stopping, reduce_lr]
)
```

```
Epoch 1/50
39/39                 39s 1s/step -
accuracy: 0.4378 - loss: 1.3022 - val_accuracy: 0.5812 - val_loss: 1.1001 -
learning_rate: 0.0010
Epoch 2/50
39/39                 35s 902ms/step -
accuracy: 0.5434 - loss: 1.2135 - val_accuracy: 0.6299 - val_loss: 0.9992 -
learning_rate: 0.0010
Epoch 3/50
39/39                 36s 915ms/step -
accuracy: 0.5854 - loss: 1.1066 - val_accuracy: 0.6039 - val_loss: 0.9365 -
learning_rate: 0.0010
Epoch 4/50
39/39                 35s 909ms/step -
accuracy: 0.5603 - loss: 1.1982 - val_accuracy: 0.6234 - val_loss: 0.9616 -
learning_rate: 0.0010
Epoch 5/50
39/39                 35s 908ms/step -
accuracy: 0.6125 - loss: 1.0345 - val_accuracy: 0.6266 - val_loss: 0.9247 -
learning_rate: 0.0010
Epoch 6/50
39/39                 34s 880ms/step -
accuracy: 0.6636 - loss: 0.9608 - val_accuracy: 0.6851 - val_loss: 0.8109 -
learning_rate: 0.0010
Epoch 7/50
39/39                 34s 879ms/step -
accuracy: 0.6734 - loss: 0.9076 - val_accuracy: 0.6883 - val_loss: 0.8099 -
learning_rate: 0.0010
Epoch 8/50
39/39                 34s 878ms/step -
accuracy: 0.6804 - loss: 0.9540 - val_accuracy: 0.6656 - val_loss: 0.7872 -
learning_rate: 0.0010
Epoch 9/50
39/39                 35s 908ms/step -
accuracy: 0.6642 - loss: 0.9083 - val_accuracy: 0.7013 - val_loss: 0.7784 -
learning_rate: 0.0010
Epoch 10/50
39/39                 34s 876ms/step -
accuracy: 0.7064 - loss: 0.9313 - val_accuracy: 0.6948 - val_loss: 0.7392 -
```

```
learning_rate: 0.0010
Epoch 11/50
39/39                35s 906ms/step -
accuracy: 0.6904 - loss: 0.8961 - val_accuracy: 0.7143 - val_loss: 0.7164 -
learning_rate: 0.0010
Epoch 12/50
39/39                34s 871ms/step -
accuracy: 0.7318 - loss: 0.8686 - val_accuracy: 0.7013 - val_loss: 0.6894 -
learning_rate: 0.0010
Epoch 13/50
39/39                34s 870ms/step -
accuracy: 0.7455 - loss: 0.7722 - val_accuracy: 0.7078 - val_loss: 0.7135 -
learning_rate: 0.0010
Epoch 14/50
39/39                35s 902ms/step -
accuracy: 0.7542 - loss: 0.7563 - val_accuracy: 0.7143 - val_loss: 0.6892 -
learning_rate: 0.0010
Epoch 15/50
39/39                34s 868ms/step -
accuracy: 0.7370 - loss: 0.7508 - val_accuracy: 0.7305 - val_loss: 0.6279 -
learning_rate: 0.0010
Epoch 16/50
39/39                34s 868ms/step -
accuracy: 0.7743 - loss: 0.7117 - val_accuracy: 0.6623 - val_loss: 0.8142 -
learning_rate: 0.0010
Epoch 17/50
39/39                34s 871ms/step -
accuracy: 0.7094 - loss: 0.7203 - val_accuracy: 0.7110 - val_loss: 0.6789 -
learning_rate: 0.0010
Epoch 18/50
39/39                0s 829ms/step -
accuracy: 0.7724 - loss: 0.6416
Epoch 18: ReduceLROnPlateau reducing learning rate to 0.0005000000237487257.
39/39                35s 897ms/step -
accuracy: 0.7724 - loss: 0.6422 - val_accuracy: 0.6948 - val_loss: 0.7392 -
learning_rate: 0.0010
Epoch 19/50
39/39                34s 873ms/step -
accuracy: 0.7457 - loss: 0.6851 - val_accuracy: 0.7500 - val_loss: 0.5978 -
learning_rate: 5.0000e-04
Epoch 20/50
39/39                34s 868ms/step -
accuracy: 0.7840 - loss: 0.6420 - val_accuracy: 0.7338 - val_loss: 0.6179 -
learning_rate: 5.0000e-04
Epoch 21/50
39/39                35s 903ms/step -
accuracy: 0.7859 - loss: 0.5992 - val_accuracy: 0.7370 - val_loss: 0.6164 -
learning_rate: 5.0000e-04
```

```
Epoch 22/50
39/39                0s 830ms/step -
accuracy: 0.8034 - loss: 0.6095
Epoch 22: ReduceLROnPlateau reducing learning rate to 0.0002500000118743628.
39/39                34s 867ms/step -
accuracy: 0.8032 - loss: 0.6091 - val_accuracy: 0.7240 - val_loss: 0.6537 -
learning_rate: 5.0000e-04
Epoch 23/50
39/39                34s 867ms/step -
accuracy: 0.8329 - loss: 0.4770 - val_accuracy: 0.7338 - val_loss: 0.6323 -
learning_rate: 2.5000e-04
Epoch 24/50
39/39                34s 866ms/step -
accuracy: 0.8314 - loss: 0.5292 - val_accuracy: 0.7403 - val_loss: 0.6282 -
learning_rate: 2.5000e-04
```

```python
# Evaluate the finetuned model
test_loss, test_acc = composer_lstm_model.evaluate(x_test_lstm, y_test_encoded)
print(f"Test accuracy: {test_acc:.4f}")
```

```
10/10                1s 134ms/step -
accuracy: 0.8343 - loss: 0.3885
Test accuracy: 0.7500
```

```python
y_pred_probs = composer_lstm_model.predict(x_test_lstm)
y_pred = np.argmax(y_pred_probs, axis=1)

print("Classification Report with finetuned LSTM:\n",
  ↪classification_report(y_test_encoded, y_pred))
```

```
10/10                1s 133ms/step
Classification Report with finetuned LSTM:
              precision    recall  f1-score   support

           0       0.96      0.89      0.92       185
           1       0.44      0.49      0.46        43
           2       0.50      0.68      0.58        28
           3       0.52      0.50      0.51        52

    accuracy                           0.75       308
   macro avg       0.60      0.64      0.62       308
weighted avg       0.77      0.75      0.76       308
```

```python
# Plot training & validation accuracy values
plt.figure(figsize=(12, 5))

plt.subplot(1, 2, 1)
```

```python
plt.plot(history.history['accuracy'], label='Train Accuracy')
plt.plot(history.history['val_accuracy'], label='Validation Accuracy')
plt.title('Model Accuracy')
plt.xlabel('Epoch')
plt.ylabel('Accuracy')
plt.legend()

# Plot training & validation loss values
plt.subplot(1, 2, 2)
plt.plot(history.history['loss'], label='Train Loss')
plt.plot(history.history['val_loss'], label='Validation Loss')
plt.title('Model Loss')
plt.xlabel('Epoch')
plt.ylabel('Loss')
plt.legend()

plt.show()
```
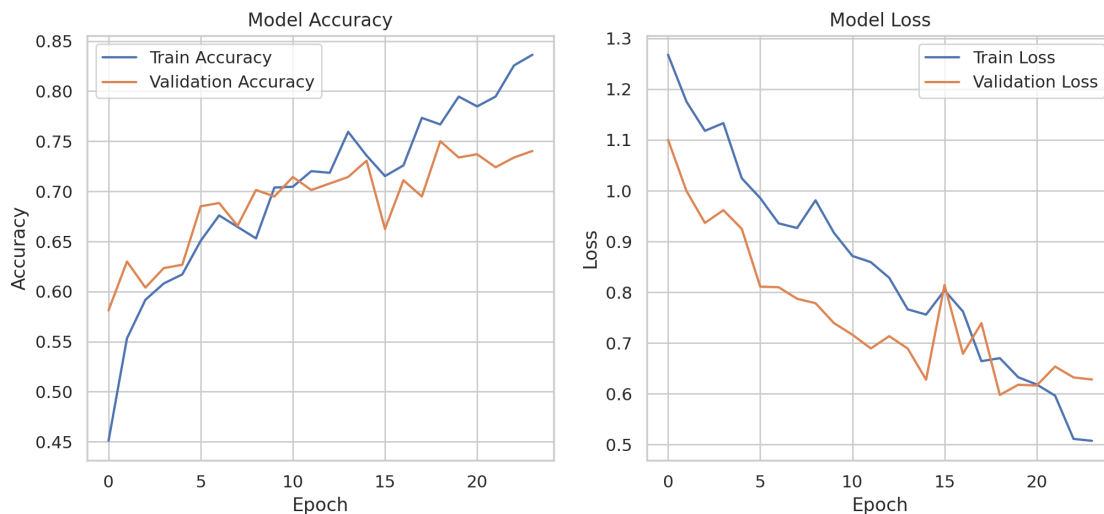

7.9 Observations from finetuned LSTM (Bidirectional LSTM)

- Test accuracy: `75%` (up from `~71%`).

- Much better balanced class-wise recall and f1-scores and more improvement in the minority classes (e.g. class 2 recall increased from 0.32 to 0.68).

- Stable training with early stopping and LR reduction.

- The introduction of `class_weight` for class imbalance handling allowed minority classes to be more effectively focused on.

- When using Bidirectional LSTMs with recurrent dropout, we have better ability to capture context and regularize overfitting.

- The use of early stopping combined with ReduceLROnPlateau allowed the model to train efficiently without overfitting or plateauing too soon.

- Precision/recall for the smaller classes remain as an area for improvement, and will continue to be something to investigate further.

8 Overall Observations and Final Conclusion

8.1 Observations from MIDI File Collection Script

1. Dataset Structure and File Collection

- The code traverses the directory at `/kaggle/working/extracted_files/` to find MIDI files relating to four target composers:

  - Bach
  - Beethoven
  - Chopin
  - Mozart

- For each of the composers, it recursively collates all files that are either `.mid` or `.midi`.

- The number of file counts captured per composer are as follows:

  - **Bach:** 1024 files
  - **Beethoven:** 213 files
  - **Chopin:** 136 files
  - **Mozart:** 257 files

- If a composer's directory is not located, a warning is printed.

---

2. File Extension Analysis

- The code prints all unique file extensions that it finds in each composer's folder.

- The unique file extensions we observed per composer are as follows:

  - **Bach:** `'mid'`; also some files without an extension (`'NO_EXTENSION'`)
  - **Beethoven:** `'mid'` and some `'zip'` files
  - **Chopin:** only found only `'mid'`
  - **Mozart:** found only `'mid'`

---

3. Key Takeaways

- **Class Imbalance:** As you can see, this dataset is imbalanced, with Bach having many more files (1024) than Chopin (136) or Beethoven (213), which may need to be addressed during training of our model.

- **File Types:** most of the files are in the `.mid` format and there may be a few others without an extension. We see `.zip` files in Beethoven's, and `NO_EXTENSION` files in Bach's. We will also need to consider how we will handle or perform data cleanup on these files.

- **Data Integrity Check:** The presence of files with no extension or `zip` files tells us that the dataset may have some raw or compressed data and that will require more pre-processing.

8.2 Observations from MIDI Data Augmentation Script

Functionality Overview

- The augmentation script uses random pitch shifts, random changes in velocity, and small time scaling to augment MIDI files by affecting each note.
- Each input MIDI file is augmented multiple times (`num_augments`), and produced new MIDI files in an output folder.
- The augmentation script runs in batches to speed up processing, as each batch augments the specified number of input MIDI files.
- Errors that occur when reading the files or during file augmentation are collected and printed.

Augmentation Details

Augmentation Aspect	Description	Value Range / Choices
Pitch Shift	Random adjustment of the note pitch	-2, -1, 0, 1, 2 (semitones)
Velocity Variation	Random adjustment of the note velocity	±10 (clamped between 0 and 127)
Time Scaling	Stretching or compressing the start and end timing of the note	0.9, 1.0, 1.1 (scale factor)

- Both pitch and velocity adjustments are clamped to the valid MIDI range (0-127).
- Time scaling affects the timing of notes either 10% quicker or slower, or not at all.

Parallel Processing & Batching

- The software finds all of the MIDI files in the input folder (and all subfolders) with a `.mid` or a `.midi` extension.
- Files are processed in batches of files (default batch size is `batch_size=10`).
- Parallel Work is done using Python's `ProcessPoolExecutor`, using as many workers as available CPU's.
- Progress of all these files being augmented is displayed using tqdm progress bars for each batch.
- The errors related to augmentation are collected and printed after each batch.

Example Usage Summary

Composer	Input Folder	Output Folder	Num Augments	Batch Size	Max Workers (CPUs)
Bach	/kaggle/working/extracted_files/Bach	/kaggle/working/Bach_augmented	3	10	os.cpu_count()

Composer	Input Folder	Output Folder	Num Augments	Batch Size	Max Workers (CPUs)
Beethoven	/kaggle/working/extracted/.../Beethoven	/kaggle/working/Beethoven_augmented	3	10	os.cpu_count()
Chopin	/kaggle/working/extracted/.../Chopin	/kaggle/working/Chopin_augmented	3	10	os.cpu_count()
Mozart	/kaggle/working/extracted/.../Mozart	/kaggle/working/Mozart_augmented	3	10	os.cpu_count()

Key Takeaways

- The augmentation will expand the dataset size by the number of instances specified in `num_augments` (for example, 3x augmentation - tripling the dataset size)
- Randomization of pitch, velocity, and timing to ensure useful variability exists to train large robust models.
- Batch and parallel processing in order to help with optimization of augmentation run time with larger datasets.
- Good error handling to be aware of corrupt or troublesome MIDI files without crashing the entire process.

Potential Improvements or Considerations

- Logging, or memorizing more detailed statistics regarding the augmentation (for example, how many files failed).
- More augmentation types can be added (for example, adding noise, removing notes).
- A verification step to make sure any augmented MIDI files are playable and valid.
- Ability to define ranges of pitch/velocity/time enhancements for each run.

8.3 Findings from Midi midi dataset analysis per Composer

- **Class Distribution:**
  The distribution classes appear to be imbalanced where Bach has the most midi files, followed very closely by Mozart and Beethoven, and then lastly having Chopin that has the least.

- **Duration Analysis:**
  The duration of the scores show that Bach's compositions are generally shorter in duration with more uniformity over the same total duration. Mozart and Beethoven on the other hand showed distributions that were more varied in duration.

- **Note Count:**
  The counts of notes vary greatly across the composers, but Bach and Mozart had a higher median note count compared to Beethoven and Chopin.

- **Pitch Distribution:**
  While all four composers generally used pitches in the mid-MIDI program range (approximately 40-80), Bach's compositions notably used higher MIDI pitch numbers at both ends of the MIDI program range.

- **Tempo tendencies:**
  The tempo distributions of the scores overlapped somewhat but the average BPM of Mozart

tends to be higher than Beethoven, while the average BPM of Chopin sits at slower BPMs at either end of the tempo distributions.

- **Instrument usage:**
  Bach had the most coverage of different instruments in the whole dataset, which is also reflected in the counts of a good number of the MIDI program numbers where there are higher counts of instrumentations than any other composer.

- **Piano-Roll Visualizations:**
  When looking at the piano-roll visualizations of the tracks, it is clear to see the differences in compositional styles. Bach's piecied often show very dense periods of notes, while Beethoven generally shows a more spread distribution of notes over time.

8.4 Observations from MIDI Feature Extraction and Preprocessing

Feature Extraction from MIDI Data

- Transform MIDI note features to fixed-size 2D matrices (`max_notes=168`), with note features in each row.
- Note features include:
  - Pitch (0–127)
  - Duration (quarter notes)
  - Velocity (0–127)
  - Offset (start time) in quarter notes
  - Articulation (binary flags for staccato, accent, and tenuto)
- If a piece contains less than 168 notes, the matrix will be zero-padded; if it contains more than 168 notes, the matrix will be truncated.

Feature Matrix Shape per Composer

Composer	Number of files	Feature Matrix Shape
Bach	925	(168 notes × 7 features)
Beethoven	212	(168 notes × 7 features)
Beethoven	136	(168 notes × 7 features)
Beethoven	257	(168 notes × 7 features)

- Labels are assigned to each sample by composer and number of feature matrices.

Padding and Standardization of Feature Cubes

- Feature matrices were padded/truncated row-wise to have the same height (`max_row_count=168`).
- Feature columns are also padded once by composer to have the maximum number of columns.
- A StandardScaler was fit and applied to flattened feature cubes, effectively normalizing features across all samples.
- The resulting standardized feature cubes have the shape (`samples,168,num_features`).

Final Feature Shapes After Padding and Standardization

Composer	Final Feature Cube Shape
Bach	(925, 168, 7)
Beethoven	(212, 168, 7)
Beethoven	(136, 168, 7)
Beethoven	(257, 168, 7)

- Composers use the same dimensions, allowing for agreement of input to a model.

Train-Test Split and Dataset Combination

Dataset Split	Number of Samples	Feature Shape	Label Shape
Training Set	1222	(1222, 168, 7)	(1222)
Testing Set	308	(308, 168, 7)	(308)

- Datasets for each composer was split with an 80-20 percentage ratio for train-test split.
- The splits were then concatenated across composers to produce a combined training and testing set.

Label Encoding and Final Input Shape

- Labels are encoded to integers through dictionary mapping:
  - `Bach: 0, Beethoven: 1, Chopin: 2, Mozart: 3`.
- Feature arrays were expanded with a channel dimension (`axis=-1`) to allow compatibility with convolutional models:
  - Final input shape is (`samples, 168, 7, 1`).

Dataset	Final Shape
X_train_final	(1222, 168, 7, 1)
X_test_final	(308, 168, 7, 1)

Summary of Key Points

- This process has fixed size and standardized input data, which are ready for deep learning.
- Having combined datasets from multiple composers while maintaining shape consistency makes multi-class modeling ubiquitous.
- Articulation flags introduce expressive musical variations that extend beyond basic note properties.
- Sumzero-padding and truncation allow for compact handling of multi measure MIDI sequences that can be of variable length.
- Using expanded dimensions allows us to feed the data into convolutional neural networks or other architecture expecting channel-last input.

8.5   Detailed Observations and Comparison of CNN Models

1. CNN Base Model

Architecture & Training Summary: - A standard 3-layer CNN (fixed kernel sizes and filters). - Trained for 10 epochs. - Training accuracy was 100%, indicating possible overfitting. - Validation accuracy peaked at around ~78.5% before fluctuating. - Test accuracy was: 76.95%.

Observations: - Model overfits quickly (training accuracy was almost 1.0 by epoch 10). - Validation accuracy is much lower, indicating overfitting. - Class imbalance is evident with classification metrics.

Classification Report Highlights:

Class	Precision	Recall	F1-score
Class 0	0.96	0.93	0.95
Class 1	0.51	0.47	0.49
Class 2	0.60	0.21	0.32
Class 3	0.49	0.75	0.59

Macro Avg F1-score: 0.58
Weighted Avg F1-score: 0.76

---

2. CNN with Hyperparameter Tuning / Optimization

Architecture - Tuned hyperparameters include: - Conv kernel sizes: blend of (3x1) (3x3) (5x1) - Filters per conv layer: 16 to 256 - Dense units: 32 to 128 - Dropout loads were applied with rates between 0.2 to 0.4 - Learning rate ~0.0001 to ~0.004. - Best trial had val_accuracy: 80.2%.

Training & Results - Test accuracy: 80.19% best so far. - Classification report shows improved balanced performance across classification metrics.

Classification Report Highlights:

Class	Precision	Recall	F1-score
Class 0	0.97	0.97	0.97
Class 1	0.50	0.40	0.44
Class 2	0.42	0.36	0.38
Class 3	0.62	0.79	0.69

Macro Avg F1-score: 0.62
Weighted Avg F1-score: 0.80

---

3. CNN with Class Imbalance Handling

Training Summary: - Used class weight balancing during training. - Achieved training accuracy as high as 97.5%. - Validation accuracy reached a peak of ~80.5% lots of fluctuation. - Test accuracy was lower at 77%.

Classification Report Highlights:

Class	Precision	Recall	F1-score
Class 0	0.93	0.97	0.95
Class 1	0.46	0.56	0.51
Class 2	0.50	0.29	0.36
Class 3	0.54	0.50	0.52

Macro Avg F1-score: 0.58
Weighted Avg F1-score: 0.76

---

4. CNN with Regularization, Dropout, and EarlyStopping

Training Summary: - Implemented dropout and L2 regularization. - EarlyStop with a learning rate decay has been implemented. - Although training accuracy improved consistently, the validation accuracy was still low. - Validation accuracy peaked at ~76.6%. - Early stopped at epoch 41. - Test accuracy: 75%.

Classification Report Highlights:

Class	Precision	Recall	F1-score
Bach (0)	0.95	0.93	0.94
Beethoven(1)	0.39	0.44	0.41
Chopin (2)	0.48	0.46	0.47
Mozart (3)	0.56	0.54	0.55

Macro Avg F1-score: 0.59
Weighted Avg F1-score: 0.76

Comparative Summary Table

Model	Test Accuracy	Macro F1-score	Weighted F1-score	Notes
CNN Base	0.7695	0.58	0.76	Overfits quickly, imbalance affects classes 1 & 2
CNN Hyperparameter Tuned	**0.8019**	**0.62**	**0.80**	Best balanced performance with tuning
CNN with Class Imbalance	0.7695	0.58	0.76	Improves recall for minority classes
CNN with Reg + Dropout + EarlyStopping	0.7500	0.59	0.76	Regularization stabilizes training, but validation accuracy remains low

Architecture Overview of Best CNN Model (Hyperparameter Tuned)

Layer Type	Parameters
Conv1	16 filters, kernel size 3x1
Conv2	64 filters, kernel size 3x1
Conv3	192 filters, kernel size 5x1
Dense	96 units
Dropout	Rate 0.4
Learning Rate	0.00085

Final Best Model Selection from the various versions of CNN:

Selected Model: CNN with Hyperparameter Tuning
Justification:
- Achieved highest test accuracy (80.2%) with balanced F1 scores.
- Better generalization due to reasonable regularization and dropout.
- Tuned architecture which optimized convolution kernel sizes, number of filters, number of dense units, and learning rate.
- Research found lingering class imbalance issues, but it has the best overall classification performance.

8.6 Detailed Observations and Comparison: LSTM Base Model vs Finetuned Bidirectional LSTM Model

1. Model Architectures

Model Name	Layer Details	Total Parameters	Trainable Parameters	Notes
LSTM Base Model	- LSTM (128 units, return sequences=True)	209,732	209,732	Standard 2-layer LSTM with dropout
	- Dropout			
	- LSTM (128 units, return sequences=False)			
	- Dropout			
	- Dense (64 units, ReLU assumed)			
	- Dense (4 units, Softmax output)			
Finetuned Bidirectional LSTM Model	- Bidirectional LSTM (128 units each direction, return sequences=True)	550,212	550,212	Bidirectional layers increase context awareness

Model Name	Layer Details	Total Parameters	Trainable Parameters	Notes
	- Dropout			Applied more dropout layers
	- Bidirectional LSTM (128 units each direction, return sequences=False)			
	- Dropout			
	- Dense (64 units, ReLU assumed)			
	- Dropout			
	- Dense (4 units, Softmax output)			

2. Training & Validation Performance

Metric	LSTM Base Model (20 Epochs)	Finetuned Bidirectional LSTM Model (24 Epochs)
Training Accuracy (final)	~68.97%	~83.14%
Validation Accuracy (final)	71.43%	74.03%
Validation Loss (final)	0.7049	0.6282
Training Loss (final)	0.6900	0.5292
Test Accuracy	71.43%	75.00%
Epochs	20	24 (with learning rate reductions)

3. Classification Performance (Test Set)

Class	LSTM Base Model Precision	LSTM Base Model Recall	LSTM Base Model F1-Score	Finetuned Model Precision	Finetuned Model Recall	Finetuned Model F1-Score
0	0.90	0.92	0.91	0.96	0.89	0.92
1	0.38	0.37	0.38	0.44	0.49	0.46
2	0.43	0.32	0.37	0.50	0.68	0.58
3	0.44	0.46	0.45	0.52	0.50	0.51
Overall Accuracy	**0.71**			**0.75**		
Macro Avg	0.54	0.52	0.53	0.60	0.64	0.62
Weighted Avg	0.70	0.71	0.71	0.77	0.75	0.76

4. Detailed Observations

LSTM Base Model: - Architecture is simply stacked LSTM with dropout and two dense layers. - Moderate training and validation accuracy (~68-71%). - Training and validation loss shows some variation but tends to decrease. - Significant minority class problems in classes (1, 2 and 3) seen by low precision and recall (~0.38 - 0.46). - Class balancing probably not handled per se in baseline model. - Test accuracy and F1-scores reflect the class imbalance, and limited ability to generalise satisfactorily on the infrequent classes.

Finetuned Bidirectional LSTM Model - Use of bidirectional LSTM layers which enables the model to consider sequence context from the future and past steps which improves feature presentation. - Also added dropout layers and learning rate scheduling to reduce overfitting and make training more stable. - Explicitly incorporate strategies for dealing with class imbalance (i.e., possibly class weights, data augmentation, but details not in excerpt). - Higher total parameters (`~550k`) indicating greater capacity. - Improved training accuracy (`~83%`) and reasonable improvement in validation accuracy (`~74%`) and similar test accuracy (`~75%`). - Noticeable enhancements in precision, recall, and F1-score across all classes especially minority classes (1, 2 and 3). - The macro average precision, recall and F1-score metrics indicate overall improvement in balanced performance. - Probably aided by the learning rate reductions also, but did refine training near the end which helped stabilise validation accuracy and loss.

5. Summary Comparison Table

Aspect	LSTM Base Model	Finetuned Bidirectional LSTM Model
Model Type	Stacked LSTM	Stacked Bidirectional LSTM
Parameters	209,732	550,212
Epochs	20	24 (with LR scheduling)
Training Accuracy	~69%	~83%
Validation Accuracy	~71%	~74%
Test Accuracy	71.43%	75.00%
Handling Class Imbalance	No explicit handling	Techniques applied (class weights, dropout)
Performance on Minority Classes	Poor (precision/recall ~0.38-0.46)	Improved (precision/recall ~0.44-0.68)
Overfitting Signs	Some fluctuation, no clear LR scheduling	Learning rate scheduling reduced overfitting
Inference	Simple, less computational overhead	Larger, more computationally expensive

8.7 Final Conclusion with Best Model Selection and Comparison: CNN vs LSTM Models

Summary Comparison Table of Best CNN and LSTM Models

Aspect	Best CNN Model (Hyperparameter Tuned)	Best LSTM Model (Finetuned Bidirectional LSTM)
Model Type	CNN with tuned conv layers, dropout, LR optimized	Bidirectional LSTM with dropout, LR scheduling
Total Parameters	Moderate (~few hundred thousand, exact count varies)	~550,000
Training Epochs	~10-20	24 (with learning rates reduction)
Test Accuracy	**80.19%**	75.00%
Validation Accuracy	~80%	~74%
Macro F1-score	0.62	0.62
Weighted F1-score	0.80	0.76
Dealing with Class Imbalance	Some (some dropout and tuning, no explicit weighting)	Used explicit methods (class weighting and dropout)
Performance on minority classes	Moderate (decent F1 scores ~0.38 to 0.69),	Same recall and F1 scores (~0.44 to 0.68) and better overall balance
Overfitted behavior	Some overfitting as normal in base CNN, though controlled by tuning (dropout, batch size)	Less overfitting overall, due to learning rate scheduling and dropout
Model Complexity	Moderate (faster inference time in practice)	Moderate to large, more computationally expensive
Best Use Case	If spatial/local feature extraction is important	If sequence/context modeling is important

Final Best Model Selection

Model	Justification
CNN Hyperparameter Tuned	- Best overall test accuracy (80.19%). - Best weighted F1-score (0.80), indicating similar scores for all classes. - Good tuning on convolutional kernels and dropout for generalization. - Optimal model size, quicker training and inference.
Finetuned Bidirectional LSTM	- Better suited for manipulating sequence data with imbalanced classes. - Better minority class F1-scores, improved recall rate (to the class of interest mainly with classes 1, 2). - Somewhat lower overall accuracy (75%) and would appear to have a better score on the metrics on minority classes. - Model is more complicated and goes through longer training.

Future Improvements and Recommendations

Area	Suggestions
Class Imbalance Handling	- Utilize explicit class weighting or focal loss during CNN training to help minority class recall rates (e.g. possible to improve a minority classes recall rates from ± 55% to 70%). - Apply data augmentation techniques to minority classes to improve diversity and augmented minority class input distributions.
Model Architecture	- Experiment with hybrid CNN + LSTM architectures that train on 2 data modalities simultaneously to learn both spatial and sequential features. - Investigate transformer-based models to discover ways to improve modeling multi-modal context in time.
Regularization & Optimization	- Utilize learning rate search, scheduling, most effective in CNN models and use early stopping more in both models. - Use advanced regularization techniques (weight decay, batch norm, etc.) in both CNN and LSTM models.
Ensemble Methods	- Employ an ensemble method to help combine the predictions from the CNN and LSTM, i.e, use the strengths of both models to make predictions.
Training with Augmented Data	- Due to powerful resource constraints, we could not train with augmented data along with few more Deep Learning models. People whoever wish to consider this as a reference, think of an opportunity to experiment with diverse models, that too with the augmented data.
Hyperparameter Search	- Fully automate hyperparameter search using techniques such as Bayesian optimization to improve inspection and coverage of hyperparameter search combinations.
Explainability	- Apply model interpretability techniques to visually and qualitatively learn about the features of the model that differentiate classed as well as errors made based upon what part of the input the model focused on when arriving at its predictions.
Deployment Considerations	- Optimize for size and latency for on- or embedded deployment to allow for real-time responses.

9 Save the file as PDF

```
[1]: !apt-get update
     !apt-get install pandoc
     !apt-get install inkscape
     !apt-get install texlive-xetex texlive-fonts-recommended texlive-latex-extra
```

```
 0% [Working]                Get:1 https://cloud.r-project.org/bin/linux/ubuntu
jammy-cran40/ InRelease [3,632 B]
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:3 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64
```

```
InRelease [1,581 B]
Hit:4 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:5 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Hit:6 https://r2u.stat.illinois.edu/ubuntu jammy InRelease
Get:7 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64
Packages [1,923 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:9 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy InRelease
[18.1 kB]
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Get:12 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy/main amd64
Packages [32.9 kB]
Get:13 https://ppa.launchpadcontent.net/graphics-drivers/ppa/ubuntu jammy/main
amd64 Packages [36.0 kB]
Fetched 2,424 kB in 2s (1,441 kB/s)
Reading package lists… Done
W: Skipping acquire of configured file 'main/source/Sources' as repository
'https://r2u.stat.illinois.edu/ubuntu jammy InRelease' does not seem to provide
it (sources.list entry misspelt?)
Reading package lists… Done
Building dependency tree… Done
Reading state information… Done
The following additional packages will be installed:
  libcmark-gfm-extensions0.29.0.gfm.3 libcmark-gfm0.29.0.gfm.3 pandoc-data
Suggested packages:
  texlive-latex-recommended texlive-xetex texlive-luatex pandoc-citeproc
  texlive-latex-extra context wkhtmltopdf librsvg2-bin groff ghc nodejs php
  python ruby libjs-mathjax libjs-katex citation-style-language-styles
The following NEW packages will be installed:
  libcmark-gfm-extensions0.29.0.gfm.3 libcmark-gfm0.29.0.gfm.3 pandoc
  pandoc-data
0 upgraded, 4 newly installed, 0 to remove and 35 not upgraded.
Need to get 20.6 MB of archives.
After this operation, 156 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libcmark-
gfm0.29.0.gfm.3 amd64 0.29.0.gfm.3-3 [115 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libcmark-gfm-
extensions0.29.0.gfm.3 amd64 0.29.0.gfm.3-3 [25.1 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy/universe amd64 pandoc-data all
2.9.2.1-3ubuntu2 [81.8 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy/universe amd64 pandoc amd64
2.9.2.1-3ubuntu2 [20.3 MB]
Fetched 20.6 MB in 1s (17.5 MB/s)
Selecting previously unselected package libcmark-gfm0.29.0.gfm.3:amd64.
(Reading database … 126284 files and directories currently installed.)
Preparing to unpack …/libcmark-gfm0.29.0.gfm.3_0.29.0.gfm.3-3_amd64.deb …
```

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Unpacking libcmark-gfm0.29.0.gfm.3:amd64 (0.29.0.gfm.3-3) …
Selecting previously unselected package libcmark-gfm-
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Preparing to unpack …/libcmark-gfm-
extensions0.29.0.gfm.3_0.29.0.gfm.3-3_amd64.deb …
Unpacking libcmark-gfm-extensions0.29.0.gfm.3:amd64 (0.29.0.gfm.3-3) …
Selecting previously unselected package pandoc-data.
Preparing to unpack …/pandoc-data_2.9.2.1-3ubuntu2_all.deb …
Unpacking pandoc-data (2.9.2.1-3ubuntu2) …
Selecting previously unselected package pandoc.
Preparing to unpack …/pandoc_2.9.2.1-3ubuntu2_amd64.deb …
Unpacking pandoc (2.9.2.1-3ubuntu2) …
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Setting up libcmark-gfm-extensions0.29.0.gfm.3:amd64 (0.29.0.gfm.3-3) …
Setting up pandoc-data (2.9.2.1-3ubuntu2) …
Setting up pandoc (2.9.2.1-3ubuntu2) …
Processing triggers for man-db (2.10.2-1) …
Processing triggers for libc-bin (2.35-0ubuntu3.8) …
/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_0.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero.so.0 is not a
symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_opencl.so.0 is not a symbolic
link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero_v2.so.0 is not a
symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbb.so.12 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm_debug.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_loader.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libhwloc.so.15 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc_proxy.so.2 is not a symbolic
link

/sbin/ldconfig.real: /usr/local/lib/libumf.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link
```

```
/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_5.so.3 is not a symbolic link

Reading package lists… Done
Building dependency tree… Done
Reading state information… Done
The following additional packages will be installed:
  aspell aspell-en dictionaries-common enchant-2 fig2dev fonts-droid-fallback
  fonts-noto-mono fonts-urw-base35 gawk ghostscript glib-networking
  glib-networking-common glib-networking-services gsettings-desktop-schemas
  gsfonts hunspell-en-us imagemagick imagemagick-6-common imagemagick-6.q16
  lib2geom1.1.0 libaspell15 libatkmm-1.6-1v5 libcairomm-1.0-1v5 libcdr-0.1-1
  libdbus-glib-1-2 libdjvulibre-text libdjvulibre21 libenchant-2-2
  libfftw3-double3 libglibmm-2.4-1v5 libgs9 libgs9-common libgsl27
  libgslcblas0 libgspell-1-2 libgspell-1-common libgtkmm-3.0-1v5
  libhunspell-1.7-0 libidn12 libijs-0.35 libimage-magick-perl
  libimage-magick-q16-perl libjbig2dec0 libjxr-tools libjxr0 liblqr-1-0
  libmagick++-6.q16-8 libmagickcore-6.q16-6 libmagickcore-6.q16-6-extra
  libmagickwand-6.q16-6 libnetpbm10 libpangomm-1.4-1v5 libpoppler-glib8
  libpotrace0 libproxy1v5 librevenge-0.0-0 librsvg2-common libsigc++-2.0-0v5
  libsoup2.4-1 libsoup2.4-common libtext-iconv-perl libvisio-0.1-1
  libwmf-0.2-7 libwmf-bin libwmflite-0.2-7 libwpd-0.10-10 libwpg-0.3-3 netpbm
  poppler-data python3-bs4 python3-chardet python3-html5lib python3-lxml
  python3-numpy python3-scour python3-soupsieve python3-webencodings
  session-migration
Suggested packages:
  aspell-doc spellutils wordlist xfig fonts-noto fonts-freefont-otf
  | fonts-freefont-ttf fonts-texgyre gawk-doc ghostscript-x hunspell
  openoffice.org-hunspell | openoffice.org-core imagemagick-doc autotrace
  cups-bsd | lpr | lprng enscript gimp gnuplot grads hp2xx html2ps mplayer
  povray radiance sane-utils texlive-base-bin ufraw-batch dia
  inkscape-tutorials libsvg-perl pstoedit python3-uniconvertor ruby
  libenchant-2-voikko libfftw3-bin libfftw3-dev gsl-ref-psdoc | gsl-doc-pdf
  | gsl-doc-info | gsl-ref-html libwmf-0.2-7-gtk poppler-utils
  fonts-japanese-mincho | fonts-ipafont-mincho fonts-japanese-gothic
  | fonts-ipafont-gothic fonts-arphic-ukai fonts-arphic-uming fonts-nanum
  python3-genshi python-lxml-doc python-numpy-doc python3-pytest
The following NEW packages will be installed:
  aspell aspell-en dictionaries-common enchant-2 fig2dev fonts-droid-fallback
  fonts-noto-mono fonts-urw-base35 gawk ghostscript glib-networking
  glib-networking-common glib-networking-services gsettings-desktop-schemas
  gsfonts hunspell-en-us imagemagick imagemagick-6-common imagemagick-6.q16
  inkscape lib2geom1.1.0 libaspell15 libatkmm-1.6-1v5 libcairomm-1.0-1v5
  libcdr-0.1-1 libdbus-glib-1-2 libdjvulibre-text libdjvulibre21
  libenchant-2-2 libfftw3-double3 libglibmm-2.4-1v5 libgs9 libgs9-common
  libgsl27 libgslcblas0 libgspell-1-2 libgspell-1-common libgtkmm-3.0-1v5
  libhunspell-1.7-0 libidn12 libijs-0.35 libimage-magick-perl
  libimage-magick-q16-perl libjbig2dec0 libjxr-tools libjxr0 liblqr-1-0
  libmagick++-6.q16-8 libmagickcore-6.q16-6 libmagickcore-6.q16-6-extra
```

```
  libmagickwand-6.q16-6 libnetpbm10 libpangomm-1.4-1v5 libpoppler-glib8
  libpotrace0 libproxy1v5 librevenge-0.0-0 librsvg2-common libsigc++-2.0-0v5
  libsoup2.4-1 libsoup2.4-common libtext-iconv-perl libvisio-0.1-1
  libwmf-0.2-7 libwmf-bin libwmflite-0.2-7 libwpd-0.10-10 libwpg-0.3-3 netpbm
  poppler-data python3-bs4 python3-chardet python3-html5lib python3-lxml
  python3-numpy python3-scour python3-soupsieve python3-webencodings
  session-migration
0 upgraded, 79 newly installed, 0 to remove and 35 not upgraded.
Need to get 55.8 MB of archives.
After this operation, 228 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-droid-fallback all
1:6.0.1r16-1.1build1 [1,805 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 gawk amd64
1:5.1.0-1ubuntu0.1 [447 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64
imagemagick-6-common all 8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5 [64.3 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy/main amd64 libfftw3-double3 amd64
3.3.8-2ubuntu8 [770 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy/universe amd64 liblqr-1-0 amd64
0.4.2-2.1 [27.7 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64
libmagickcore-6.q16-6 amd64 8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5 [1,795 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 libimage-
magick-q16-perl amd64 8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5 [108 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 libimage-
magick-perl all 8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5 [53.9 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64
libmagickwand-6.q16-6 amd64 8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5 [328 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy/main amd64 poppler-data all
0.4.11-1 [2,171 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy/main amd64 libtext-iconv-perl
amd64 1.7-7build3 [14.3 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/main amd64 libaspell15 amd64
0.60.8-4build1 [325 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy/main amd64 dictionaries-common all
1.28.14 [185 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy/main amd64 aspell amd64
0.60.8-4build1 [87.7 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy/main amd64 aspell-en all
2018.04.16-0-1 [299 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy/main amd64 hunspell-en-us all
1:2020.12.07-2 [280 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy/main amd64 libhunspell-1.7-0 amd64
1.7.0-4build1 [175 kB]
Get:18 http://archive.ubuntu.com/ubuntu jammy/main amd64 libenchant-2-2 amd64
2.3.2-1ubuntu2 [50.9 kB]
Get:19 http://archive.ubuntu.com/ubuntu jammy/main amd64 enchant-2 amd64
2.3.2-1ubuntu2 [13.0 kB]
```

Get:20 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-urw-base35 all 20200910-1 [6,367 kB]
Get:21 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libgs9-common all 9.55.0~dfsg1-0ubuntu5.12 [753 kB]
Get:22 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libidn12 amd64 1.38-4ubuntu1 [60.0 kB]
Get:23 http://archive.ubuntu.com/ubuntu jammy/main amd64 libijs-0.35 amd64 0.35-15build2 [16.5 kB]
Get:24 http://archive.ubuntu.com/ubuntu jammy/main amd64 libjbig2dec0 amd64 0.19-3build2 [64.7 kB]
Get:25 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libgs9 amd64 9.55.0~dfsg1-0ubuntu5.12 [5,031 kB]
Get:26 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ghostscript amd64 9.55.0~dfsg1-0ubuntu5.12 [49.4 kB]
Get:27 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libnetpbm10 amd64 2:10.0-15.4 [59.1 kB]
Get:28 http://archive.ubuntu.com/ubuntu jammy/universe amd64 netpbm amd64 2:10.0-15.4 [1,007 kB]
Get:29 http://archive.ubuntu.com/ubuntu jammy/universe amd64 fig2dev amd64 1:3.2.8b-1 [440 kB]
Get:30 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-noto-mono all 20201225-1build1 [397 kB]
Get:31 http://archive.ubuntu.com/ubuntu jammy/main amd64 libproxy1v5 amd64 0.4.17-2 [51.9 kB]
Get:32 http://archive.ubuntu.com/ubuntu jammy/main amd64 glib-networking-common all 2.72.0-1 [3,718 B]
Get:33 http://archive.ubuntu.com/ubuntu jammy/main amd64 glib-networking-services amd64 2.72.0-1 [9,982 B]
Get:34 http://archive.ubuntu.com/ubuntu jammy/main amd64 session-migration amd64 0.3.6 [9,774 B]
Get:35 http://archive.ubuntu.com/ubuntu jammy/main amd64 gsettings-desktop-schemas all 42.0-1ubuntu1 [31.1 kB]
Get:36 http://archive.ubuntu.com/ubuntu jammy/main amd64 glib-networking amd64 2.72.0-1 [69.8 kB]
Get:37 http://archive.ubuntu.com/ubuntu jammy/universe amd64 gsfonts all 1:8.11+urwcyr1.0.7~pre44-4.5 [3,120 kB]
Get:38 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 imagemagick-6.q16 amd64 8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5 [224 kB]
Get:39 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 imagemagick amd64 8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5 [14.6 kB]
Get:40 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 librsvg2-common amd64 2.52.5+dfsg-3ubuntu0.2 [17.7 kB]
Get:41 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libgslcblas0 amd64 2.7.1+dfsg-3 [94.4 kB]
Get:42 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libgsl27 amd64 2.7.1+dfsg-3 [1,000 kB]
Get:43 http://archive.ubuntu.com/ubuntu jammy/universe amd64 lib2geom1.1.0 amd64 1.1-2build1 [346 kB]

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Get:44 http://archive.ubuntu.com/ubuntu jammy/main amd64 libsigc++-2.0-0v5 amd64
2.10.4-2ubuntu3 [12.1 kB]
Get:45 http://archive.ubuntu.com/ubuntu jammy/main amd64 libglibmm-2.4-1v5 amd64
2.66.2-2 [645 kB]
Get:46 http://archive.ubuntu.com/ubuntu jammy/main amd64 libatkmm-1.6-1v5 amd64
2.28.2-1build1 [78.5 kB]
Get:47 http://archive.ubuntu.com/ubuntu jammy/main amd64 libcairomm-1.0-1v5
amd64 1.12.2-4build3 [45.1 kB]
Get:48 http://archive.ubuntu.com/ubuntu jammy/main amd64 librevenge-0.0-0 amd64
0.0.4-6ubuntu7 [209 kB]
Get:49 http://archive.ubuntu.com/ubuntu jammy/main amd64 libcdr-0.1-1 amd64
0.1.6-2build2 [392 kB]
Get:50 http://archive.ubuntu.com/ubuntu jammy/main amd64 libdbus-glib-1-2 amd64
0.112-2build1 [65.4 kB]
Get:51 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgspell-1-common all
1.9.1-4 [6,114 B]
Get:52 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgspell-1-2 amd64
1.9.1-4 [56.5 kB]
Get:53 http://archive.ubuntu.com/ubuntu jammy/main amd64 libpangomm-1.4-1v5
amd64 2.46.2-1 [56.1 kB]
Get:54 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgtkmm-3.0-1v5 amd64
3.24.5-1build1 [1,003 kB]
Get:55 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64
libmagick++-6.q16-8 amd64 8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5 [157 kB]
Get:56 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpoppler-
glib8 amd64 22.02.0-2ubuntu0.9 [134 kB]
Get:57 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libpotrace0 amd64
1.16-2 [17.2 kB]
Get:58 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64
libsoup2.4-common all 2.74.2-3ubuntu0.6 [4,778 B]
Get:59 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libsoup2.4-1
amd64 2.74.2-3ubuntu0.6 [288 kB]
Get:60 http://archive.ubuntu.com/ubuntu jammy/main amd64 libvisio-0.1-1 amd64
0.1.7-1build5 [238 kB]
Get:61 http://archive.ubuntu.com/ubuntu jammy/main amd64 libwpd-0.10-10 amd64
0.10.3-2build1 [209 kB]
Get:62 http://archive.ubuntu.com/ubuntu jammy/main amd64 libwpg-0.3-3 amd64
0.3.3-1build3 [49.9 kB]
Get:63 http://archive.ubuntu.com/ubuntu jammy/universe amd64 inkscape amd64
1.1.2-3ubuntu1 [17.8 MB]
Get:64 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libdjvulibre-
text all 3.5.28-2ubuntu0.22.04.1 [51.0 kB]
Get:65 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libdjvulibre21
amd64 3.5.28-2ubuntu0.22.04.1 [624 kB]
Get:66 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libjxr0 amd64
1.2~git20170615.f752187-5 [174 kB]
Get:67 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libjxr-tools amd64
1.2~git20170615.f752187-5 [16.0 kB]
```

Get:68 http://archive.ubuntu.com/ubuntu jammy/main amd64 libwmflite-0.2-7 amd64
0.2.12-5ubuntu1 [68.9 kB]
Get:69 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64
libmagickcore-6.q16-6-extra amd64 8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5 [70.1 kB]
Get:70 http://archive.ubuntu.com/ubuntu jammy/main amd64 libwmf-0.2-7 amd64
0.2.12-5ubuntu1 [94.2 kB]
Get:71 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libwmf-bin amd64
0.2.12-5ubuntu1 [34.3 kB]
Get:72 http://archive.ubuntu.com/ubuntu jammy/main amd64 python3-soupsieve all
2.3.1-1 [33.0 kB]
Get:73 http://archive.ubuntu.com/ubuntu jammy/main amd64 python3-bs4 all
4.10.0-2 [79.1 kB]
Get:74 http://archive.ubuntu.com/ubuntu jammy/main amd64 python3-chardet all
4.0.0-1 [98.0 kB]
Get:75 http://archive.ubuntu.com/ubuntu jammy/main amd64 python3-webencodings
all 0.5.1-4 [11.8 kB]
Get:76 http://archive.ubuntu.com/ubuntu jammy/main amd64 python3-html5lib all
1.1-3 [87.0 kB]
Get:77 http://archive.ubuntu.com/ubuntu jammy/main amd64 python3-lxml amd64
4.8.0-1build1 [1,150 kB]
Get:78 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 python3-numpy
amd64 1:1.21.5-1ubuntu22.04.1 [3,467 kB]
Get:79 http://archive.ubuntu.com/ubuntu jammy/universe amd64 python3-scour all
0.38.2-2 [49.4 kB]
Fetched 55.8 MB in 4s (14.3 MB/s)
Extracting templates from packages: 100%
Preconfiguring packages …
Selecting previously unselected package fonts-droid-fallback.
(Reading database … 126509 files and directories currently installed.)
Preparing to unpack …/00-fonts-droid-fallback_1%3a6.0.1r16-1.1build1_all.deb
…
Unpacking fonts-droid-fallback (1:6.0.1r16-1.1build1) …
Selecting previously unselected package gawk.
Preparing to unpack …/01-gawk_1%3a5.1.0-1ubuntu0.1_amd64.deb …
Unpacking gawk (1:5.1.0-1ubuntu0.1) …
Selecting previously unselected package imagemagick-6-common.
Preparing to unpack
…/02-imagemagick-6-common_8%3a6.9.11.60+dfsg-1.3ubuntu0.22.04.5_all.deb …
Unpacking imagemagick-6-common (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Selecting previously unselected package libfftw3-double3:amd64.
Preparing to unpack …/03-libfftw3-double3_3.3.8-2ubuntu8_amd64.deb …
Unpacking libfftw3-double3:amd64 (3.3.8-2ubuntu8) …
Selecting previously unselected package liblqr-1-0:amd64.
Preparing to unpack …/04-liblqr-1-0_0.4.2-2.1_amd64.deb …
Unpacking liblqr-1-0:amd64 (0.4.2-2.1) …
Selecting previously unselected package libmagickcore-6.q16-6:amd64.
Preparing to unpack
…/05-libmagickcore-6.q16-6_8%3a6.9.11.60+dfsg-1.3ubuntu0.22.04.5_amd64.deb …

```
Unpacking libmagickcore-6.q16-6:amd64 (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Selecting previously unselected package libimage-magick-q16-perl.
Preparing to unpack …/06-libimage-
magick-q16-perl_8%3a6.9.11.60+dfsg-1.3ubuntu0.22.04.5_amd64.deb …
Unpacking libimage-magick-q16-perl (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Selecting previously unselected package libimage-magick-perl.
Preparing to unpack …/07-libimage-magick-
perl_8%3a6.9.11.60+dfsg-1.3ubuntu0.22.04.5_all.deb …
Unpacking libimage-magick-perl (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Selecting previously unselected package libmagickwand-6.q16-6:amd64.
Preparing to unpack
…/08-libmagickwand-6.q16-6_8%3a6.9.11.60+dfsg-1.3ubuntu0.22.04.5_amd64.deb …
Unpacking libmagickwand-6.q16-6:amd64 (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Selecting previously unselected package poppler-data.
Preparing to unpack …/09-poppler-data_0.4.11-1_all.deb …
Unpacking poppler-data (0.4.11-1) …
Selecting previously unselected package libtext-iconv-perl.
Preparing to unpack …/10-libtext-iconv-perl_1.7-7build3_amd64.deb …
Unpacking libtext-iconv-perl (1.7-7build3) …
Selecting previously unselected package libaspell15:amd64.
Preparing to unpack …/11-libaspell15_0.60.8-4build1_amd64.deb …
Unpacking libaspell15:amd64 (0.60.8-4build1) …
Selecting previously unselected package dictionaries-common.
Preparing to unpack …/12-dictionaries-common_1.28.14_all.deb …
Adding 'diversion of /usr/share/dict/words to /usr/share/dict/words.pre-
dictionaries-common by dictionaries-common'
Unpacking dictionaries-common (1.28.14) …
Selecting previously unselected package aspell.
Preparing to unpack …/13-aspell_0.60.8-4build1_amd64.deb …
Unpacking aspell (0.60.8-4build1) …
Selecting previously unselected package aspell-en.
Preparing to unpack …/14-aspell-en_2018.04.16-0-1_all.deb …
Unpacking aspell-en (2018.04.16-0-1) …
Selecting previously unselected package hunspell-en-us.
Preparing to unpack …/15-hunspell-en-us_1%3a2020.12.07-2_all.deb …
Unpacking hunspell-en-us (1:2020.12.07-2) …
Selecting previously unselected package libhunspell-1.7-0:amd64.
Preparing to unpack …/16-libhunspell-1.7-0_1.7.0-4build1_amd64.deb …
Unpacking libhunspell-1.7-0:amd64 (1.7.0-4build1) …
Selecting previously unselected package libenchant-2-2:amd64.
Preparing to unpack …/17-libenchant-2-2_2.3.2-1ubuntu2_amd64.deb …
Unpacking libenchant-2-2:amd64 (2.3.2-1ubuntu2) …
Selecting previously unselected package enchant-2.
Preparing to unpack …/18-enchant-2_2.3.2-1ubuntu2_amd64.deb …
Unpacking enchant-2 (2.3.2-1ubuntu2) …
Selecting previously unselected package fonts-urw-base35.
Preparing to unpack …/19-fonts-urw-base35_20200910-1_all.deb …
Unpacking fonts-urw-base35 (20200910-1) …
```

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Selecting previously unselected package libgs9-common.
Preparing to unpack …/20-libgs9-common_9.55.0~dfsg1-0ubuntu5.12_all.deb …
Unpacking libgs9-common (9.55.0~dfsg1-0ubuntu5.12) …
Selecting previously unselected package libidn12:amd64.
Preparing to unpack …/21-libidn12_1.38-4ubuntu1_amd64.deb …
Unpacking libidn12:amd64 (1.38-4ubuntu1) …
Selecting previously unselected package libijs-0.35:amd64.
Preparing to unpack …/22-libijs-0.35_0.35-15build2_amd64.deb …
Unpacking libijs-0.35:amd64 (0.35-15build2) …
Selecting previously unselected package libjbig2dec0:amd64.
Preparing to unpack …/23-libjbig2dec0_0.19-3build2_amd64.deb …
Unpacking libjbig2dec0:amd64 (0.19-3build2) …
Selecting previously unselected package libgs9:amd64.
Preparing to unpack …/24-libgs9_9.55.0~dfsg1-0ubuntu5.12_amd64.deb …
Unpacking libgs9:amd64 (9.55.0~dfsg1-0ubuntu5.12) …
Selecting previously unselected package ghostscript.
Preparing to unpack …/25-ghostscript_9.55.0~dfsg1-0ubuntu5.12_amd64.deb …
Unpacking ghostscript (9.55.0~dfsg1-0ubuntu5.12) …
Selecting previously unselected package libnetpbm10.
Preparing to unpack …/26-libnetpbm10_2%3a10.0-15.4_amd64.deb …
Unpacking libnetpbm10 (2:10.0-15.4) …
Selecting previously unselected package netpbm.
Preparing to unpack …/27-netpbm_2%3a10.0-15.4_amd64.deb …
Unpacking netpbm (2:10.0-15.4) …
Selecting previously unselected package fig2dev.
Preparing to unpack …/28-fig2dev_1%3a3.2.8b-1_amd64.deb …
Unpacking fig2dev (1:3.2.8b-1) …
Selecting previously unselected package fonts-noto-mono.
Preparing to unpack …/29-fonts-noto-mono_20201225-1build1_all.deb …
Unpacking fonts-noto-mono (20201225-1build1) …
Selecting previously unselected package libproxy1v5:amd64.
Preparing to unpack …/30-libproxy1v5_0.4.17-2_amd64.deb …
Unpacking libproxy1v5:amd64 (0.4.17-2) …
Selecting previously unselected package glib-networking-common.
Preparing to unpack …/31-glib-networking-common_2.72.0-1_all.deb …
Unpacking glib-networking-common (2.72.0-1) …
Selecting previously unselected package glib-networking-services.
Preparing to unpack …/32-glib-networking-services_2.72.0-1_amd64.deb …
Unpacking glib-networking-services (2.72.0-1) …
Selecting previously unselected package session-migration.
Preparing to unpack …/33-session-migration_0.3.6_amd64.deb …
Unpacking session-migration (0.3.6) …
Selecting previously unselected package gsettings-desktop-schemas.
Preparing to unpack …/34-gsettings-desktop-schemas_42.0-1ubuntu1_all.deb …
Unpacking gsettings-desktop-schemas (42.0-1ubuntu1) …
Selecting previously unselected package glib-networking:amd64.
Preparing to unpack …/35-glib-networking_2.72.0-1_amd64.deb …
Unpacking glib-networking:amd64 (2.72.0-1) …
```

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Selecting previously unselected package gsfonts.
Preparing to unpack …/36-gsfonts_1%3a8.11+urwcyr1.0.7~pre44-4.5_all.deb …
Unpacking gsfonts (1:8.11+urwcyr1.0.7~pre44-4.5) …
Selecting previously unselected package imagemagick-6.q16.
Preparing to unpack
…/37-imagemagick-6.q16_8%3a6.9.11.60+dfsg-1.3ubuntu0.22.04.5_amd64.deb …
Unpacking imagemagick-6.q16 (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Selecting previously unselected package imagemagick.
Preparing to unpack
…/38-imagemagick_8%3a6.9.11.60+dfsg-1.3ubuntu0.22.04.5_amd64.deb …
Unpacking imagemagick (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Selecting previously unselected package librsvg2-common:amd64.
Preparing to unpack …/39-librsvg2-common_2.52.5+dfsg-3ubuntu0.2_amd64.deb …
Unpacking librsvg2-common:amd64 (2.52.5+dfsg-3ubuntu0.2) …
Selecting previously unselected package libgslcblas0:amd64.
Preparing to unpack …/40-libgslcblas0_2.7.1+dfsg-3_amd64.deb …
Unpacking libgslcblas0:amd64 (2.7.1+dfsg-3) …
Selecting previously unselected package libgsl27:amd64.
Preparing to unpack …/41-libgsl27_2.7.1+dfsg-3_amd64.deb …
Unpacking libgsl27:amd64 (2.7.1+dfsg-3) …
Selecting previously unselected package lib2geom1.1.0:amd64.
Preparing to unpack …/42-lib2geom1.1.0_1.1-2build1_amd64.deb …
Unpacking lib2geom1.1.0:amd64 (1.1-2build1) …
Selecting previously unselected package libsigc++-2.0-0v5:amd64.
Preparing to unpack …/43-libsigc++-2.0-0v5_2.10.4-2ubuntu3_amd64.deb …
Unpacking libsigc++-2.0-0v5:amd64 (2.10.4-2ubuntu3) …
Selecting previously unselected package libglibmm-2.4-1v5:amd64.
Preparing to unpack …/44-libglibmm-2.4-1v5_2.66.2-2_amd64.deb …
Unpacking libglibmm-2.4-1v5:amd64 (2.66.2-2) …
Selecting previously unselected package libatkmm-1.6-1v5:amd64.
Preparing to unpack …/45-libatkmm-1.6-1v5_2.28.2-1build1_amd64.deb …
Unpacking libatkmm-1.6-1v5:amd64 (2.28.2-1build1) …
Selecting previously unselected package libcairomm-1.0-1v5:amd64.
Preparing to unpack …/46-libcairomm-1.0-1v5_1.12.2-4build3_amd64.deb …
Unpacking libcairomm-1.0-1v5:amd64 (1.12.2-4build3) …
Selecting previously unselected package librevenge-0.0-0:amd64.
Preparing to unpack …/47-librevenge-0.0-0_0.0.4-6ubuntu7_amd64.deb …
Unpacking librevenge-0.0-0:amd64 (0.0.4-6ubuntu7) …
Selecting previously unselected package libcdr-0.1-1:amd64.
Preparing to unpack …/48-libcdr-0.1-1_0.1.6-2build2_amd64.deb …
Unpacking libcdr-0.1-1:amd64 (0.1.6-2build2) …
Selecting previously unselected package libdbus-glib-1-2:amd64.
Preparing to unpack …/49-libdbus-glib-1-2_0.112-2build1_amd64.deb …
Unpacking libdbus-glib-1-2:amd64 (0.112-2build1) …
Selecting previously unselected package libgspell-1-common.
Preparing to unpack …/50-libgspell-1-common_1.9.1-4_all.deb …
Unpacking libgspell-1-common (1.9.1-4) …
Selecting previously unselected package libgspell-1-2:amd64.
```

```
Preparing to unpack …/51-libgspell-1-2_1.9.1-4_amd64.deb …
Unpacking libgspell-1-2:amd64 (1.9.1-4) …
Selecting previously unselected package libpangomm-1.4-1v5:amd64.
Preparing to unpack …/52-libpangomm-1.4-1v5_2.46.2-1_amd64.deb …
Unpacking libpangomm-1.4-1v5:amd64 (2.46.2-1) …
Selecting previously unselected package libgtkmm-3.0-1v5:amd64.
Preparing to unpack …/53-libgtkmm-3.0-1v5_3.24.5-1build1_amd64.deb …
Unpacking libgtkmm-3.0-1v5:amd64 (3.24.5-1build1) …
Selecting previously unselected package libmagick++-6.q16-8:amd64.
Preparing to unpack
…/54-libmagick++-6.q16-8_8%3a6.9.11.60+dfsg-1.3ubuntu0.22.04.5_amd64.deb …
Unpacking libmagick++-6.q16-8:amd64 (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Selecting previously unselected package libpoppler-glib8:amd64.
Preparing to unpack …/55-libpoppler-glib8_22.02.0-2ubuntu0.9_amd64.deb …
Unpacking libpoppler-glib8:amd64 (22.02.0-2ubuntu0.9) …
Selecting previously unselected package libpotrace0:amd64.
Preparing to unpack …/56-libpotrace0_1.16-2_amd64.deb …
Unpacking libpotrace0:amd64 (1.16-2) …
Selecting previously unselected package libsoup2.4-common.
Preparing to unpack …/57-libsoup2.4-common_2.74.2-3ubuntu0.6_all.deb …
Unpacking libsoup2.4-common (2.74.2-3ubuntu0.6) …
Selecting previously unselected package libsoup2.4-1:amd64.
Preparing to unpack …/58-libsoup2.4-1_2.74.2-3ubuntu0.6_amd64.deb …
Unpacking libsoup2.4-1:amd64 (2.74.2-3ubuntu0.6) …
Selecting previously unselected package libvisio-0.1-1:amd64.
Preparing to unpack …/59-libvisio-0.1-1_0.1.7-1build5_amd64.deb …
Unpacking libvisio-0.1-1:amd64 (0.1.7-1build5) …
Selecting previously unselected package libwpd-0.10-10:amd64.
Preparing to unpack …/60-libwpd-0.10-10_0.10.3-2build1_amd64.deb …
Unpacking libwpd-0.10-10:amd64 (0.10.3-2build1) …
Selecting previously unselected package libwpg-0.3-3:amd64.
Preparing to unpack …/61-libwpg-0.3-3_0.3.3-1build3_amd64.deb …
Unpacking libwpg-0.3-3:amd64 (0.3.3-1build3) …
Selecting previously unselected package inkscape.
Preparing to unpack …/62-inkscape_1.1.2-3ubuntu1_amd64.deb …
Unpacking inkscape (1.1.2-3ubuntu1) …
Selecting previously unselected package libdjvulibre-text.
Preparing to unpack …/63-libdjvulibre-text_3.5.28-2ubuntu0.22.04.1_all.deb …
Unpacking libdjvulibre-text (3.5.28-2ubuntu0.22.04.1) …
Selecting previously unselected package libdjvulibre21:amd64.
Preparing to unpack …/64-libdjvulibre21_3.5.28-2ubuntu0.22.04.1_amd64.deb …
Unpacking libdjvulibre21:amd64 (3.5.28-2ubuntu0.22.04.1) …
Selecting previously unselected package libjxr0:amd64.
Preparing to unpack …/65-libjxr0_1.2~git20170615.f752187-5_amd64.deb …
Unpacking libjxr0:amd64 (1.2~git20170615.f752187-5) …
Selecting previously unselected package libjxr-tools.
Preparing to unpack …/66-libjxr-tools_1.2~git20170615.f752187-5_amd64.deb …
Unpacking libjxr-tools (1.2~git20170615.f752187-5) …
```

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Selecting previously unselected package libwmflite-0.2-7:amd64.
Preparing to unpack …/67-libwmflite-0.2-7_0.2.12-5ubuntu1_amd64.deb …
Unpacking libwmflite-0.2-7:amd64 (0.2.12-5ubuntu1) …
Selecting previously unselected package libmagickcore-6.q16-6-extra:amd64.
Preparing to unpack …/68-libmagickcore-6.q16-6-extra_8%3a6.9.11.60+dfsg-
1.3ubuntu0.22.04.5_amd64.deb …
Unpacking libmagickcore-6.q16-6-extra:amd64
(8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Selecting previously unselected package libwmf-0.2-7:amd64.
Preparing to unpack …/69-libwmf-0.2-7_0.2.12-5ubuntu1_amd64.deb …
Unpacking libwmf-0.2-7:amd64 (0.2.12-5ubuntu1) …
Selecting previously unselected package libwmf-bin.
Preparing to unpack …/70-libwmf-bin_0.2.12-5ubuntu1_amd64.deb …
Unpacking libwmf-bin (0.2.12-5ubuntu1) …
Selecting previously unselected package python3-soupsieve.
Preparing to unpack …/71-python3-soupsieve_2.3.1-1_all.deb …
Unpacking python3-soupsieve (2.3.1-1) …
Selecting previously unselected package python3-bs4.
Preparing to unpack …/72-python3-bs4_4.10.0-2_all.deb …
Unpacking python3-bs4 (4.10.0-2) …
Selecting previously unselected package python3-chardet.
Preparing to unpack …/73-python3-chardet_4.0.0-1_all.deb …
Unpacking python3-chardet (4.0.0-1) …
Selecting previously unselected package python3-webencodings.
Preparing to unpack …/74-python3-webencodings_0.5.1-4_all.deb …
Unpacking python3-webencodings (0.5.1-4) …
Selecting previously unselected package python3-html5lib.
Preparing to unpack …/75-python3-html5lib_1.1-3_all.deb …
Unpacking python3-html5lib (1.1-3) …
Selecting previously unselected package python3-lxml:amd64.
Preparing to unpack …/76-python3-lxml_4.8.0-1build1_amd64.deb …
Unpacking python3-lxml:amd64 (4.8.0-1build1) …
Selecting previously unselected package python3-numpy.
Preparing to unpack …/77-python3-numpy_1%3a1.21.5-1ubuntu22.04.1_amd64.deb …
Unpacking python3-numpy (1:1.21.5-1ubuntu22.04.1) …
Selecting previously unselected package python3-scour.
Preparing to unpack …/78-python3-scour_0.38.2-2_all.deb …
Unpacking python3-scour (0.38.2-2) …
Setting up libtext-iconv-perl (1.7-7build3) …
Setting up session-migration (0.3.6) …
Created symlink /etc/systemd/user/graphical-session-pre.target.wants/session-
migration.service → /usr/lib/systemd/user/session-migration.service.
Setting up imagemagick-6-common (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Setting up libproxy1v5:amd64 (0.4.17-2) …
Setting up libpoppler-glib8:amd64 (22.02.0-2ubuntu0.9) …
Setting up fonts-noto-mono (20201225-1build1) …
Setting up libwmflite-0.2-7:amd64 (0.2.12-5ubuntu1) …
Setting up libgslcblas0:amd64 (2.7.1+dfsg-3) …
```

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Setting up libgspell-1-common (1.9.1-4) …
Setting up dictionaries-common (1.28.14) …
Setting up gawk (1:5.1.0-1ubuntu0.1) …
Setting up libaspell15:amd64 (0.60.8-4build1) …
Setting up libijs-0.35:amd64 (0.35-15build2) …
Setting up libjxr0:amd64 (1.2~git20170615.f752187-5) …
Setting up libgsl27:amd64 (2.7.1+dfsg-3) …
Setting up libnetpbm10 (2:10.0-15.4) …
Setting up fonts-urw-base35 (20200910-1) …
Setting up python3-webencodings (0.5.1-4) …
Setting up librevenge-0.0-0:amd64 (0.0.4-6ubuntu7) …
Setting up poppler-data (0.4.11-1) …
Setting up python3-chardet (4.0.0-1) …
Setting up libwmf-0.2-7:amd64 (0.2.12-5ubuntu1) …
Setting up libjbig2dec0:amd64 (0.19-3build2) …
Setting up libsigc++-2.0-0v5:amd64 (2.10.4-2ubuntu3) …
Setting up libdbus-glib-1-2:amd64 (0.112-2build1) …
Setting up gsfonts (1:8.11+urwcyr1.0.7~pre44-4.5) …
Setting up libidn12:amd64 (1.38-4ubuntu1) …
Setting up lib2geom1.1.0:amd64 (1.1-2build1) …
Setting up aspell (0.60.8-4build1) …
Setting up librsvg2-common:amd64 (2.52.5+dfsg-3ubuntu0.2) …
Setting up netpbm (2:10.0-15.4) …
Setting up python3-html5lib (1.1-3) …
Setting up python3-numpy (1:1.21.5-1ubuntu22.04.1) …
Setting up libfftw3-double3:amd64 (3.3.8-2ubuntu8) …
Setting up libsoup2.4-common (2.74.2-3ubuntu0.6) …
Setting up liblqr-1-0:amd64 (0.4.2-2.1) …
Setting up python3-lxml:amd64 (4.8.0-1build1) …
Setting up hunspell-en-us (1:2020.12.07-2) …
Setting up fonts-droid-fallback (1:6.0.1r16-1.1build1) …
Setting up python3-scour (0.38.2-2) …
Setting up libdjvulibre-text (3.5.28-2ubuntu0.22.04.1) …
Setting up libhunspell-1.7-0:amd64 (1.7.0-4build1) …
Setting up glib-networking-common (2.72.0-1) …
Setting up libwpd-0.10-10:amd64 (0.10.3-2build1) …
Setting up python3-soupsieve (2.3.1-1) …
Setting up libvisio-0.1-1:amd64 (0.1.7-1build5) …
Setting up libpotrace0:amd64 (1.16-2) …
Setting up libgs9-common (9.55.0~dfsg1-0ubuntu5.12) …
Setting up gsettings-desktop-schemas (42.0-1ubuntu1) …
Setting up glib-networking-services (2.72.0-1) …
Setting up libglibmm-2.4-1v5:amd64 (2.66.2-2) …
Setting up libwmf-bin (0.2.12-5ubuntu1) …
Setting up libjxr-tools (1.2~git20170615.f752187-5) …
Setting up libgs9:amd64 (9.55.0~dfsg1-0ubuntu5.12) …
Setting up libenchant-2-2:amd64 (2.3.2-1ubuntu2) …
Setting up libdjvulibre21:amd64 (3.5.28-2ubuntu0.22.04.1) …
```

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Setting up aspell-en (2018.04.16-0-1) …
Setting up enchant-2 (2.3.2-1ubuntu2) …
Setting up libcdr-0.1-1:amd64 (0.1.6-2build2) …
Setting up ghostscript (9.55.0~dfsg1-0ubuntu5.12) …
Setting up fig2dev (1:3.2.8b-1) …
Setting up python3-bs4 (4.10.0-2) …
Setting up libcairomm-1.0-1v5:amd64 (1.12.2-4build3) …
Setting up libmagickcore-6.q16-6:amd64 (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Setting up libpangomm-1.4-1v5:amd64 (2.46.2-1) …
Setting up libwpg-0.3-3:amd64 (0.3.3-1build3) …
Setting up libmagickwand-6.q16-6:amd64 (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Setting up libatkmm-1.6-1v5:amd64 (2.28.2-1build1) …
Setting up libmagick++-6.q16-8:amd64 (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Setting up libgspell-1-2:amd64 (1.9.1-4) …
Setting up libmagickcore-6.q16-6-extra:amd64
(8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Setting up libimage-magick-q16-perl (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Setting up libgtkmm-3.0-1v5:amd64 (3.24.5-1build1) …
Setting up imagemagick-6.q16 (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
update-alternatives: using /usr/bin/compare-im6.q16 to provide /usr/bin/compare
(compare) in auto mode
update-alternatives: using /usr/bin/compare-im6.q16 to provide /usr/bin/compare-
im6 (compare-im6) in auto mode
update-alternatives: using /usr/bin/animate-im6.q16 to provide /usr/bin/animate
(animate) in auto mode
update-alternatives: using /usr/bin/animate-im6.q16 to provide /usr/bin/animate-
im6 (animate-im6) in auto mode
update-alternatives: using /usr/bin/convert-im6.q16 to provide /usr/bin/convert
(convert) in auto mode
update-alternatives: using /usr/bin/convert-im6.q16 to provide /usr/bin/convert-
im6 (convert-im6) in auto mode
update-alternatives: using /usr/bin/composite-im6.q16 to provide
/usr/bin/composite (composite) in auto mode
update-alternatives: using /usr/bin/composite-im6.q16 to provide
/usr/bin/composite-im6 (composite-im6) in auto mode
update-alternatives: using /usr/bin/conjure-im6.q16 to provide /usr/bin/conjure
(conjure) in auto mode
update-alternatives: using /usr/bin/conjure-im6.q16 to provide /usr/bin/conjure-
im6 (conjure-im6) in auto mode
update-alternatives: using /usr/bin/import-im6.q16 to provide /usr/bin/import
(import) in auto mode
update-alternatives: using /usr/bin/import-im6.q16 to provide /usr/bin/import-
im6 (import-im6) in auto mode
update-alternatives: using /usr/bin/identify-im6.q16 to provide
/usr/bin/identify (identify) in auto mode
update-alternatives: using /usr/bin/identify-im6.q16 to provide
/usr/bin/identify-im6 (identify-im6) in auto mode
update-alternatives: using /usr/bin/stream-im6.q16 to provide /usr/bin/stream
```

(stream) in auto mode
update-alternatives: using /usr/bin/stream-im6.q16 to provide /usr/bin/stream-im6 (stream-im6) in auto mode
update-alternatives: using /usr/bin/display-im6.q16 to provide /usr/bin/display (display) in auto mode
update-alternatives: using /usr/bin/display-im6.q16 to provide /usr/bin/display-im6 (display-im6) in auto mode
update-alternatives: using /usr/bin/montage-im6.q16 to provide /usr/bin/montage (montage) in auto mode
update-alternatives: using /usr/bin/montage-im6.q16 to provide /usr/bin/montage-im6 (montage-im6) in auto mode
update-alternatives: using /usr/bin/mogrify-im6.q16 to provide /usr/bin/mogrify (mogrify) in auto mode
update-alternatives: using /usr/bin/mogrify-im6.q16 to provide /usr/bin/mogrify-im6 (mogrify-im6) in auto mode
Setting up libimage-magick-perl (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Setting up imagemagick (8:6.9.11.60+dfsg-1.3ubuntu0.22.04.5) …
Processing triggers for libgdk-pixbuf-2.0-0:amd64 (2.42.8+dfsg-1ubuntu0.4) …
Processing triggers for mailcap (3.70+nmu1ubuntu1) …
Processing triggers for fontconfig (2.13.1-4.2ubuntu5) …
Processing triggers for hicolor-icon-theme (0.17-2) …
Processing triggers for libglib2.0-0:amd64 (2.72.4-0ubuntu2.5) …
Processing triggers for libc-bin (2.35-0ubuntu3.8) …
/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_0.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_opencl.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero_v2.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbb.so.12 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm_debug.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_loader.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libhwloc.so.15 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc_proxy.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libumf.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_5.so.3 is not a symbolic link

Processing triggers for man-db (2.10.2-1) …
Setting up glib-networking:amd64 (2.72.0-1) …
Setting up libsoup2.4-1:amd64 (2.74.2-3ubuntu0.6) …
Setting up inkscape (1.1.2-3ubuntu1) …
Processing triggers for dictionaries-common (1.28.14) …
aspell-autobuildhash: processing: en [en-common].
aspell-autobuildhash: processing: en [en-variant_0].
aspell-autobuildhash: processing: en [en-variant_1].
aspell-autobuildhash: processing: en [en-variant_2].
aspell-autobuildhash: processing: en [en-w_accents-only].
aspell-autobuildhash: processing: en [en-wo_accents-only].
aspell-autobuildhash: processing: en [en_AU-variant_0].
aspell-autobuildhash: processing: en [en_AU-variant_1].
aspell-autobuildhash: processing: en [en_AU-w_accents-only].
aspell-autobuildhash: processing: en [en_AU-wo_accents-only].
aspell-autobuildhash: processing: en [en_CA-variant_0].
aspell-autobuildhash: processing: en [en_CA-variant_1].
aspell-autobuildhash: processing: en [en_CA-w_accents-only].
aspell-autobuildhash: processing: en [en_CA-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-ise-w_accents-only].
aspell-autobuildhash: processing: en [en_GB-ise-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-ize-w_accents-only].
aspell-autobuildhash: processing: en [en_GB-ize-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-variant_0].
aspell-autobuildhash: processing: en [en_GB-variant_1].
aspell-autobuildhash: processing: en [en_US-w_accents-only].
aspell-autobuildhash: processing: en [en_US-wo_accents-only].
Processing triggers for libc-bin (2.35-0ubuntu3.8) …
/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_0.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero.so.0 is not a
symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_opencl.so.0 is not a symbolic
link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero_v2.so.0 is not a
symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc.so.2 is not a symbolic link

```
/sbin/ldconfig.real: /usr/local/lib/libtbb.so.12 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm_debug.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_loader.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libhwloc.so.15 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc_proxy.so.2 is not a symbolic
link

/sbin/ldconfig.real: /usr/local/lib/libumf.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_5.so.3 is not a symbolic link

Reading package lists… Done
Building dependency tree… Done
Reading state information… Done
The following additional packages will be installed:
  dvisvgm fonts-lato fonts-lmodern fonts-texgyre libapache-pom-java
  libcommons-logging-java libcommons-parent-java libfontbox-java libkpathsea6
  libpdfbox-java libptexenc1 libruby3.0 libsynctex2 libteckit0 libtexlua53
  libtexluajit2 libwoff1 libzzip-0-13 lmodern preview-latex-style rake ruby
  ruby-net-telnet ruby-rubygems ruby-webrick ruby-xmlrpc ruby3.0
  rubygems-integration t1utils teckit tex-common tex-gyre texlive-base
  texlive-binaries texlive-latex-base texlive-latex-recommended
  texlive-pictures texlive-plain-generic tipa xfonts-encodings xfonts-utils
Suggested packages:
  libavalon-framework-java libcommons-logging-java-doc
  libexcalibur-logkit-java liblog4j1.2-java ri ruby-dev bundler debhelper
  perl-tk xpdf | pdf-viewer xzdec texlive-fonts-recommended-doc
  texlive-latex-base-doc python3-pygments icc-profiles libfile-which-perl
  libspreadsheet-parseexcel-perl texlive-latex-extra-doc
  texlive-latex-recommended-doc texlive-luatex texlive-pstricks dot2tex prerex
  texlive-pictures-doc vprerex default-jre-headless tipa-doc
The following NEW packages will be installed:
  dvisvgm fonts-lato fonts-lmodern fonts-texgyre libapache-pom-java
  libcommons-logging-java libcommons-parent-java libfontbox-java libkpathsea6
  libpdfbox-java libptexenc1 libruby3.0 libsynctex2 libteckit0 libtexlua53
  libtexluajit2 libwoff1 libzzip-0-13 lmodern preview-latex-style rake ruby
  ruby-net-telnet ruby-rubygems ruby-webrick ruby-xmlrpc ruby3.0
  rubygems-integration t1utils teckit tex-common tex-gyre texlive-base
  texlive-binaries texlive-fonts-recommended texlive-latex-base
  texlive-latex-extra texlive-latex-recommended texlive-pictures
```

```
    texlive-plain-generic texlive-xetex tipa xfonts-encodings xfonts-utils
0 upgraded, 44 newly installed, 0 to remove and 35 not upgraded.
Need to get 165 MB of archives.
After this operation, 509 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-lato all 2.0-2.1
[2,696 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/universe amd64 tex-common all 6.17
[33.7 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libkpathsea6
amd64 2021.20210626.59705-1ubuntu0.2 [60.4 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy/main amd64 libwoff1 amd64
1.0.2-1build4 [45.2 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy/universe amd64 dvisvgm amd64
2.13.1-1 [1,221 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy/universe amd64 fonts-lmodern all
2.004.5-6.1 [4,532 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy/universe amd64 fonts-texgyre all
20180621-3.1 [10.2 MB]
Get:8 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libapache-pom-java
all 18-1 [4,720 B]
Get:9 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libcommons-parent-
java all 43-1 [10.8 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libcommons-logging-
java all 1.2-2 [60.3 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libptexenc1
amd64 2021.20210626.59705-1ubuntu0.2 [39.1 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/main amd64 rubygems-integration
all 1.18 [5,336 B]
Get:13 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ruby3.0 amd64
3.0.2-7ubuntu2.10 [50.1 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy/main amd64 ruby-rubygems all
3.3.5-2 [228 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy/main amd64 ruby amd64 1:3.0~exp1
[5,100 B]
Get:16 http://archive.ubuntu.com/ubuntu jammy/main amd64 rake all 13.0.6-2 [61.7
kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy/main amd64 ruby-net-telnet all
0.1.1-2 [12.6 kB]
Get:18 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ruby-webrick
all 1.7.0-3ubuntu0.1 [52.1 kB]
Get:19 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ruby-xmlrpc all
0.3.2-1ubuntu0.1 [24.9 kB]
Get:20 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libruby3.0
amd64 3.0.2-7ubuntu2.10 [5,114 kB]
Get:21 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libsynctex2
amd64 2021.20210626.59705-1ubuntu0.2 [55.6 kB]
Get:22 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libteckit0 amd64
2.5.11+ds1-1 [421 kB]
```

```
Get:23 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libtexlua53
amd64 2021.20210626.59705-1ubuntu0.2 [120 kB]
Get:24 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libtexluajit2
amd64 2021.20210626.59705-1ubuntu0.2 [267 kB]
Get:25 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libzzip-0-13 amd64
0.13.72+dfsg.1-1.1 [27.0 kB]
Get:26 http://archive.ubuntu.com/ubuntu jammy/main amd64 xfonts-encodings all
1:1.0.5-0ubuntu2 [578 kB]
Get:27 http://archive.ubuntu.com/ubuntu jammy/main amd64 xfonts-utils amd64
1:7.7+6build2 [94.6 kB]
Get:28 http://archive.ubuntu.com/ubuntu jammy/universe amd64 lmodern all
2.004.5-6.1 [9,471 kB]
Get:29 http://archive.ubuntu.com/ubuntu jammy/universe amd64 preview-latex-style
all 12.2-1ubuntu1 [185 kB]
Get:30 http://archive.ubuntu.com/ubuntu jammy/main amd64 t1utils amd64
1.41-4build2 [61.3 kB]
Get:31 http://archive.ubuntu.com/ubuntu jammy/universe amd64 teckit amd64
2.5.11+ds1-1 [699 kB]
Get:32 http://archive.ubuntu.com/ubuntu jammy/universe amd64 tex-gyre all
20180621-3.1 [6,209 kB]
Get:33 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 texlive-
binaries amd64 2021.20210626.59705-1ubuntu0.2 [9,860 kB]
Get:34 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-base all
2021.20220204-1 [21.0 MB]
Get:35 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-fonts-
recommended all 2021.20220204-1 [4,972 kB]
Get:36 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-latex-base
all 2021.20220204-1 [1,128 kB]
Get:37 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libfontbox-java all
1:1.8.16-2 [207 kB]
Get:38 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libpdfbox-java all
1:1.8.16-2 [5,199 kB]
Get:39 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-latex-
recommended all 2021.20220204-1 [14.4 MB]
Get:40 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-pictures
all 2021.20220204-1 [8,720 kB]
Get:41 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-latex-extra
all 2021.20220204-1 [13.9 MB]
Get:42 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-plain-
generic all 2021.20220204-1 [27.5 MB]
Get:43 http://archive.ubuntu.com/ubuntu jammy/universe amd64 tipa all 2:1.3-21
[2,967 kB]
Get:44 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-xetex all
2021.20220204-1 [12.4 MB]
Fetched 165 MB in 4s (46.9 MB/s)
Extracting templates from packages: 100%
Preconfiguring packages …
Selecting previously unselected package fonts-lato.
```

```
(Reading database … 133788 files and directories currently installed.)
Preparing to unpack …/00-fonts-lato_2.0-2.1_all.deb …
Unpacking fonts-lato (2.0-2.1) …
Selecting previously unselected package tex-common.
Preparing to unpack …/01-tex-common_6.17_all.deb …
Unpacking tex-common (6.17) …
Selecting previously unselected package libkpathsea6:amd64.
Preparing to unpack …/02-libkpathsea6_2021.20210626.59705-1ubuntu0.2_amd64.deb
…
Unpacking libkpathsea6:amd64 (2021.20210626.59705-1ubuntu0.2) …
Selecting previously unselected package libwoff1:amd64.
Preparing to unpack …/03-libwoff1_1.0.2-1build4_amd64.deb …
Unpacking libwoff1:amd64 (1.0.2-1build4) …
Selecting previously unselected package dvisvgm.
Preparing to unpack …/04-dvisvgm_2.13.1-1_amd64.deb …
Unpacking dvisvgm (2.13.1-1) …
Selecting previously unselected package fonts-lmodern.
Preparing to unpack …/05-fonts-lmodern_2.004.5-6.1_all.deb …
Unpacking fonts-lmodern (2.004.5-6.1) …
Selecting previously unselected package fonts-texgyre.
Preparing to unpack …/06-fonts-texgyre_20180621-3.1_all.deb …
Unpacking fonts-texgyre (20180621-3.1) …
Selecting previously unselected package libapache-pom-java.
Preparing to unpack …/07-libapache-pom-java_18-1_all.deb …
Unpacking libapache-pom-java (18-1) …
Selecting previously unselected package libcommons-parent-java.
Preparing to unpack …/08-libcommons-parent-java_43-1_all.deb …
Unpacking libcommons-parent-java (43-1) …
Selecting previously unselected package libcommons-logging-java.
Preparing to unpack …/09-libcommons-logging-java_1.2-2_all.deb …
Unpacking libcommons-logging-java (1.2-2) …
Selecting previously unselected package libptexenc1:amd64.
Preparing to unpack …/10-libptexenc1_2021.20210626.59705-1ubuntu0.2_amd64.deb
…
Unpacking libptexenc1:amd64 (2021.20210626.59705-1ubuntu0.2) …
Selecting previously unselected package rubygems-integration.
Preparing to unpack …/11-rubygems-integration_1.18_all.deb …
Unpacking rubygems-integration (1.18) …
Selecting previously unselected package ruby3.0.
Preparing to unpack …/12-ruby3.0_3.0.2-7ubuntu2.10_amd64.deb …
Unpacking ruby3.0 (3.0.2-7ubuntu2.10) …
Selecting previously unselected package ruby-rubygems.
Preparing to unpack …/13-ruby-rubygems_3.3.5-2_all.deb …
Unpacking ruby-rubygems (3.3.5-2) …
Selecting previously unselected package ruby.
Preparing to unpack …/14-ruby_1%3a3.0~exp1_amd64.deb …
Unpacking ruby (1:3.0~exp1) …
Selecting previously unselected package rake.
```

```
Preparing to unpack …/15-rake_13.0.6-2_all.deb …
Unpacking rake (13.0.6-2) …
Selecting previously unselected package ruby-net-telnet.
Preparing to unpack …/16-ruby-net-telnet_0.1.1-2_all.deb …
Unpacking ruby-net-telnet (0.1.1-2) …
Selecting previously unselected package ruby-webrick.
Preparing to unpack …/17-ruby-webrick_1.7.0-3ubuntu0.1_all.deb …
Unpacking ruby-webrick (1.7.0-3ubuntu0.1) …
Selecting previously unselected package ruby-xmlrpc.
Preparing to unpack …/18-ruby-xmlrpc_0.3.2-1ubuntu0.1_all.deb …
Unpacking ruby-xmlrpc (0.3.2-1ubuntu0.1) …
Selecting previously unselected package libruby3.0:amd64.
Preparing to unpack …/19-libruby3.0_3.0.2-7ubuntu2.10_amd64.deb …
Unpacking libruby3.0:amd64 (3.0.2-7ubuntu2.10) …
Selecting previously unselected package libsynctex2:amd64.
Preparing to unpack …/20-libsynctex2_2021.20210626.59705-1ubuntu0.2_amd64.deb
…
Unpacking libsynctex2:amd64 (2021.20210626.59705-1ubuntu0.2) …
Selecting previously unselected package libteckit0:amd64.
Preparing to unpack …/21-libteckit0_2.5.11+ds1-1_amd64.deb …
Unpacking libteckit0:amd64 (2.5.11+ds1-1) …
Selecting previously unselected package libtexlua53:amd64.
Preparing to unpack …/22-libtexlua53_2021.20210626.59705-1ubuntu0.2_amd64.deb
…
Unpacking libtexlua53:amd64 (2021.20210626.59705-1ubuntu0.2) …
Selecting previously unselected package libtexluajit2:amd64.
Preparing to unpack
…/23-libtexluajit2_2021.20210626.59705-1ubuntu0.2_amd64.deb …
Unpacking libtexluajit2:amd64 (2021.20210626.59705-1ubuntu0.2) …
Selecting previously unselected package libzzip-0-13:amd64.
Preparing to unpack …/24-libzzip-0-13_0.13.72+dfsg.1-1.1_amd64.deb …
Unpacking libzzip-0-13:amd64 (0.13.72+dfsg.1-1.1) …
Selecting previously unselected package xfonts-encodings.
Preparing to unpack …/25-xfonts-encodings_1%3a1.0.5-0ubuntu2_all.deb …
Unpacking xfonts-encodings (1:1.0.5-0ubuntu2) …
Selecting previously unselected package xfonts-utils.
Preparing to unpack …/26-xfonts-utils_1%3a7.7+6build2_amd64.deb …
Unpacking xfonts-utils (1:7.7+6build2) …
Selecting previously unselected package lmodern.
Preparing to unpack …/27-lmodern_2.004.5-6.1_all.deb …
Unpacking lmodern (2.004.5-6.1) …
Selecting previously unselected package preview-latex-style.
Preparing to unpack …/28-preview-latex-style_12.2-1ubuntu1_all.deb …
Unpacking preview-latex-style (12.2-1ubuntu1) …
Selecting previously unselected package t1utils.
Preparing to unpack …/29-t1utils_1.41-4build2_amd64.deb …
Unpacking t1utils (1.41-4build2) …
Selecting previously unselected package teckit.
```

```
Preparing to unpack …/30-teckit_2.5.11+ds1-1_amd64.deb …
Unpacking teckit (2.5.11+ds1-1) …
Selecting previously unselected package tex-gyre.
Preparing to unpack …/31-tex-gyre_20180621-3.1_all.deb …
Unpacking tex-gyre (20180621-3.1) …
Selecting previously unselected package texlive-binaries.
Preparing to unpack …/32-texlive-
binaries_2021.20210626.59705-1ubuntu0.2_amd64.deb …
Unpacking texlive-binaries (2021.20210626.59705-1ubuntu0.2) …
Selecting previously unselected package texlive-base.
Preparing to unpack …/33-texlive-base_2021.20220204-1_all.deb …
Unpacking texlive-base (2021.20220204-1) …
Selecting previously unselected package texlive-fonts-recommended.
Preparing to unpack …/34-texlive-fonts-recommended_2021.20220204-1_all.deb …
Unpacking texlive-fonts-recommended (2021.20220204-1) …
Selecting previously unselected package texlive-latex-base.
Preparing to unpack …/35-texlive-latex-base_2021.20220204-1_all.deb …
Unpacking texlive-latex-base (2021.20220204-1) …
Selecting previously unselected package libfontbox-java.
Preparing to unpack …/36-libfontbox-java_1%3a1.8.16-2_all.deb …
Unpacking libfontbox-java (1:1.8.16-2) …
Selecting previously unselected package libpdfbox-java.
Preparing to unpack …/37-libpdfbox-java_1%3a1.8.16-2_all.deb …
Unpacking libpdfbox-java (1:1.8.16-2) …
Selecting previously unselected package texlive-latex-recommended.
Preparing to unpack …/38-texlive-latex-recommended_2021.20220204-1_all.deb …
Unpacking texlive-latex-recommended (2021.20220204-1) …
Selecting previously unselected package texlive-pictures.
Preparing to unpack …/39-texlive-pictures_2021.20220204-1_all.deb …
Unpacking texlive-pictures (2021.20220204-1) …
Selecting previously unselected package texlive-latex-extra.
Preparing to unpack …/40-texlive-latex-extra_2021.20220204-1_all.deb …
Unpacking texlive-latex-extra (2021.20220204-1) …
Selecting previously unselected package texlive-plain-generic.
Preparing to unpack …/41-texlive-plain-generic_2021.20220204-1_all.deb …
Unpacking texlive-plain-generic (2021.20220204-1) …
Selecting previously unselected package tipa.
Preparing to unpack …/42-tipa_2%3a1.3-21_all.deb …
Unpacking tipa (2:1.3-21) …
Selecting previously unselected package texlive-xetex.
Preparing to unpack …/43-texlive-xetex_2021.20220204-1_all.deb …
Unpacking texlive-xetex (2021.20220204-1) …
Setting up fonts-lato (2.0-2.1) …
Setting up libwoff1:amd64 (1.0.2-1build4) …
Setting up libtexlua53:amd64 (2021.20210626.59705-1ubuntu0.2) …
Setting up libtexluajit2:amd64 (2021.20210626.59705-1ubuntu0.2) …
Setting up libfontbox-java (1:1.8.16-2) …
Setting up rubygems-integration (1.18) …
```

```
Setting up libzzip-0-13:amd64 (0.13.72+dfsg.1-1.1) …
Setting up tex-common (6.17) …
update-language: texlive-base not installed and configured, doing nothing!
Setting up libteckit0:amd64 (2.5.11+ds1-1) …
Setting up libapache-pom-java (18-1) …
Setting up ruby-net-telnet (0.1.1-2) …
Setting up xfonts-encodings (1:1.0.5-0ubuntu2) …
Setting up t1utils (1.41-4build2) …
Setting up fonts-texgyre (20180621-3.1) …
Setting up libkpathsea6:amd64 (2021.20210626.59705-1ubuntu0.2) …
Setting up ruby-webrick (1.7.0-3ubuntu0.1) …
Setting up fonts-lmodern (2.004.5-6.1) …
Setting up ruby-xmlrpc (0.3.2-1ubuntu0.1) …
Setting up libsynctex2:amd64 (2021.20210626.59705-1ubuntu0.2) …
Setting up teckit (2.5.11+ds1-1) …
Setting up libpdfbox-java (1:1.8.16-2) …
Setting up preview-latex-style (12.2-1ubuntu1) …
Setting up libcommons-parent-java (43-1) …
Setting up dvisvgm (2.13.1-1) …
Setting up libcommons-logging-java (1.2-2) …
Setting up xfonts-utils (1:7.7+6build2) …
Setting up libptexenc1:amd64 (2021.20210626.59705-1ubuntu0.2) …
Setting up texlive-binaries (2021.20210626.59705-1ubuntu0.2) …
update-alternatives: using /usr/bin/xdvi-xaw to provide /usr/bin/xdvi.bin
(xdvi.bin) in auto mode
update-alternatives: using /usr/bin/bibtex.original to provide /usr/bin/bibtex
(bibtex) in auto mode
Setting up lmodern (2.004.5-6.1) …
Setting up texlive-base (2021.20220204-1) …
/usr/bin/ucfr
/usr/bin/ucfr
/usr/bin/ucfr
/usr/bin/ucfr
mktexlsr: Updating /var/lib/texmf/ls-R-TEXLIVEDIST…
mktexlsr: Updating /var/lib/texmf/ls-R-TEXMFMAIN…
mktexlsr: Updating /var/lib/texmf/ls-R…
mktexlsr: Done.
tl-paper: setting paper size for dvips to a4:
/var/lib/texmf/dvips/config/config-paper.ps
tl-paper: setting paper size for dvipdfmx to a4:
/var/lib/texmf/dvipdfmx/dvipdfmx-paper.cfg
tl-paper: setting paper size for xdvi to a4: /var/lib/texmf/xdvi/XDvi-paper
tl-paper: setting paper size for pdftex to a4: /var/lib/texmf/tex/generic/tex-
ini-files/pdftexconfig.tex
Setting up tex-gyre (20180621-3.1) …
Setting up texlive-plain-generic (2021.20220204-1) …
Setting up texlive-latex-base (2021.20220204-1) …
Setting up texlive-latex-recommended (2021.20220204-1) …
```

```
Setting up texlive-pictures (2021.20220204-1) …
Setting up texlive-fonts-recommended (2021.20220204-1) …
Setting up tipa (2:1.3-21) …
Setting up texlive-latex-extra (2021.20220204-1) …
Setting up texlive-xetex (2021.20220204-1) …
Setting up rake (13.0.6-2) …
Setting up libruby3.0:amd64 (3.0.2-7ubuntu2.10) …
Setting up ruby3.0 (3.0.2-7ubuntu2.10) …
Setting up ruby (1:3.0~exp1) …
Setting up ruby-rubygems (3.3.5-2) …
Processing triggers for man-db (2.10.2-1) …
Processing triggers for mailcap (3.70+nmu1ubuntu1) …
Processing triggers for fontconfig (2.13.1-4.2ubuntu5) …
Processing triggers for libc-bin (2.35-0ubuntu3.8) …
/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_0.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero.so.0 is not a
symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_opencl.so.0 is not a symbolic
link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero_v2.so.0 is not a
symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbb.so.12 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm_debug.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_loader.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libhwloc.so.15 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtcm.so.1 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc_proxy.so.2 is not a symbolic
link

/sbin/ldconfig.real: /usr/local/lib/libumf.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_5.so.3 is not a symbolic link

Processing triggers for tex-common (6.17) …
Running updmap-sys. This may take some time… done.
```

```
Running mktexlsr /var/lib/texmf … done.
Building format(s) --all.
        This may take some time… done.
```

[2]:
```python
# Import Google Drive
from google.colab import drive
drive.mount('/content/drive')
```

```
Mounted at /content/drive
```

[3]:
```
%shell jupyter nbconvert --to pdf '/content/drive/MyDrive/Colab Notebooks/
 ↪AAI-511-IN2_Final Project Team-13_Music_Composer.ipynb'
```

```
[NbConvertApp] Converting notebook /content/drive/MyDrive/Colab
Notebooks/AAI-511-IN2_Final Project Team-13_Music_Composer.ipynb to pdf
[NbConvertApp] Support files will be in AAI-511-IN2_Final Project
Team-13_Music_Composer_files/
[NbConvertApp] Making directory ./AAI-511-IN2_Final Project
Team-13_Music_Composer_files
[NbConvertApp] Writing 956402 bytes to notebook.tex
[NbConvertApp] Building PDF
[NbConvertApp] Running xelatex 3 times: ['xelatex', 'notebook.tex', '-quiet']
[NbConvertApp] Running bibtex 1 time: ['bibtex', 'notebook']
[NbConvertApp] WARNING | bibtex had problems, most likely because there were no
citations
[NbConvertApp] PDF successfully created
[NbConvertApp] Writing 1873092 bytes to /content/drive/MyDrive/Colab
Notebooks/AAI-511-IN2_Final Project Team-13_Music_Composer.pdf
```

[3]: