

# Group8\_Final\_Notebook

August 11, 2025

<https://github.com/Prisze/AAI-511FinalProject>

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[ ]: !unzip dataset.zip
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Archive:  dataset.zip
  creating:  dataset/
  creating:  dataset/Mozart/
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inflating:  dataset/Mozart/K393 Solfeggi n4.mid
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inflating:  dataset/Mozart/Piano Sonatas/Piano Sonata n11 K331.mid
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1mov.mid
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 1mov.mid  
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minuet.mid

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Wunden Chorus.mid  
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Heiland sterban Soprano Aria.mid  
inflatng: dataset/Bach/Bwv244 St. Matthew Passion/10.Wir setzen uns mit  
Tra"nen nieder Chorus.mid  
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Wangen nichts erlangen Alto Aria.mid  
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weider Bass Aria.mid  
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Aria.mid  
inflatng: dataset/Bach/Bwv244 St. Matthew Passion/6.Herzliebster Jesu  
Chorus.mid  
inflatng: dataset/Bach/Bwv244 St. Matthew Passion/4.Blute nur du liebes Herz  
Soprano Aria.mid  
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Alto Aria.mid  
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 n1.mid  
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 Ricercare a 3.MID  
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 Trio-Allegro.MID  
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 Ricercare a 6.MID  
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inflating: dataset/Bach/Bwv1079 The Musical Offering/Musical Offering n11.MID  
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 inflating: dataset/Beethoven/Lieder op48 n3 ''Vom Tode''.mid  
 inflating: dataset/Beethoven/Wo0055 Prelude.mid  
 inflating: dataset/Beethoven/Violin Concerto op61 1mov.mid  
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 inflating: dataset/Beethoven/Sieben Bagatellen, in A Major, Opus.33, No.4.mid  
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 inflating: dataset/Beethoven/Wo0086 Scottish.mid  
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 inflating: dataset/Beethoven/Wo0051 Sonatina 1-2 movs.mid  
 inflating: dataset/Beethoven/Piano Concerto No5,Mov.3.mid  
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 inflating: dataset/Beethoven/Bagatella Fur Elise.mid  
 inflating: dataset/Beethoven/Piano Sonata No.27, 3rd mov.mid  
 inflating: dataset/Beethoven/Wo0048 Rondo.mid  
 inflating: dataset/Beethoven/String Quartet n16 op135 3mov.mid  
 inflating: dataset/Beethoven/Sonatina Wo0050.mid  
 inflating: dataset/Beethoven/Violin Concerto op61 2-3movs.mid  
 creating: dataset/Beethoven/Piano Sonatas/  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n14 op27  
 ''Moonlight''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n21 2mov  
 ''Waldstein''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n10 2mov.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano sonata n32 op111.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n27.mid  
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inflating: dataset/Beethoven/Piano Sonatas/Piano sonata n26 ''Les Adieux''.mid  
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 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n28.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n29 Op106  
 ''Hammerklavier''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n24.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n15 ''Pastoral''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n17 ''Tempestat''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n23 op57 3mov  
 ''Apassionata''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n14 op27 1mov  
 ''Moonlight''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n14 op27 2mov  
 ''Moonlight''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n11.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n04.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n19.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n21 1mov  
 ''Waldstein''.mid  
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 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n16.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n23 op57 1mov  
 ''Apassionata''.mid  
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 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n10 1mov.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n21 3mov  
 ''Waldstein''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n02.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n15 3mov  
 ''Pastoral''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n08 op13 3mov  
 ''Pathetique''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n20.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n22.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n09.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n10.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n08 op13 2mov  
 ''Pathetique''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n23 op57 2mov  
 ''Apassionata''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n15 2mov  
 ''Pastoral''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n18 ''The Hunt''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n08 op13 1mov  
 ''Pathetique''.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n14 op27 3mov  
 ''Moonlight''.mid

inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n01.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n05.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n31 op110.mid  
 inflating: dataset/Beethoven/Piano Sonatas/Piano Sonata n25.mid  
 inflating: dataset/Beethoven/Piano Sonata No2 Assai vivace.mid  
 inflating: dataset/Beethoven/Sonatina n1 op05.mid  
 inflating: dataset/Beethoven/String Quartet n16 op135 2mov.mid  
 inflating: dataset/Beethoven/Andante in F Major.mid  
 inflating: dataset/Beethoven/Sketch for Piano Alla Marcia.mid  
 inflating: dataset/Beethoven/Fur Elise.mid  
 inflating: dataset/Beethoven/Overture ''Leonore'' n3 op72.mid  
 inflating: dataset/Beethoven/Overture ''Creatures Of Prometheus'' op43.mid  
 inflating: dataset/Beethoven/Piano Concerto n1 op15 3mov.mid  
 inflating: dataset/Beethoven/Romance piano.mid  
 inflating: dataset/Beethoven/Overture ''Leonore'' n2 op72.mid  
 inflating: dataset/Beethoven/March No.3.mid  
 inflating: dataset/Beethoven/Hess073 Bagatella.mid  
 inflating: dataset/Beethoven/Wo0083 Six Escotish Dances for Piano.mid  
 inflating: dataset/Beethoven/Bagatella op33 n6.mid  
 inflating: dataset/Beethoven/Bagatella op33 n1.mid  
 inflating: dataset/Beethoven/Overture ''Egmont''.mid  
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 inflating: dataset/Beethoven/String Quartet n16 op135 4mov.mid  
 inflating: dataset/Beethoven/Lieder op48 n6 ''Busslied''.mid  
 inflating: dataset/Beethoven/String Quartet n1 op18 3mov.mid  
 inflating: dataset/Beethoven/op077 Fantaisie.mid  
 inflating: dataset/Beethoven/Piano Concerto n1 op15 1mov.mid  
 inflating: dataset/Beethoven/Preludes 2 Through Major keys 39.mid  
 inflating: dataset/Beethoven/Piano Concerto n3 op37 1mov.mid  
 inflating: dataset/Beethoven/Piano Concerto n3 op37 3mov.mid  
 extracting: dataset/Beethoven/Complete Tempest Sonata.zip  
 inflating: dataset/Beethoven/Piano Concerto n2 op19 1mov.mid  
 inflating: dataset/Beethoven/Sonata in Bflat Major Op.106.mid  
 inflating: dataset/Beethoven/Hess063 keyb Kaplied.mid  
 extracting: dataset/Beethoven/Piano and Cello Sonata No.2 Op 5.zip  
 inflating: dataset/Beethoven/Lieder op48 n2 ''Die Liebe Des Nachsten''.mid  
 inflating: dataset/Beethoven/Overture ''Corolian'' op62.mid  
 inflating: dataset/Beethoven/Rondo in B flat.mid  
 inflating: dataset/Beethoven/Wo0056 Bagatella.mid  
 inflating: dataset/Beethoven/Sketch for Piano Presto.mid  
 inflating: dataset/Beethoven/Piano Concerto n1 op15 2mov.mid  
 inflating: dataset/Beethoven/Sketch for Piano Allegretto.mid  
 inflating: dataset/Beethoven/Lieder op46 ''Adelaide''.mid  
 inflating: dataset/Beethoven/Wo0061a Mouvement Pour Piano.mid  
 extracting: dataset/Beethoven/Piano Sonata No.18.zip  
 inflating: dataset/Beethoven/Sonatina Fa maj woo.mid  
 inflating: dataset/Beethoven/Sechs Variationen.mid



inflating: dataset/Beethoven/Overture ''Fidelio'' op72b.mid  
 inflating: dataset/Beethoven/Sieben Bagatellen, in D Major, Opus.33, No.6.mid  
 inflating: dataset/Beethoven/Op.51.mid  
 inflating: dataset/Beethoven/Piano Concerto n4 op58 1mov.mid  
 extracting: dataset/Beethoven/Sonata No.1 in D.zip  
 inflating: dataset/Beethoven/String Quartet n2 op18 n2 4mov.mid  
 inflating: dataset/Beethoven/Op33 No.4.mid  
 inflating: dataset/Beethoven/String Quartet n2 op18 n2 1mov.mid  
 inflating: dataset/Beethoven/Rondo Opus.51, No.2.mid  
 inflating: dataset/Beethoven/Rondo Opus.51, No.1.mid  
 inflating: dataset/Beethoven/Anh08Nb1 Gavotte 4 hands.mid  
 inflating: dataset/Beethoven/Wo0049 Rondo.mid  
 inflating: dataset/Beethoven/Sieben Bagatellen, in F Major, Opus.33, No.3.mid  
 inflating: dataset/Beethoven/String Quartet n1 op18 4mov.mid  
 inflating: dataset/Beethoven/Sieben Bagatellen, in E flat Major, Opus.33,  
 No.1.mid  
 inflating: dataset/Beethoven/Bagatella op33 n3.mid  
 inflating: dataset/Beethoven/Piano Concerto n4 op58 3mov.mid  
 inflating: dataset/Beethoven/Anh06 Rondo.mid  
 inflating: dataset/Beethoven/Wo0061 Mouvement Pour Piano.mid  
 inflating: dataset/Beethoven/Opus045 Three Grandes Marches.mid  
 inflating: dataset/Beethoven/Sonata, Opus.111 C minor No.1.mid  
 inflating: dataset/Beethoven/Piano Sonata No 28 in B flat -Hammerklavier-  
 Op.106, 2nd Mov Scherzo.mid  
 inflating: dataset/Beethoven/Sketch for Piano Allegro.mid  
 inflating: dataset/Beethoven/Wo0081 Allemande.mid  
 inflating: dataset/Beethoven/op051 3 Rondos.mid  
 inflating: dataset/Beethoven/op119 Douze Bagatellas.mid  
 inflating: dataset/Beethoven/op126 Six Bagatellas.mid  
 inflating: dataset/Beethoven/Lieder op99 ''Der Mann Von Wort''.mid  
 inflating: dataset/Beethoven/Piano Concerto n2 op19 2mov.mid  
 inflating: dataset/Beethoven/Wo0060 Mouvement Pour Piano.mid  
 inflating: dataset/Beethoven/Piano Sonata No.27.mid  
 inflating: dataset/Beethoven/Sonata Presto.mid  
 inflating: dataset/Beethoven/Minuetto.mid  
 inflating: dataset/Beethoven/Sonata Opus.81a -Les Adieux- E flat No.2 & 3.mid  
 inflating: dataset/Beethoven/Lieder op48 n1 ''Bitten''.mid  
 inflating: dataset/Beethoven/Sieben Bagatellen, in C Major, Opus.33, No.5.mid  
 inflating: dataset/Beethoven/Anhang 14-3.mid  
 inflating: dataset/Beethoven/Overture ''King Stephen''.mid  
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 inflating: dataset/Beethoven/Symphonies/Symphony n1 2mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op68 n6 3mov  
 ''Pastorale''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n3 3mov ''Eroica''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n2 op36 1mov.mid

inflating: dataset/Beethoven/Symphonies/Symphony op68 n6 1mov  
 ''Pastorale''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n1 3mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n1 1mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n2 op36 3mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n4 1mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n4 3mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n2 op36 4mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n7 1mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n1 4mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n4 4mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n5 op67 1mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n2 op36 2mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n3 2mov ''Eroica''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n5 op67 3-4mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op125 n9 2mov ''Choral''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op68 n6 ''Pastorale''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n7 2mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op125 n9 1mov ''Choral''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op93 n8 4mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n3 1mov ''Eroica''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n4 2mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op68 n6 2mov  
 ''Pastorale''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op125 n9 3mov ''Choral''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n7 4mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op93 n8 1mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony n7 3mov.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op93 n8 3mov .mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op125 n9 4mov ''Choral''.mid  
 inflating: dataset/Beethoven/Symphonies/Symphony op93 n8 2mov .mid  
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 inflating: dataset/Beethoven/Piano Romance No.50.mid  
 inflating: dataset/Beethoven/Sonata op78 1st mov.mid  
 inflating: dataset/Beethoven/Piano Concerto No5,Mov.1.mid  
 inflating: dataset/Beethoven/Sonata, Opus.111 C minor No.2.mid  
 inflating: dataset/Beethoven/String Quartet n16 op135 1mov.mid  
 inflating: dataset/Beethoven/Piano Concerto n5 op73 1mov ''Emperor''.mid  
 inflating: dataset/Beethoven/Lieder op48 n5 ''Gottes Macht Und Vorsehung''.mid  
 inflating: dataset/Beethoven/Seven Inversions of God Save the King.mid  
 inflating: dataset/Beethoven/String Quartet n2 op18 n2 3mov.mid  
 inflating: dataset/Beethoven/Sieben Bagatellen, C Major, Opus.33, No.2.mid  
 inflating: dataset/Beethoven/Piano Concerto n3 op37 2mov.mid  
 inflating: dataset/Beethoven/Hess061 Anglaise.mid  
 inflating: dataset/Beethoven/Overture ''Inauguration of the House'' op214.mid  
 inflating: dataset/Beethoven/Lieder op48 n4 ''Die Ehre Gottes Aus Der  
 Natur''.mid  
 inflating: dataset/Beethoven/Hess059 Exercizio Per Pianoforte.mid

```

inflating: dataset/Beethoven/op089 Polonaise.mid
inflating: dataset/Beethoven/String Quartet n1 op18 1mov.mid
inflating: dataset/Beethoven/Piano Concerto n2 op19 3mov.mid
inflating: dataset/Beethoven/Wo0052 Bagatella.mid
inflating: dataset/Beethoven/String Quartet n1 op18 2mov.mid
inflating: dataset/Beethoven/Rage over a lost pennny.mid
inflating: dataset/Beethoven/Sketch for Piano Allegro Giocoso.mid
inflating: dataset/Beethoven/Bagatella op33 n2.mid
inflating: dataset/Beethoven/32 Variations on a theme.mid
inflating: dataset/Beethoven/Hess057 Bagatella.mid
inflating: dataset/Beethoven/Sonata No.14 Op 27 Moonlight Sonata.mid
inflating: dataset/Beethoven/Piano Sonatina No.2 Op 49.mid
inflating: dataset/Beethoven/Bagatella op33 n4.mid
inflating: dataset/Beethoven/Sonata Opus.81a -Les Adieux- E flat No.1.mid

```

```
[ ]: !pip -q install pretty_midi
```

```
[ ]: import glob
paths = glob.glob('dataset/**/*.mid', recursive=True)
```

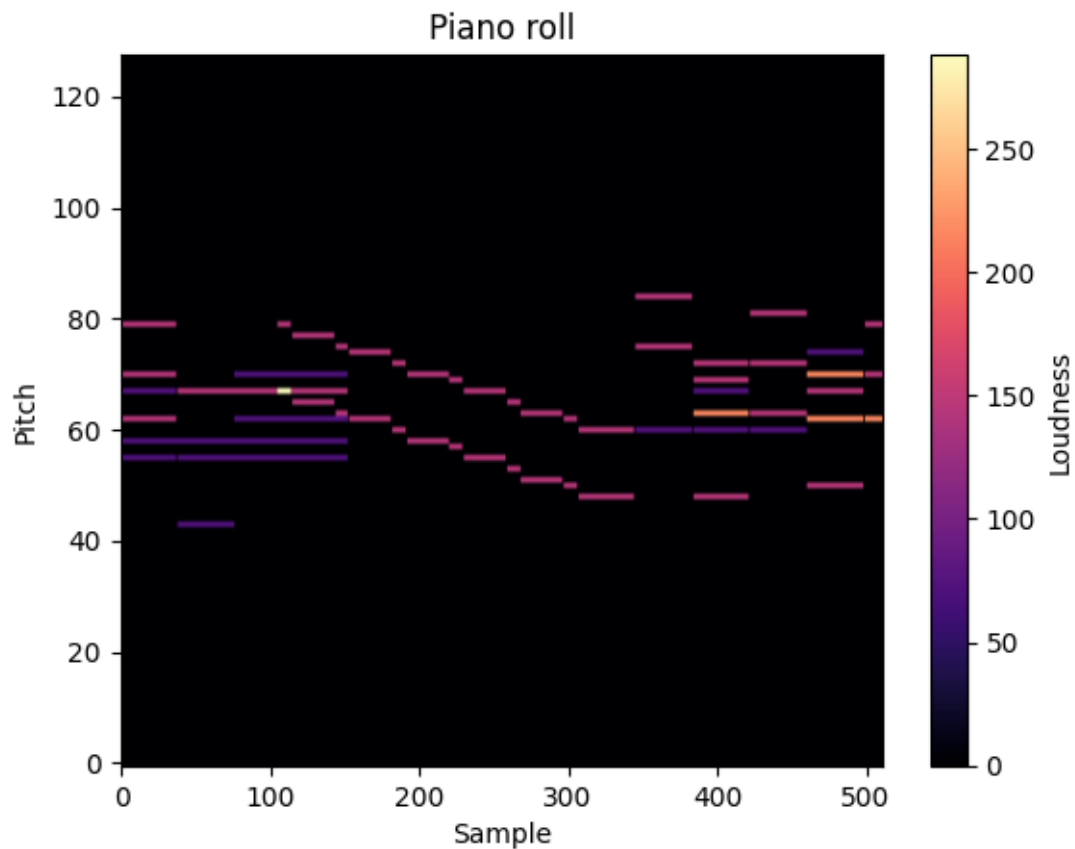
```
[ ]: len(paths)
```

```
[ ]: 1530
```

```
[ ]: import pretty_midi
midi_data = pretty_midi.PrettyMIDI(paths[0])

piano_roll = midi_data.get_piano_roll(fs=64)

from matplotlib import pyplot as plt
plt.imshow(
    piano_roll[:, :512],
    aspect='auto',
    origin='lower',
    cmap='magma'
)
plt.xlabel('Sample')
plt.ylabel('Pitch')
plt.title('Piano roll')
plt.colorbar(label='Loudness')
plt.show()
```



```
[ ]: from collections import defaultdict
from pathlib import Path
import random
import numpy as np
import pretty_midi
import tqdm

FS = 64
TARGET_N_PER_COMPOSER = 1_843_200 # 8 hours @ FS = 64

groups = defaultdict(list)
for p in paths:
    parts = Path(p).parts
    if len(parts) > 1:
        groups[parts[1]].append(p)

midis = {k: [] for k in groups}
totals = {k: 0 for k in groups}
```

```

for composer, plist in groups.items():
    random.shuffle(plist)
    with tqdm.tqdm(total=TARGET_N_PER_COMPOSER, desc=f'{composer}',
        unit='frames') as pbar:
        for path in plist:
            if totals[composer] >= TARGET_N_PER_COMPOSER:
                break
            try:
                # Load track
                midi = pretty_midi.PrettyMIDI(path)
                roll = midi.get_piano_roll(fs=FS).astype(np.float32)

                # Normalize amplitude
                mx = roll.max()
                if mx > 0:
                    roll = roll / mx

                N = int(roll.shape[1])
                remain = TARGET_N_PER_COMPOSER - totals[composer]
                if N <= 0 or remain <= 0:
                    continue

                if N <= remain:
                    midis[composer].append(roll)
                    totals[composer] += N
                    pbar.update(N)
                else:
                    midis[composer].append(roll[:, :remain])
                    totals[composer] += remain
                    pbar.update(remain)
                    break

            except Exception as e:
                print(f'Skipping "{path}"')
                continue

        if totals[composer] < TARGET_N_PER_COMPOSER:
            print(f'Warning: {composer} reached only {totals[composer]}/
                {TARGET_N_PER_COMPOSER} frames.')

print('')
for composer, total in totals.items():
    print(f'{composer}: total N = {total} ({len(midis[composer])} clips)')

```

```

Mozart: 12%|          | 224710/1843200 [00:03<00:24,
65129.36frames/s]/usr/local/lib/python3.11/dist-
packages/pretty_midi/pretty_midi.py:100: RuntimeWarning: Tempo, Key or Time

```

signature change events found on non-zero tracks. This is not a valid type 0 or type 1 MIDI file. Tempo, Key or Time Signature may be wrong.

```
warnings.warn(
Mozart: 100%|      | 1843200/1843200 [00:24<00:00, 74762.91frames/s]
Bach: 100%|      | 1843200/1843200 [00:15<00:00, 121691.68frames/s]
Chopin: 100%|     | 1843200/1843200 [00:18<00:00, 99698.52frames/s]
Beethoven: 100%|   | 1843200/1843200 [00:23<00:00, 78981.53frames/s]
```

```
Mozart: total N = 1843200 (74 clips)
Bach: total N = 1843200 (204 clips)
Chopin: total N = 1843200 (131 clips)
Beethoven: total N = 1843200 (63 clips)
```

```
[ ]: from sklearn.model_selection import train_test_split

X, y = [], []
for label, samples in midis.items():
    for s in samples:
        X.append(s)
        y.append(label)

X_train, X_test, y_train, y_test = train_test_split(
    X, y, test_size=0.2, random_state=42, shuffle=True, stratify=y)

def rebuild(xs, ys):
    out = {}
    for s, lbl in zip(xs, ys):
        out.setdefault(lbl, []).append(s)
    return out

train_data, test_data = rebuild(X_train, y_train), rebuild(X_test, y_test)
```

```
[ ]: for key, arr_list in train_data.items():
    total_N = sum(arr.shape[1] for arr in arr_list)
    print(f'{key}: total N = {total_N}')
```

```
Bach: total N = 1466818
Chopin: total N = 1349266
Beethoven: total N = 1409106
Mozart: total N = 1457362
```

```
[ ]: import torch
from torch.utils.data import Dataset, DataLoader
import numpy as np

class ChunkedMidiDataset(Dataset):
```

```

def __init__(self, data, chunk_width):
    super().__init__()

    pairs = [(s, lbl) for lbl, lst in data.items() for s in lst]
    labels = sorted({lbl for _, lbl in pairs})
    self.label_to_id = {lbl: i for i, lbl in enumerate(labels)}
    self.id_to_label = {v: k for k, v in self.label_to_id.items()}
    self.chunk_width = int(chunk_width)

    self._chunks = []
    self._labels = []

    for arr, lbl in pairs:
        T = arr.shape[1]
        n_chunks_in_sample = T // self.chunk_width
        if n_chunks_in_sample == 0:
            print('Warning: skipping sample with length less than chunk width')
            continue

        for k in range(n_chunks_in_sample):
            start = k * self.chunk_width
            stop = start + self.chunk_width
            chunk = arr[:, start:stop]
            chunk_t = torch.from_numpy(chunk).to(torch.float32)
            self._chunks.append(chunk_t)
            self._labels.append(self.label_to_id[lbl])

    def __len__(self):
        return len(self._chunks)

    def __getitem__(self, idx):
        return self._chunks[idx], self._labels[idx]

train_ds = ChunkedMidiDataset(train_data, chunk_width=512)
test_ds = ChunkedMidiDataset(test_data, chunk_width=512)

train_loader = DataLoader(train_ds, batch_size=128, shuffle=True)
test_loader = DataLoader(test_ds, batch_size=128)

```

```

[ ]: import torch
import torch.nn as nn
import torch.nn.functional as F

CNN_DEFAULT_CONFIG = [
    {'c': 16, 'k': (3, 7), 's': (1, 2), 'p': (1, 3)},
    {'c': 32, 'k': (3, 5), 's': (1, 2), 'p': (1, 2)},
    {'c': 64, 'k': (3, 3), 's': (1, 2), 'p': (1, 1)},

```

```

]

class MidiCNN(nn.Module):
    def conv_block(self, in_c, c, k, s, p):
        return nn.Sequential(
            nn.Conv2d(in_c, c, kernel_size=k, stride=s, padding=p, bias=False),
            nn.BatchNorm2d(c),
            nn.ReLU(inplace=True),
        )

    def __init__(self, num_classes=4, blocks=CNN_DEFAULT_CONFIG, dropout=0.1):
        super().__init__()

        cnn_blocks = []
        last_c = 1
        for block_cfg in blocks:
            block = self.conv_block(in_c = last_c, **block_cfg)
            last_c = block_cfg['c']
            cnn_blocks.append(block)
        self.cnn_blocks = nn.Sequential(*cnn_blocks)

        self.drop = nn.Dropout(dropout)
        self.fc = nn.Linear(last_c, num_classes)

    def _norm_input(self, x):
        # Make sure we end up at (B, 1, 128, N)
        if x.ndim == 2:
            # (128, N)
            x = x.unsqueeze(0).unsqueeze(0)
        elif x.ndim == 3:
            # (B, 128, N) or (B, N, 128)
            if x.shape[1] == 128: # (B, 128, N)
                x = x.unsqueeze(1) # -> (B, 1, 128, N)
            elif x.shape[2] == 128: # (B, N, 128)
                x = x.permute(0, 2, 1).unsqueeze(1) # -> (B, 1, 128, N)
            else:
                raise ValueError(f'Expected a 128-pitch axis; got {tuple(x.shape)}')
        elif x.ndim == 4:
            # (B, C, H, W) require C=1, H=128
            if x.shape[1] != 1 or x.shape[2] != 128:
                raise ValueError(f'Expected (B,1,128,N); got {tuple(x.shape)}')
            else:
                raise ValueError(f'Expected 2D/3D/4D input; got {x.ndim}D')
        return x

    def forward(self, x):
        x = self._norm_input(x)

```



```

x = self.cnn_blocks(x)

x = x.mean(dim=(2, 3), keepdim=True)
x = x.flatten(1)
x = self.drop(x)
return self.fc(x)

```

```

[ ]: import torch
import torch.nn as nn

class MidiRNN(nn.Module):
    def __init__(self, num_classes=4, hidden_size=128, num_layers=2,
                  bidirectional=True, rnn_type='gru', dropout=0.1,
                  temporal_pool='mean'):
        super().__init__()

        self.hidden_size = hidden_size
        self.num_layers = num_layers
        self.bidirectional = bidirectional
        self.temporal_pool = temporal_pool.lower()
        self.dirs = 2 if bidirectional else 1
        rnn_dropout = dropout if num_layers > 1 else 0.0

        if rnn_type.lower() == 'lstm':
            self.rnn_type = 'lstm'
            self.rnn = nn.LSTM(
                input_size=128, hidden_size=hidden_size,
                num_layers=num_layers, batch_first=True,
                bidirectional=bidirectional, dropout=rnn_dropout
            )
        else:
            self.rnn_type = 'gru'
            self.rnn = nn.GRU(
                input_size=128, hidden_size=hidden_size,
                num_layers=num_layers, batch_first=True,
                bidirectional=bidirectional, dropout=rnn_dropout
            )

        self.head = nn.Sequential(
            nn.Dropout(dropout),
            nn.Linear(hidden_size * self.dirs, num_classes)
        )

    def _to_seq(self, x: torch.Tensor) -> torch.Tensor:
        # -> (B, N, 128)
        if x.ndim == 2: # (128, N) or (N, 128)

```

```

        x = x.T if x.shape[0] == 128 else x
        x = x.unsqueeze(0) # (1, N, 128)
    elif x.ndim == 3:
        if x.shape[1] == 128 and x.shape[2] != 128: # (B, 128, N)
            x = x.permute(0, 2, 1) # -> (B, N, 128)
        elif x.shape[2] == 128: # (B, N, 128)
            pass
        else:
            raise ValueError(f'Expected (B,128,N) or (B,N,128); got {tuple(x.
↪shape)}')
    elif x.ndim == 4:
        # (B, C, 128, N) -> squeeze/avg channels, then permute
        if x.shape[1] == 1:
            x = x.squeeze(1) # (B, 128, N)
        else:
            x = x.mean(dim=1) # (B, 128, N)
        x = x.permute(0, 2, 1) # (B, N, 128)
    else:
        raise ValueError(f'Expected 2D/3D/4D input; got {x.ndim}D')
    return x.float()

def _pool(self, out, h):
    if self.temporal_pool == 'mean':
        return out.mean(dim=1) # (B, H*dirs)
    elif self.temporal_pool == 'last':
        if self.rnn_type == 'lstm':
            h_n = h[0] # (L*dirs, B, H)
        else:
            h_n = h # (L*dirs, B, H)

        if self.bidirectional:
            f = h_n[-2] # (B, H)
            b = h_n[-1] # (B, H)
            return torch.cat([f, b], dim=1) # (B, 2H)
        else:
            return h_n[-1] # (B, H)
    else:
        raise ValueError('temporal_pool must be "mean" or "last"')

def forward(self, x):
    x = self._to_seq(x)
    out, h = self.rnn(x)
    feat = self._pool(out, h)
    return self.head(feat)

```

```

[ ]: import torch
import torch.nn as nn

```

```

class MidiFCN(nn.Module):
    def __init__(self, num_classes=4, n_time=512, dropout=0.1):
        super().__init__()
        self.n_time = n_time
        in_features = 128 * n_time
        self.drop = nn.Dropout(dropout)
        self.fc = nn.Linear(in_features, num_classes)

    def _norm_input(self, x):
        # Make sure we end up at (B, 1, 128, N)
        if x.ndim == 2:
            # (128, N)
            x = x.unsqueeze(0).unsqueeze(0)
        elif x.ndim == 3:
            # (B, 128, N) or (B, N, 128)
            if x.shape[1] == 128: # (B, 128, N)
                x = x.unsqueeze(1) # -> (B,1,128,N)
            elif x.shape[2] == 128: # (B, N, 128)
                x = x.permute(0, 2, 1).unsqueeze(1) # -> (B,1,128,N)
            else:
                raise ValueError(f'Expected a 128-pitch axis; got {tuple(x.shape)}')
        elif x.ndim == 4:
            # (B, C, H, W) require C=1, H=128
            if x.shape[1] != 1 or x.shape[2] != 128:
                raise ValueError(f'Expected (B,1,128,N); got {tuple(x.shape)}')
            else:
                raise ValueError(f'Expected 2D/3D/4D input; got {x.ndim}D')
        return x

    def forward(self, x):
        x = self._norm_input(x)
        N = x.shape[-1]
        if N != self.n_time:
            raise ValueError(f'Expected N={self.n_time}, got N={N}. Either fix inputs_
↳ or add padding/cropping.')

        x = x.squeeze(1)
        x = x.flatten(1)
        x = self.drop(x)
        return self.fc(x)

```

```

[ ]: import torch
import torch.nn as nn
import torch.optim as optim
from torch.optim import lr_scheduler

```

```

device = torch.device('cuda' if torch.cuda.is_available() else 'cpu')
criterion = nn.CrossEntropyLoss()

def train_model(model, optimizer, num_epochs, scheduler=None):
    device = next(model.parameters()).device
    GRAD_CLIP_NORM = 1.0

    best_state = None
    best_test_acc = -1.0
    best_epoch = 1

    train_acc_history, test_acc_history = [], []

    def _current_lr(opt):
        return opt.param_groups[0]['lr']

    for epoch in range(num_epochs):
        # Training
        model.train()
        running_loss = 0.0
        correct = 0
        total = 0

        for inputs, targets in train_loader:
            inputs = inputs.to(device, non_blocking=True)
            targets = targets.to(device, non_blocking=True)

            optimizer.zero_grad(set_to_none=True)
            outputs = model(inputs)
            loss = criterion(outputs, targets)
            loss.backward()

            torch.nn.utils.clip_grad_norm_(model.parameters(), GRAD_CLIP_NORM)
            optimizer.step()

            running_loss += loss.item() * inputs.size(0)
            with torch.no_grad():
                preds = outputs.argmax(dim=1)
                correct += (preds == targets).sum().item()
                total += targets.size(0)

        train_acc = 100.0 * correct / max(1, total)
        train_loss = running_loss / max(1, total)
        train_acc_history.append(train_acc)

    # Evaluation
    model.eval()

```

```

correct = 0
total = 0
test_running_loss = 0.0
with torch.inference_mode():
    for inputs, targets in test_loader:
        inputs = inputs.to(device, non_blocking=True)
        targets = targets.to(device, non_blocking=True)
        outputs = model(inputs)
        loss = criterion(outputs, targets)
        test_running_loss += loss.item() * inputs.size(0)

        preds = outputs.argmax(dim=1)
        correct += (preds == targets).sum().item()
        total += targets.size(0)

test_acc = 100.0 * correct / max(1, total)
test_loss = test_running_loss / max(1, total)
test_acc_history.append(test_acc)

# Scheduler step
if scheduler is not None:
    if isinstance(scheduler, torch.optim.lr_scheduler.ReduceLROnPlateau):
        mode = getattr(scheduler, 'mode', 'min')
        metric = test_loss if mode == 'min' else test_acc
        scheduler.step(metric)
    else:
        scheduler.step()

# Track the best by evaluation accuracy
if test_acc > best_test_acc:
    best_test_acc = test_acc
    best_epoch = epoch + 1
    best_state = {k: v.detach().cpu().clone() for k, v in model.state_dict().
↪items()}

print(f"Epoch [{epoch+1}/{num_epochs}] "
      f"LR: {_current_lr(optimizer):.6f} "
      f"Train Loss: {train_loss:.4f} "
      f"Train Acc: {train_acc:.2f}% "
      f"Test Loss: {test_loss:.4f} "
      f"Test Acc: {test_acc:.2f}%")

if best_state is not None:
    model.load_state_dict(best_state)

return best_epoch, train_acc_history, test_acc_history

```

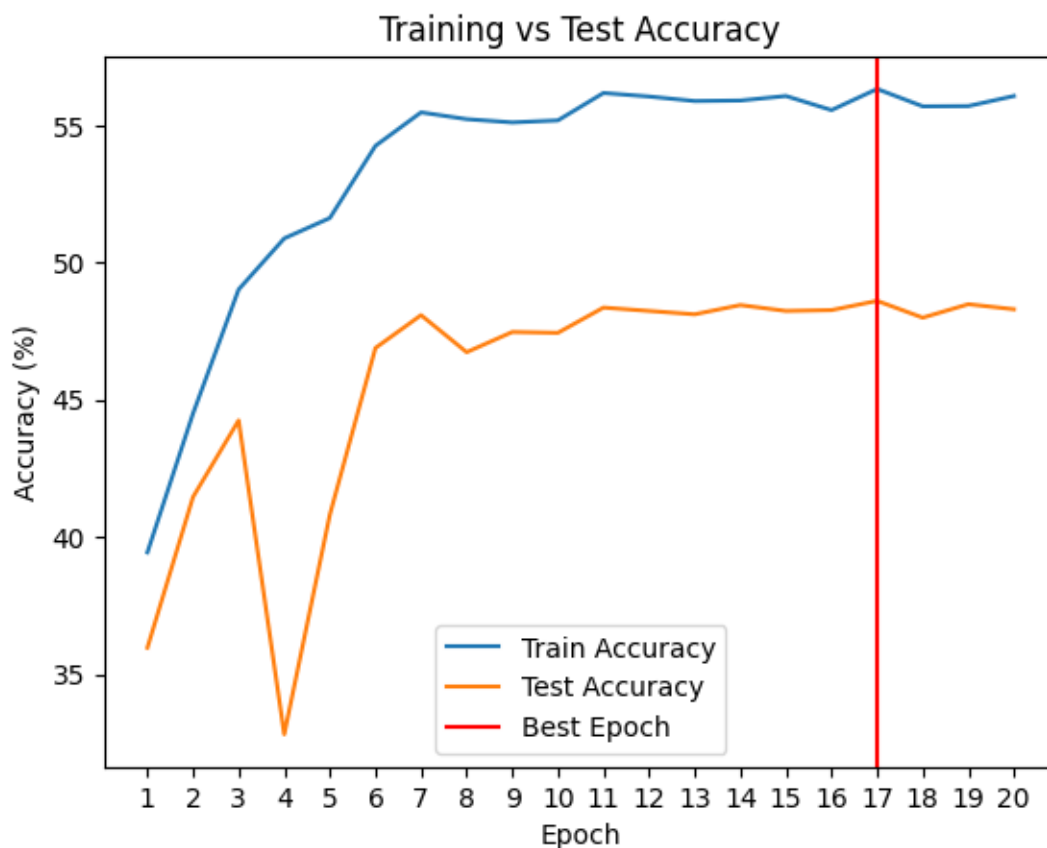
```
[ ]: def plot_train(best_epoch, train_acc_history, test_acc_history):
    epochs = range(1, len(train_acc_history) + 1)
    plt.plot(epochs, train_acc_history, label='Train Accuracy')
    plt.plot(epochs, test_acc_history, label='Test Accuracy')
    plt.axvline(best_epoch, color='r', label=f'Best Epoch')

    plt.title('Training vs Test Accuracy')
    plt.xlabel('Epoch')
    plt.ylabel('Accuracy (%)')
    plt.xticks(epochs)
    plt.legend()
    plt.show()
```

```
[ ]: model_cnn = MidiCNN().to(device)
model = model_cnn
optimizer = optim.Adam(model.parameters(), lr=1e-3)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
    ↪ num_epochs=20, scheduler=scheduler)
plot_train(best_epoch, train_acc_history, test_acc_history)
```

```
Epoch [1/20] LR: 0.001000 Train Loss: 1.2733 Train Acc: 39.44% Test Loss: 1.3479
Test Acc: 35.96%
Epoch [2/20] LR: 0.001000 Train Loss: 1.2029 Train Acc: 44.50% Test Loss: 1.2565
Test Acc: 41.45%
Epoch [3/20] LR: 0.001000 Train Loss: 1.1524 Train Acc: 49.02% Test Loss: 1.2202
Test Acc: 44.25%
Epoch [4/20] LR: 0.001000 Train Loss: 1.1087 Train Acc: 50.88% Test Loss: 1.5407
Test Acc: 32.80%
Epoch [5/20] LR: 0.000100 Train Loss: 1.0926 Train Acc: 51.62% Test Loss: 1.3116
Test Acc: 40.81%
Epoch [6/20] LR: 0.000100 Train Loss: 1.0539 Train Acc: 54.25% Test Loss: 1.1607
Test Acc: 46.89%
Epoch [7/20] LR: 0.000100 Train Loss: 1.0453 Train Acc: 55.47% Test Loss: 1.1615
Test Acc: 48.08%
Epoch [8/20] LR: 0.000100 Train Loss: 1.0391 Train Acc: 55.23% Test Loss: 1.1513
Test Acc: 46.73%
Epoch [9/20] LR: 0.000100 Train Loss: 1.0354 Train Acc: 55.11% Test Loss: 1.1514
Test Acc: 47.47%
Epoch [10/20] LR: 0.000010 Train Loss: 1.0326 Train Acc: 55.18% Test Loss:
1.1499 Test Acc: 47.44%
Epoch [11/20] LR: 0.000010 Train Loss: 1.0253 Train Acc: 56.18% Test Loss:
1.1504 Test Acc: 48.36%
Epoch [12/20] LR: 0.000010 Train Loss: 1.0281 Train Acc: 56.05% Test Loss:
1.1467 Test Acc: 48.24%
Epoch [13/20] LR: 0.000010 Train Loss: 1.0261 Train Acc: 55.89% Test Loss:
1.1478 Test Acc: 48.11%
Epoch [14/20] LR: 0.000010 Train Loss: 1.0260 Train Acc: 55.91% Test Loss:
```

1.1508 Test Acc: 48.45%  
Epoch [15/20] LR: 0.000001 Train Loss: 1.0252 Train Acc: 56.07% Test Loss:  
1.1471 Test Acc: 48.24%  
Epoch [16/20] LR: 0.000001 Train Loss: 1.0255 Train Acc: 55.56% Test Loss:  
1.1478 Test Acc: 48.27%  
Epoch [17/20] LR: 0.000001 Train Loss: 1.0250 Train Acc: 56.33% Test Loss:  
1.1497 Test Acc: 48.60%  
Epoch [18/20] LR: 0.000001 Train Loss: 1.0252 Train Acc: 55.69% Test Loss:  
1.1466 Test Acc: 47.99%  
Epoch [19/20] LR: 0.000001 Train Loss: 1.0260 Train Acc: 55.70% Test Loss:  
1.1546 Test Acc: 48.48%  
Epoch [20/20] LR: 0.000000 Train Loss: 1.0248 Train Acc: 56.07% Test Loss:  
1.1475 Test Acc: 48.30%

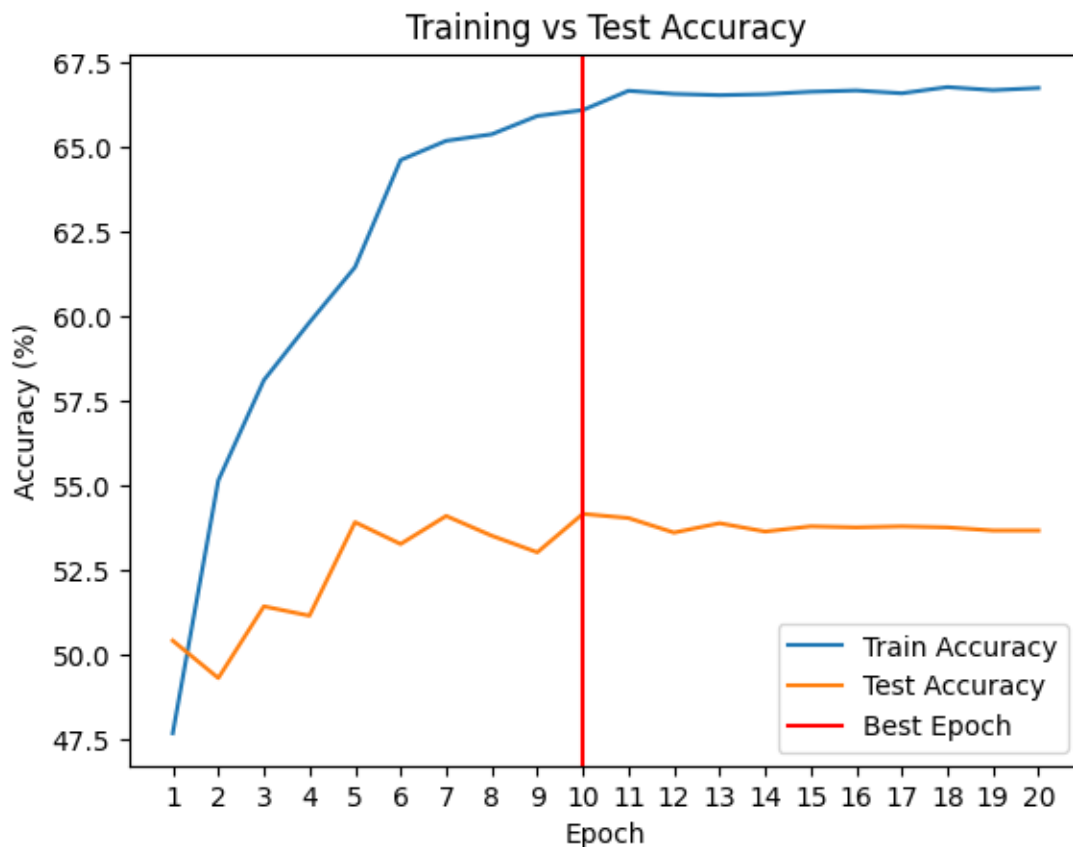


```
[ ]: model_rnn = MidiRNN().to(device)
model = model_rnn
optimizer = optim.Adam(model.parameters(), lr=1e-3)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
↪ num_epochs=20, scheduler=scheduler)
```

```
plot_train(best_epoch, train_acc_history, test_acc_history)
```

Epoch [1/20] LR: 0.001000 Train Loss: 1.1606 Train Acc: 47.68% Test Loss: 1.1328  
Test Acc: 50.41%  
Epoch [2/20] LR: 0.001000 Train Loss: 1.0246 Train Acc: 55.14% Test Loss: 1.1684  
Test Acc: 49.31%  
Epoch [3/20] LR: 0.001000 Train Loss: 0.9778 Train Acc: 58.11% Test Loss: 1.1343  
Test Acc: 51.43%  
Epoch [4/20] LR: 0.001000 Train Loss: 0.9423 Train Acc: 59.81% Test Loss: 1.1029  
Test Acc: 51.15%  
Epoch [5/20] LR: 0.000100 Train Loss: 0.9000 Train Acc: 61.44% Test Loss: 1.1172  
Test Acc: 53.91%  
Epoch [6/20] LR: 0.000100 Train Loss: 0.8479 Train Acc: 64.61% Test Loss: 1.1292  
Test Acc: 53.27%  
Epoch [7/20] LR: 0.000100 Train Loss: 0.8351 Train Acc: 65.18% Test Loss: 1.1364  
Test Acc: 54.10%  
Epoch [8/20] LR: 0.000100 Train Loss: 0.8294 Train Acc: 65.37% Test Loss: 1.1446  
Test Acc: 53.51%  
Epoch [9/20] LR: 0.000100 Train Loss: 0.8225 Train Acc: 65.91% Test Loss: 1.1328  
Test Acc: 53.02%  
Epoch [10/20] LR: 0.000010 Train Loss: 0.8187 Train Acc: 66.08% Test Loss:  
1.1395 Test Acc: 54.16%  
Epoch [11/20] LR: 0.000010 Train Loss: 0.8091 Train Acc: 66.65% Test Loss:  
1.1394 Test Acc: 54.03%  
Epoch [12/20] LR: 0.000010 Train Loss: 0.8087 Train Acc: 66.56% Test Loss:  
1.1412 Test Acc: 53.61%  
Epoch [13/20] LR: 0.000010 Train Loss: 0.8076 Train Acc: 66.52% Test Loss:  
1.1455 Test Acc: 53.88%  
Epoch [14/20] LR: 0.000010 Train Loss: 0.8079 Train Acc: 66.55% Test Loss:  
1.1434 Test Acc: 53.64%  
Epoch [15/20] LR: 0.000001 Train Loss: 0.8063 Train Acc: 66.62% Test Loss:  
1.1501 Test Acc: 53.79%  
Epoch [16/20] LR: 0.000001 Train Loss: 0.8055 Train Acc: 66.66% Test Loss:  
1.1495 Test Acc: 53.76%  
Epoch [17/20] LR: 0.000001 Train Loss: 0.8054 Train Acc: 66.58% Test Loss:  
1.1489 Test Acc: 53.79%  
Epoch [18/20] LR: 0.000001 Train Loss: 0.8053 Train Acc: 66.76% Test Loss:  
1.1484 Test Acc: 53.76%  
Epoch [19/20] LR: 0.000001 Train Loss: 0.8054 Train Acc: 66.67% Test Loss:  
1.1481 Test Acc: 53.67%  
Epoch [20/20] LR: 0.000000 Train Loss: 0.8062 Train Acc: 66.73% Test Loss:  
1.1478 Test Acc: 53.67%

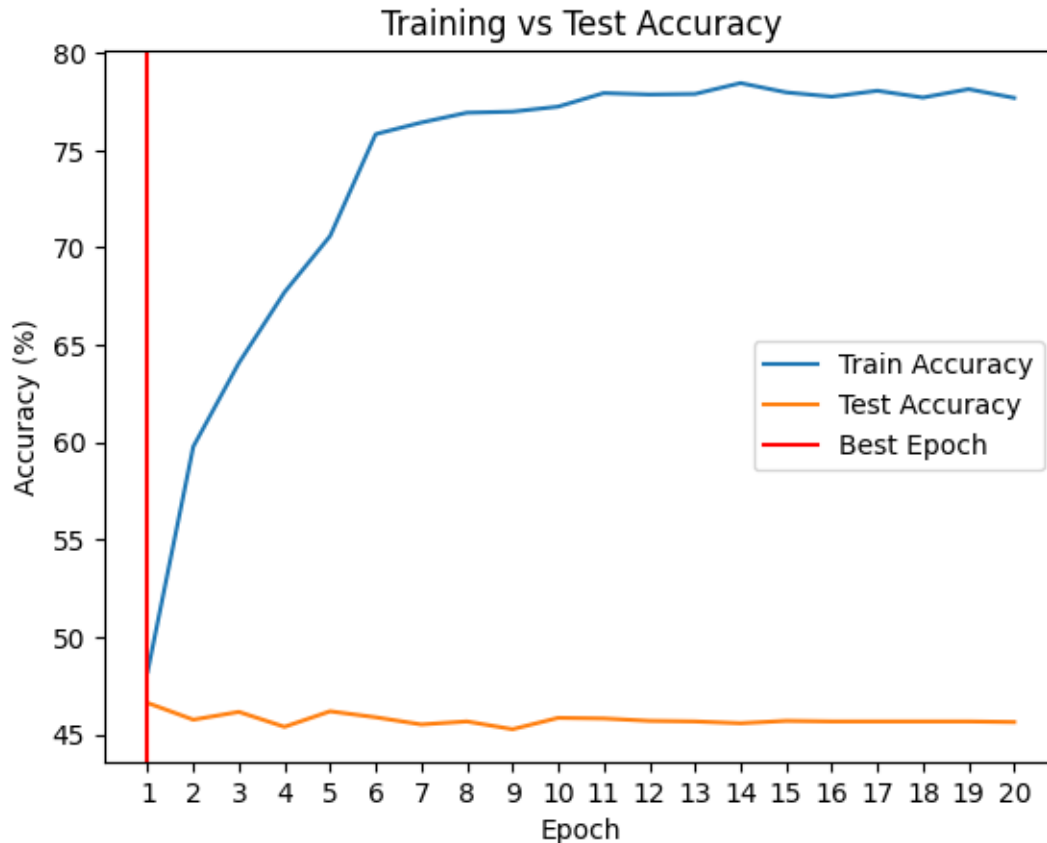




```
[ ]: model_fcn = MidiFCN().to(device)
      model = model_fcn
      optimizer = optim.Adam(model.parameters(), lr=1e-3)
      scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
      best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
      ↪ num_epochs=20, scheduler=scheduler)
      plot_train(best_epoch, train_acc_history, test_acc_history)
```

```
Epoch [1/20] LR: 0.001000 Train Loss: 1.1821 Train Acc: 48.22% Test Loss: 1.2089
Test Acc: 46.61%
Epoch [2/20] LR: 0.001000 Train Loss: 0.9992 Train Acc: 59.77% Test Loss: 1.2767
Test Acc: 45.75%
Epoch [3/20] LR: 0.001000 Train Loss: 0.9140 Train Acc: 64.07% Test Loss: 1.2803
Test Acc: 46.15%
Epoch [4/20] LR: 0.001000 Train Loss: 0.8505 Train Acc: 67.71% Test Loss: 1.3023
Test Acc: 45.38%
Epoch [5/20] LR: 0.000100 Train Loss: 0.7955 Train Acc: 70.59% Test Loss: 1.3166
Test Acc: 46.18%
Epoch [6/20] LR: 0.000100 Train Loss: 0.7045 Train Acc: 75.83% Test Loss: 1.3185
Test Acc: 45.87%
```

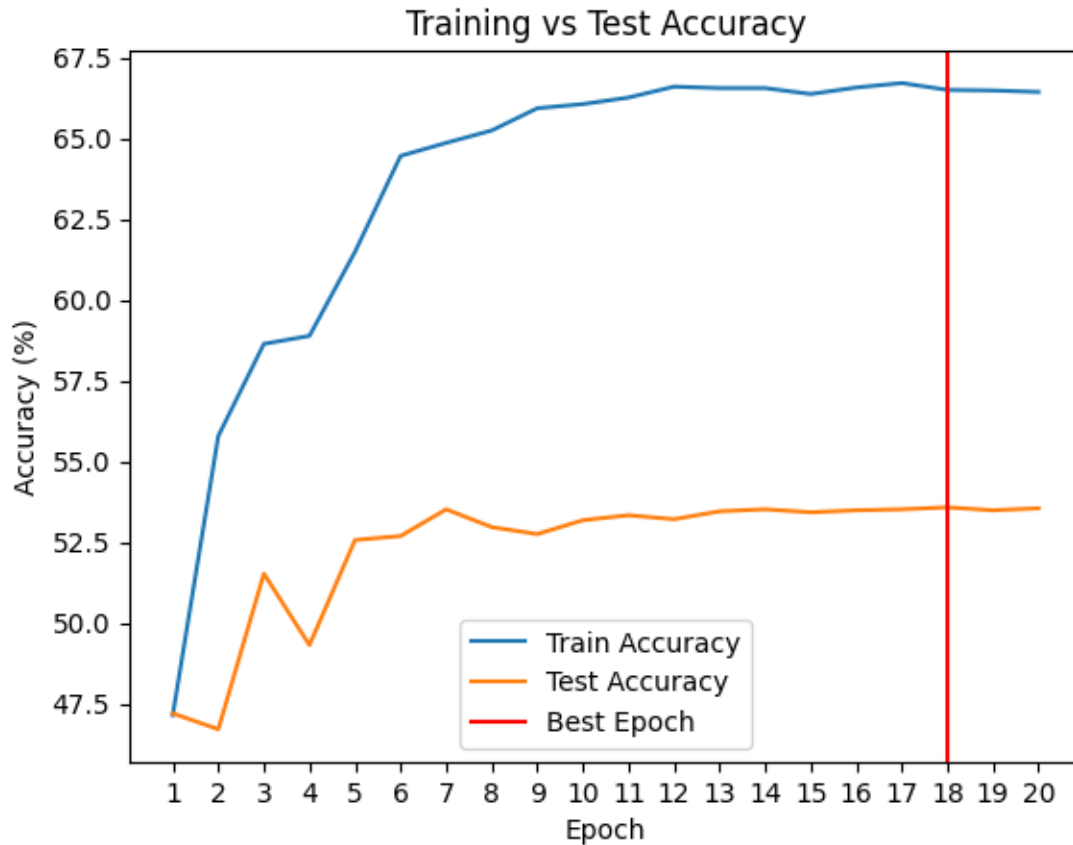
Epoch [7/20] LR: 0.000100 Train Loss: 0.6933 Train Acc: 76.43% Test Loss: 1.3215  
Test Acc: 45.50%  
Epoch [8/20] LR: 0.000100 Train Loss: 0.6874 Train Acc: 76.93% Test Loss: 1.3212  
Test Acc: 45.66%  
Epoch [9/20] LR: 0.000100 Train Loss: 0.6823 Train Acc: 76.99% Test Loss: 1.3263  
Test Acc: 45.26%  
Epoch [10/20] LR: 0.000010 Train Loss: 0.6783 Train Acc: 77.24% Test Loss:  
1.3227 Test Acc: 45.84%  
Epoch [11/20] LR: 0.000010 Train Loss: 0.6709 Train Acc: 77.94% Test Loss:  
1.3232 Test Acc: 45.81%  
Epoch [12/20] LR: 0.000010 Train Loss: 0.6700 Train Acc: 77.87% Test Loss:  
1.3239 Test Acc: 45.69%  
Epoch [13/20] LR: 0.000010 Train Loss: 0.6688 Train Acc: 77.89% Test Loss:  
1.3242 Test Acc: 45.66%  
Epoch [14/20] LR: 0.000010 Train Loss: 0.6665 Train Acc: 78.45% Test Loss:  
1.3247 Test Acc: 45.57%  
Epoch [15/20] LR: 0.000001 Train Loss: 0.6678 Train Acc: 77.98% Test Loss:  
1.3249 Test Acc: 45.69%  
Epoch [16/20] LR: 0.000001 Train Loss: 0.6672 Train Acc: 77.76% Test Loss:  
1.3250 Test Acc: 45.66%  
Epoch [17/20] LR: 0.000001 Train Loss: 0.6674 Train Acc: 78.06% Test Loss:  
1.3250 Test Acc: 45.66%  
Epoch [18/20] LR: 0.000001 Train Loss: 0.6677 Train Acc: 77.71% Test Loss:  
1.3250 Test Acc: 45.66%  
Epoch [19/20] LR: 0.000001 Train Loss: 0.6661 Train Acc: 78.14% Test Loss:  
1.3250 Test Acc: 45.66%  
Epoch [20/20] LR: 0.000000 Train Loss: 0.6670 Train Acc: 77.69% Test Loss:  
1.3251 Test Acc: 45.63%



```
[ ]: model_rnn_lstm = MidiRNN(rnn_type='lstm').to(device)
model = model_rnn_lstm
optimizer = optim.Adam(model.parameters(), lr=1e-3)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
    ↪ num_epochs=20, scheduler=scheduler)
plot_train(best_epoch, train_acc_history, test_acc_history)
```

```
Epoch [1/20] LR: 0.001000 Train Loss: 1.1529 Train Acc: 47.14% Test Loss: 1.1880
Test Acc: 47.19%
Epoch [2/20] LR: 0.001000 Train Loss: 1.0173 Train Acc: 55.79% Test Loss: 1.1676
Test Acc: 46.70%
Epoch [3/20] LR: 0.001000 Train Loss: 0.9668 Train Acc: 58.64% Test Loss: 1.1845
Test Acc: 51.52%
Epoch [4/20] LR: 0.001000 Train Loss: 0.9540 Train Acc: 58.89% Test Loss: 1.1608
Test Acc: 49.31%
Epoch [5/20] LR: 0.000100 Train Loss: 0.9045 Train Acc: 61.49% Test Loss: 1.1540
Test Acc: 52.56%
Epoch [6/20] LR: 0.000100 Train Loss: 0.8490 Train Acc: 64.46% Test Loss: 1.1415
Test Acc: 52.68%
```

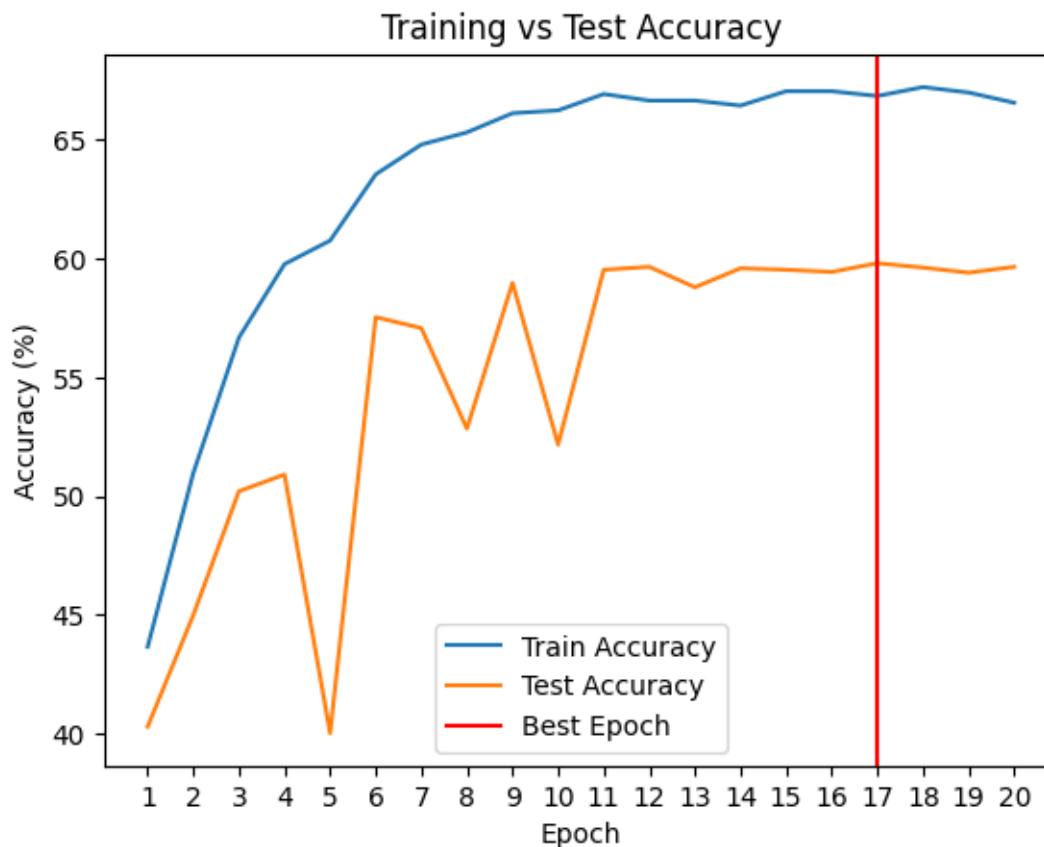
Epoch [7/20] LR: 0.000100 Train Loss: 0.8350 Train Acc: 64.86% Test Loss: 1.1459  
Test Acc: 53.51%  
Epoch [8/20] LR: 0.000100 Train Loss: 0.8286 Train Acc: 65.25% Test Loss: 1.1496  
Test Acc: 52.96%  
Epoch [9/20] LR: 0.000100 Train Loss: 0.8191 Train Acc: 65.94% Test Loss: 1.1573  
Test Acc: 52.75%  
Epoch [10/20] LR: 0.000010 Train Loss: 0.8112 Train Acc: 66.06% Test Loss:  
1.1576 Test Acc: 53.18%  
Epoch [11/20] LR: 0.000010 Train Loss: 0.8023 Train Acc: 66.27% Test Loss:  
1.1563 Test Acc: 53.33%  
Epoch [12/20] LR: 0.000010 Train Loss: 0.8017 Train Acc: 66.61% Test Loss:  
1.1566 Test Acc: 53.21%  
Epoch [13/20] LR: 0.000010 Train Loss: 0.8001 Train Acc: 66.56% Test Loss:  
1.1585 Test Acc: 53.45%  
Epoch [14/20] LR: 0.000010 Train Loss: 0.7996 Train Acc: 66.56% Test Loss:  
1.1576 Test Acc: 53.51%  
Epoch [15/20] LR: 0.000001 Train Loss: 0.7991 Train Acc: 66.38% Test Loss:  
1.1572 Test Acc: 53.42%  
Epoch [16/20] LR: 0.000001 Train Loss: 0.7976 Train Acc: 66.58% Test Loss:  
1.1567 Test Acc: 53.48%  
Epoch [17/20] LR: 0.000001 Train Loss: 0.7976 Train Acc: 66.72% Test Loss:  
1.1564 Test Acc: 53.51%  
Epoch [18/20] LR: 0.000001 Train Loss: 0.7978 Train Acc: 66.50% Test Loss:  
1.1563 Test Acc: 53.57%  
Epoch [19/20] LR: 0.000001 Train Loss: 0.7975 Train Acc: 66.49% Test Loss:  
1.1566 Test Acc: 53.48%  
Epoch [20/20] LR: 0.000000 Train Loss: 0.7973 Train Acc: 66.44% Test Loss:  
1.1567 Test Acc: 53.54%



```
[ ]: model_cnn_1 = MidiCNN(blocks=[
    {'c': 32, 'k': (9, 7), 's': (1, 2), 'p': (4, 3)},
    {'c': 64, 'k': (9, 5), 's': (1, 2), 'p': (4, 2)},
    {'c': 128, 'k': (5, 3), 's': (1, 2), 'p': (2, 1)},
]).to(device)
model = model_cnn_1
optimizer = optim.Adam(model.parameters(), lr=1e-3)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
    ↪ num_epochs=20, scheduler=scheduler)
plot_train(best_epoch, train_acc_history, test_acc_history)
```

```
Epoch [1/20] LR: 0.001000 Train Loss: 1.2016 Train Acc: 43.65% Test Loss: 1.2516
Test Acc: 40.29%
Epoch [2/20] LR: 0.001000 Train Loss: 1.0955 Train Acc: 50.96% Test Loss: 1.1756
Test Acc: 44.98%
Epoch [3/20] LR: 0.001000 Train Loss: 1.0003 Train Acc: 56.67% Test Loss: 1.1091
Test Acc: 50.20%
Epoch [4/20] LR: 0.001000 Train Loss: 0.9366 Train Acc: 59.77% Test Loss: 1.2041
Test Acc: 50.91%
```

Epoch [5/20] LR: 0.000100 Train Loss: 0.9096 Train Acc: 60.76% Test Loss: 1.5728  
Test Acc: 40.01%  
Epoch [6/20] LR: 0.000100 Train Loss: 0.8604 Train Acc: 63.54% Test Loss: 0.9861  
Test Acc: 57.53%  
Epoch [7/20] LR: 0.000100 Train Loss: 0.8377 Train Acc: 64.80% Test Loss: 0.9679  
Test Acc: 57.07%  
Epoch [8/20] LR: 0.000100 Train Loss: 0.8326 Train Acc: 65.31% Test Loss: 1.0610  
Test Acc: 52.84%  
Epoch [9/20] LR: 0.000100 Train Loss: 0.8194 Train Acc: 66.12% Test Loss: 0.9637  
Test Acc: 58.98%  
Epoch [10/20] LR: 0.000010 Train Loss: 0.8182 Train Acc: 66.24% Test Loss:  
1.0779 Test Acc: 52.16%  
Epoch [11/20] LR: 0.000010 Train Loss: 0.8063 Train Acc: 66.93% Test Loss:  
0.9550 Test Acc: 59.53%  
Epoch [12/20] LR: 0.000010 Train Loss: 0.8066 Train Acc: 66.65% Test Loss:  
0.9508 Test Acc: 59.65%  
Epoch [13/20] LR: 0.000010 Train Loss: 0.8052 Train Acc: 66.65% Test Loss:  
0.9732 Test Acc: 58.79%  
Epoch [14/20] LR: 0.000010 Train Loss: 0.8051 Train Acc: 66.44% Test Loss:  
0.9525 Test Acc: 59.59%  
Epoch [15/20] LR: 0.000001 Train Loss: 0.8015 Train Acc: 67.05% Test Loss:  
0.9571 Test Acc: 59.53%  
Epoch [16/20] LR: 0.000001 Train Loss: 0.8030 Train Acc: 67.05% Test Loss:  
0.9534 Test Acc: 59.44%  
Epoch [17/20] LR: 0.000001 Train Loss: 0.8014 Train Acc: 66.84% Test Loss:  
0.9494 Test Acc: 59.80%  
Epoch [18/20] LR: 0.000001 Train Loss: 0.8009 Train Acc: 67.22% Test Loss:  
0.9590 Test Acc: 59.62%  
Epoch [19/20] LR: 0.000001 Train Loss: 0.7994 Train Acc: 66.99% Test Loss:  
0.9592 Test Acc: 59.40%  
Epoch [20/20] LR: 0.000000 Train Loss: 0.8028 Train Acc: 66.56% Test Loss:  
0.9565 Test Acc: 59.65%

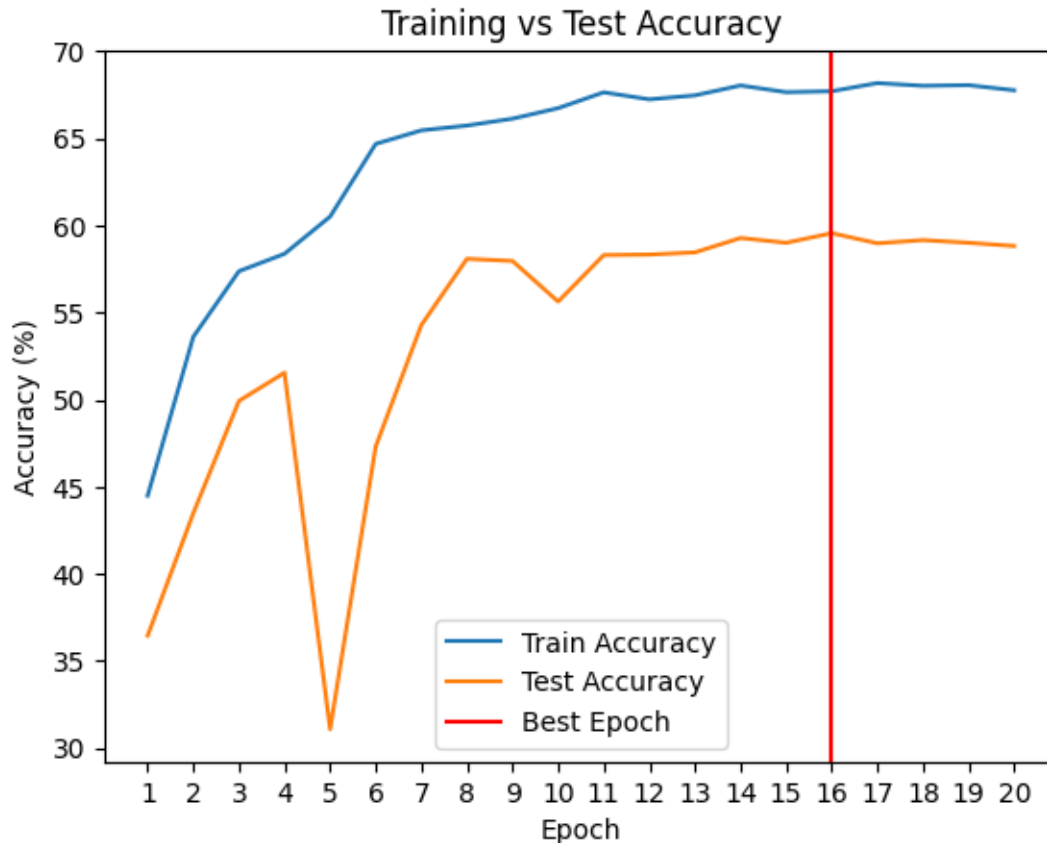


```
[ ]: model_cnn_2 = MidiCNN(blocks=[
    {'c': 32, 'k': (5, 15), 's': (1, 2), 'p': (2, 7)},
    {'c': 64, 'k': (5, 11), 's': (1, 2), 'p': (2, 5)},
    {'c': 128, 'k': (3, 7), 's': (1, 2), 'p': (1, 3)},
]).to(device)
model = model_cnn_2
optimizer = optim.Adam(model.parameters(), lr=1e-3)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
    ↪ num_epochs=20, scheduler=scheduler)
plot_train(best_epoch, train_acc_history, test_acc_history)
```

```
Epoch [1/20] LR: 0.001000 Train Loss: 1.2049 Train Acc: 44.49% Test Loss: 1.3264
Test Acc: 36.45%
Epoch [2/20] LR: 0.001000 Train Loss: 1.0586 Train Acc: 53.60% Test Loss: 1.2885
Test Acc: 43.48%
Epoch [3/20] LR: 0.001000 Train Loss: 0.9882 Train Acc: 57.37% Test Loss: 1.0741
Test Acc: 49.92%
Epoch [4/20] LR: 0.001000 Train Loss: 0.9642 Train Acc: 58.37% Test Loss: 1.1404
Test Acc: 51.55%
```

Epoch [5/20] LR: 0.000100 Train Loss: 0.9259 Train Acc: 60.51% Test Loss: 2.6980  
Test Acc: 31.08%  
Epoch [6/20] LR: 0.000100 Train Loss: 0.8644 Train Acc: 64.68% Test Loss: 1.2637  
Test Acc: 47.32%  
Epoch [7/20] LR: 0.000100 Train Loss: 0.8510 Train Acc: 65.46% Test Loss: 1.0316  
Test Acc: 54.28%  
Epoch [8/20] LR: 0.000100 Train Loss: 0.8402 Train Acc: 65.73% Test Loss: 0.9927  
Test Acc: 58.09%  
Epoch [9/20] LR: 0.000100 Train Loss: 0.8333 Train Acc: 66.13% Test Loss: 0.9810  
Test Acc: 57.96%  
Epoch [10/20] LR: 0.000010 Train Loss: 0.8257 Train Acc: 66.73% Test Loss:  
1.0579 Test Acc: 55.63%  
Epoch [11/20] LR: 0.000010 Train Loss: 0.8130 Train Acc: 67.64% Test Loss:  
0.9784 Test Acc: 58.30%  
Epoch [12/20] LR: 0.000010 Train Loss: 0.8099 Train Acc: 67.24% Test Loss:  
0.9743 Test Acc: 58.33%  
Epoch [13/20] LR: 0.000010 Train Loss: 0.8117 Train Acc: 67.47% Test Loss:  
0.9709 Test Acc: 58.45%  
Epoch [14/20] LR: 0.000010 Train Loss: 0.8108 Train Acc: 68.04% Test Loss:  
0.9605 Test Acc: 59.28%  
Epoch [15/20] LR: 0.000001 Train Loss: 0.8097 Train Acc: 67.65% Test Loss:  
0.9634 Test Acc: 59.01%  
Epoch [16/20] LR: 0.000001 Train Loss: 0.8093 Train Acc: 67.71% Test Loss:  
0.9583 Test Acc: 59.56%  
Epoch [17/20] LR: 0.000001 Train Loss: 0.8071 Train Acc: 68.17% Test Loss:  
0.9650 Test Acc: 58.98%  
Epoch [18/20] LR: 0.000001 Train Loss: 0.8066 Train Acc: 68.02% Test Loss:  
0.9609 Test Acc: 59.16%  
Epoch [19/20] LR: 0.000001 Train Loss: 0.8053 Train Acc: 68.05% Test Loss:  
0.9672 Test Acc: 59.01%  
Epoch [20/20] LR: 0.000000 Train Loss: 0.8076 Train Acc: 67.76% Test Loss:  
0.9647 Test Acc: 58.82%

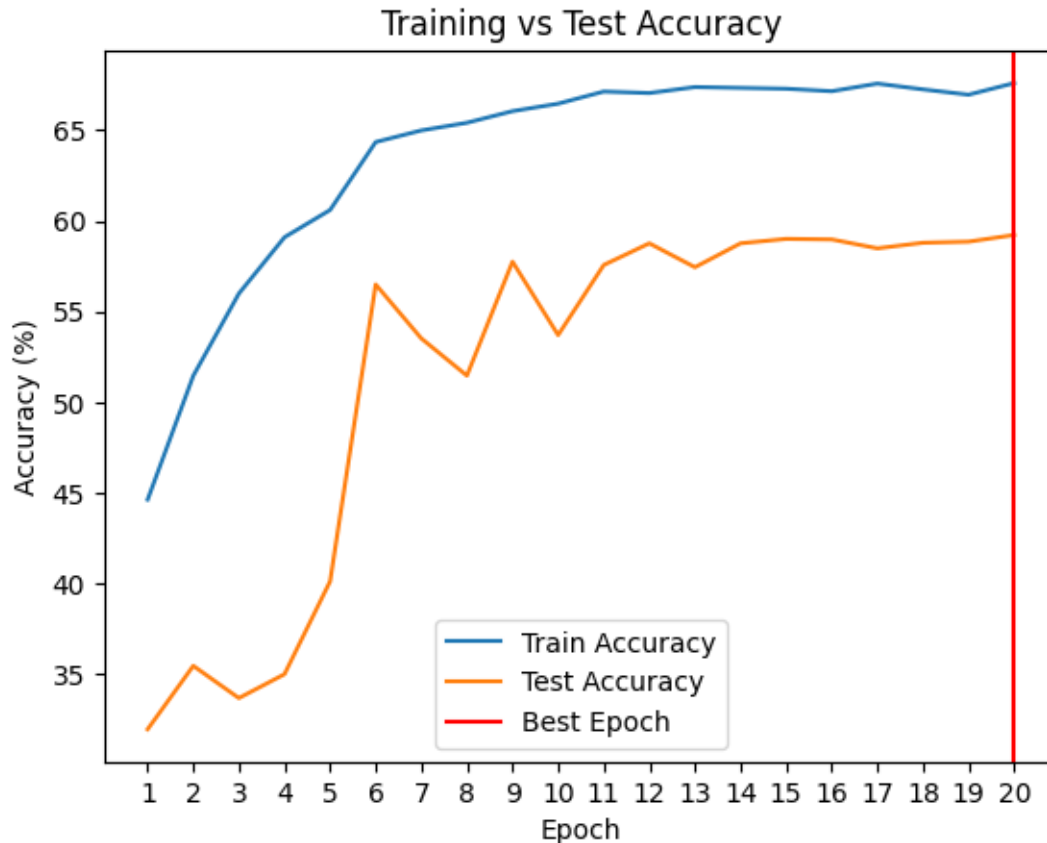




```
[ ]: model_cnn_3 = MidiCNN(blocks=[
    {'c': 32, 'k': (12, 7), 's': (1, 2), 'p': (6, 3)},
    {'c': 64, 'k': (9, 5), 's': (1, 2), 'p': (4, 2)},
    {'c': 128, 'k': (5, 3), 's': (1, 2), 'p': (2, 1)},
]).to(device)
model = model_cnn_3
optimizer = optim.Adam(model.parameters(), lr=1e-3)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
    ↪ num_epochs=20, scheduler=scheduler)
plot_train(best_epoch, train_acc_history, test_acc_history)
```

```
Epoch [1/20] LR: 0.001000 Train Loss: 1.1970 Train Acc: 44.62% Test Loss: 1.4493
Test Acc: 31.94%
Epoch [2/20] LR: 0.001000 Train Loss: 1.0947 Train Acc: 51.45% Test Loss: 2.1156
Test Acc: 35.44%
Epoch [3/20] LR: 0.001000 Train Loss: 1.0037 Train Acc: 55.99% Test Loss: 1.8418
Test Acc: 33.66%
Epoch [4/20] LR: 0.001000 Train Loss: 0.9380 Train Acc: 59.10% Test Loss: 2.0010
Test Acc: 34.98%
```

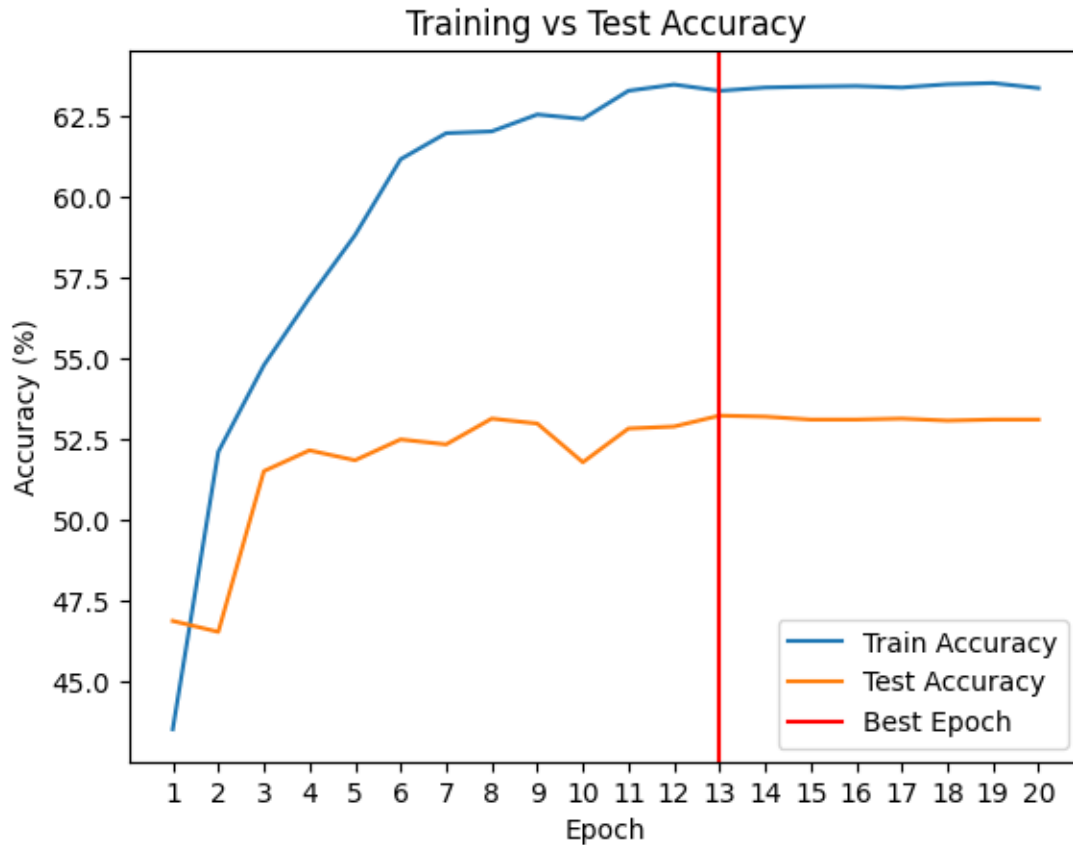
Epoch [5/20] LR: 0.000100 Train Loss: 0.9074 Train Acc: 60.60% Test Loss: 1.3661  
Test Acc: 40.10%  
Epoch [6/20] LR: 0.000100 Train Loss: 0.8530 Train Acc: 64.35% Test Loss: 1.0093  
Test Acc: 56.49%  
Epoch [7/20] LR: 0.000100 Train Loss: 0.8263 Train Acc: 64.99% Test Loss: 1.0886  
Test Acc: 53.51%  
Epoch [8/20] LR: 0.000100 Train Loss: 0.8204 Train Acc: 65.41% Test Loss: 1.0869  
Test Acc: 51.46%  
Epoch [9/20] LR: 0.000100 Train Loss: 0.8137 Train Acc: 66.06% Test Loss: 0.9882  
Test Acc: 57.75%  
Epoch [10/20] LR: 0.000010 Train Loss: 0.8027 Train Acc: 66.47% Test Loss:  
1.0599 Test Acc: 53.70%  
Epoch [11/20] LR: 0.000010 Train Loss: 0.7946 Train Acc: 67.14% Test Loss:  
0.9724 Test Acc: 57.56%  
Epoch [12/20] LR: 0.000010 Train Loss: 0.7930 Train Acc: 67.05% Test Loss:  
0.9434 Test Acc: 58.76%  
Epoch [13/20] LR: 0.000010 Train Loss: 0.7933 Train Acc: 67.38% Test Loss:  
0.9694 Test Acc: 57.44%  
Epoch [14/20] LR: 0.000010 Train Loss: 0.7899 Train Acc: 67.34% Test Loss:  
0.9619 Test Acc: 58.76%  
Epoch [15/20] LR: 0.000001 Train Loss: 0.7900 Train Acc: 67.29% Test Loss:  
0.9397 Test Acc: 59.01%  
Epoch [16/20] LR: 0.000001 Train Loss: 0.7885 Train Acc: 67.16% Test Loss:  
0.9512 Test Acc: 58.98%  
Epoch [17/20] LR: 0.000001 Train Loss: 0.7896 Train Acc: 67.58% Test Loss:  
0.9557 Test Acc: 58.48%  
Epoch [18/20] LR: 0.000001 Train Loss: 0.7884 Train Acc: 67.26% Test Loss:  
0.9544 Test Acc: 58.79%  
Epoch [19/20] LR: 0.000001 Train Loss: 0.7903 Train Acc: 66.96% Test Loss:  
0.9518 Test Acc: 58.85%  
Epoch [20/20] LR: 0.000000 Train Loss: 0.7884 Train Acc: 67.60% Test Loss:  
0.9491 Test Acc: 59.22%



```
[ ]: model_rnn_2 = MidiRNN(temporal_pool='last').to(device)
model = model_rnn_2
optimizer = optim.Adam(model.parameters(), lr=1e-3)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
    ↪ num_epochs=20, scheduler=scheduler)
plot_train(best_epoch, train_acc_history, test_acc_history)
```

```
Epoch [1/20] LR: 0.001000 Train Loss: 1.2141 Train Acc: 43.54% Test Loss: 1.1895
Test Acc: 46.89%
Epoch [2/20] LR: 0.001000 Train Loss: 1.0922 Train Acc: 52.12% Test Loss: 1.2743
Test Acc: 46.55%
Epoch [3/20] LR: 0.001000 Train Loss: 1.0391 Train Acc: 54.80% Test Loss: 1.1631
Test Acc: 51.52%
Epoch [4/20] LR: 0.001000 Train Loss: 0.9825 Train Acc: 56.88% Test Loss: 1.1562
Test Acc: 52.16%
Epoch [5/20] LR: 0.000100 Train Loss: 0.9505 Train Acc: 58.82% Test Loss: 1.1590
Test Acc: 51.86%
Epoch [6/20] LR: 0.000100 Train Loss: 0.9036 Train Acc: 61.17% Test Loss: 1.1232
Test Acc: 52.50%
```

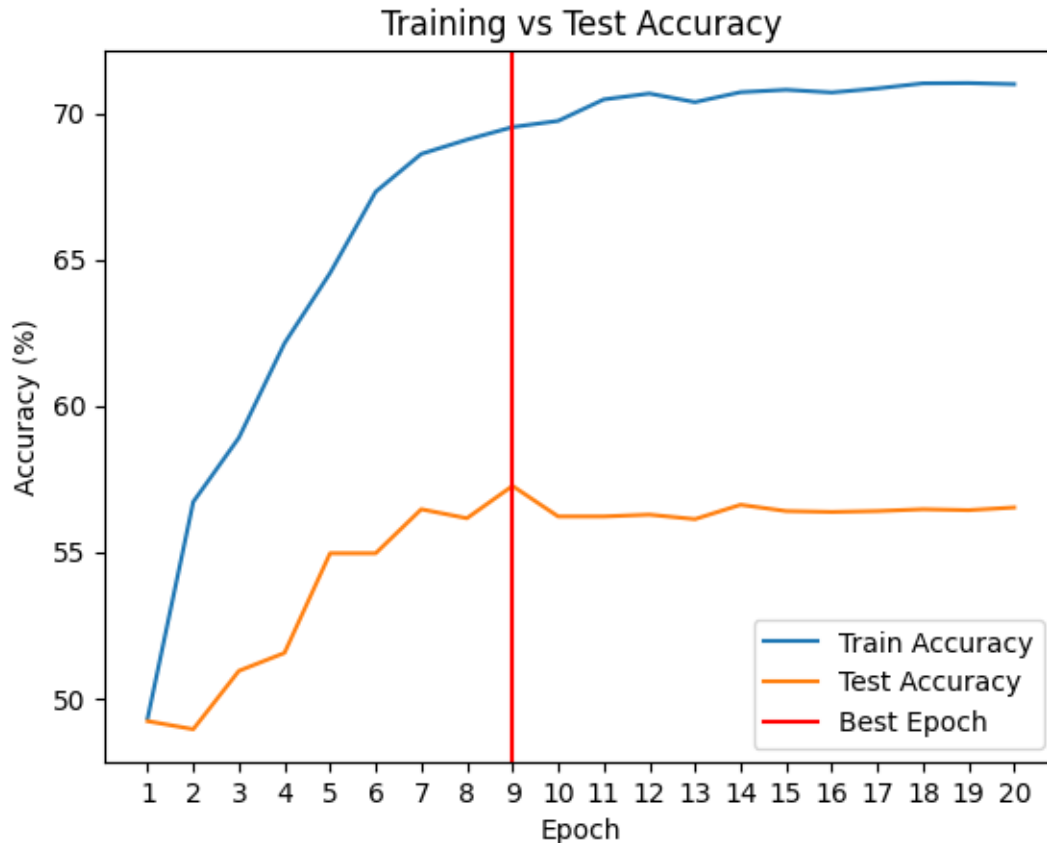
Epoch [7/20] LR: 0.000100 Train Loss: 0.8906 Train Acc: 61.98% Test Loss: 1.1154  
Test Acc: 52.35%  
Epoch [8/20] LR: 0.000100 Train Loss: 0.8824 Train Acc: 62.03% Test Loss: 1.1401  
Test Acc: 53.15%  
Epoch [9/20] LR: 0.000100 Train Loss: 0.8784 Train Acc: 62.55% Test Loss: 1.1321  
Test Acc: 52.99%  
Epoch [10/20] LR: 0.000010 Train Loss: 0.8723 Train Acc: 62.42% Test Loss:  
1.1172 Test Acc: 51.80%  
Epoch [11/20] LR: 0.000010 Train Loss: 0.8647 Train Acc: 63.29% Test Loss:  
1.1211 Test Acc: 52.84%  
Epoch [12/20] LR: 0.000010 Train Loss: 0.8629 Train Acc: 63.48% Test Loss:  
1.1226 Test Acc: 52.90%  
Epoch [13/20] LR: 0.000010 Train Loss: 0.8623 Train Acc: 63.29% Test Loss:  
1.1250 Test Acc: 53.24%  
Epoch [14/20] LR: 0.000010 Train Loss: 0.8616 Train Acc: 63.39% Test Loss:  
1.1265 Test Acc: 53.21%  
Epoch [15/20] LR: 0.000001 Train Loss: 0.8620 Train Acc: 63.41% Test Loss:  
1.1255 Test Acc: 53.11%  
Epoch [16/20] LR: 0.000001 Train Loss: 0.8595 Train Acc: 63.43% Test Loss:  
1.1256 Test Acc: 53.11%  
Epoch [17/20] LR: 0.000001 Train Loss: 0.8597 Train Acc: 63.39% Test Loss:  
1.1258 Test Acc: 53.15%  
Epoch [18/20] LR: 0.000001 Train Loss: 0.8598 Train Acc: 63.49% Test Loss:  
1.1258 Test Acc: 53.08%  
Epoch [19/20] LR: 0.000001 Train Loss: 0.8582 Train Acc: 63.52% Test Loss:  
1.1261 Test Acc: 53.11%  
Epoch [20/20] LR: 0.000000 Train Loss: 0.8596 Train Acc: 63.37% Test Loss:  
1.1260 Test Acc: 53.11%



```
[ ]: model_rnn_3 = MidiRNN(hidden_size=256).to(device)
model = model_rnn_3
optimizer = optim.Adam(model.parameters(), lr=1e-3)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
    ↪ num_epochs=20, scheduler=scheduler)
plot_train(best_epoch, train_acc_history, test_acc_history)
```

```
Epoch [1/20] LR: 0.001000 Train Loss: 1.1282 Train Acc: 49.32% Test Loss: 1.2314
Test Acc: 49.22%
Epoch [2/20] LR: 0.001000 Train Loss: 1.0140 Train Acc: 56.71% Test Loss: 1.1522
Test Acc: 48.94%
Epoch [3/20] LR: 0.001000 Train Loss: 0.9589 Train Acc: 58.90% Test Loss: 1.1303
Test Acc: 50.94%
Epoch [4/20] LR: 0.001000 Train Loss: 0.8998 Train Acc: 62.13% Test Loss: 1.1605
Test Acc: 51.55%
Epoch [5/20] LR: 0.000100 Train Loss: 0.8520 Train Acc: 64.53% Test Loss: 1.1474
Test Acc: 54.96%
Epoch [6/20] LR: 0.000100 Train Loss: 0.7814 Train Acc: 67.31% Test Loss: 1.1301
Test Acc: 54.96%
```

Epoch [7/20] LR: 0.000100 Train Loss: 0.7585 Train Acc: 68.60% Test Loss: 1.1252  
Test Acc: 56.46%  
Epoch [8/20] LR: 0.000100 Train Loss: 0.7467 Train Acc: 69.09% Test Loss: 1.1368  
Test Acc: 56.15%  
Epoch [9/20] LR: 0.000100 Train Loss: 0.7344 Train Acc: 69.52% Test Loss: 1.1432  
Test Acc: 57.26%  
Epoch [10/20] LR: 0.000010 Train Loss: 0.7256 Train Acc: 69.73% Test Loss:  
1.1359 Test Acc: 56.21%  
Epoch [11/20] LR: 0.000010 Train Loss: 0.7114 Train Acc: 70.47% Test Loss:  
1.1348 Test Acc: 56.21%  
Epoch [12/20] LR: 0.000010 Train Loss: 0.7080 Train Acc: 70.67% Test Loss:  
1.1373 Test Acc: 56.27%  
Epoch [13/20] LR: 0.000010 Train Loss: 0.7081 Train Acc: 70.37% Test Loss:  
1.1409 Test Acc: 56.12%  
Epoch [14/20] LR: 0.000010 Train Loss: 0.7053 Train Acc: 70.71% Test Loss:  
1.1421 Test Acc: 56.61%  
Epoch [15/20] LR: 0.000001 Train Loss: 0.7034 Train Acc: 70.80% Test Loss:  
1.1404 Test Acc: 56.40%  
Epoch [16/20] LR: 0.000001 Train Loss: 0.7029 Train Acc: 70.70% Test Loss:  
1.1411 Test Acc: 56.37%  
Epoch [17/20] LR: 0.000001 Train Loss: 0.7028 Train Acc: 70.84% Test Loss:  
1.1417 Test Acc: 56.40%  
Epoch [18/20] LR: 0.000001 Train Loss: 0.7023 Train Acc: 71.02% Test Loss:  
1.1419 Test Acc: 56.46%  
Epoch [19/20] LR: 0.000001 Train Loss: 0.7017 Train Acc: 71.03% Test Loss:  
1.1421 Test Acc: 56.43%  
Epoch [20/20] LR: 0.000000 Train Loss: 0.7017 Train Acc: 70.99% Test Loss:  
1.1424 Test Acc: 56.52%

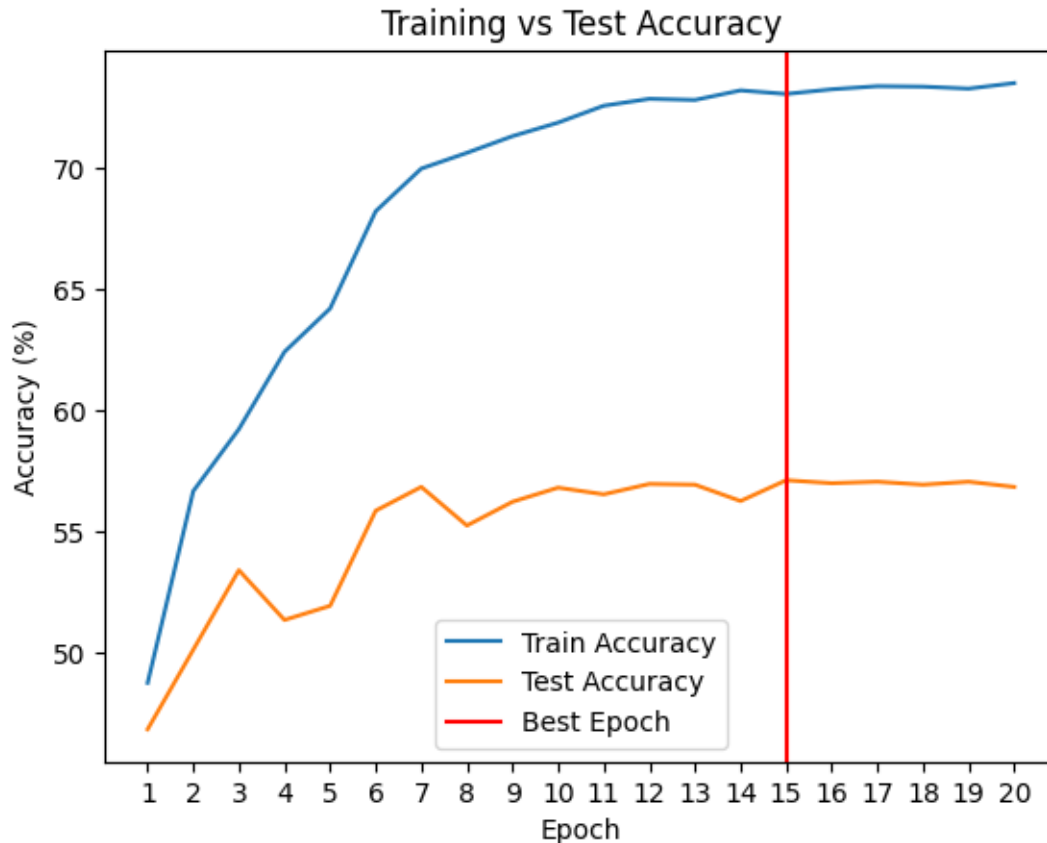


```
[ ]: model_rnn_3 = MidiRNN(hidden_size=256, num_layers=3).to(device)
model = model_rnn_3
optimizer = optim.Adam(model.parameters(), lr=1e-3)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
    ↪ num_epochs=20, scheduler=scheduler)
plot_train(best_epoch, train_acc_history, test_acc_history)
```

```
Epoch [1/20] LR: 0.001000 Train Loss: 1.1269 Train Acc: 48.77% Test Loss: 1.2481
Test Acc: 46.85%
Epoch [2/20] LR: 0.001000 Train Loss: 1.0047 Train Acc: 56.68% Test Loss: 1.2046
Test Acc: 50.14%
Epoch [3/20] LR: 0.001000 Train Loss: 0.9533 Train Acc: 59.24% Test Loss: 1.1436
Test Acc: 53.42%
Epoch [4/20] LR: 0.001000 Train Loss: 0.8895 Train Acc: 62.43% Test Loss: 1.1483
Test Acc: 51.37%
Epoch [5/20] LR: 0.000100 Train Loss: 0.8470 Train Acc: 64.22% Test Loss: 1.1535
Test Acc: 51.95%
Epoch [6/20] LR: 0.000100 Train Loss: 0.7583 Train Acc: 68.24% Test Loss: 1.1320
Test Acc: 55.88%
```

Epoch [7/20] LR: 0.000100 Train Loss: 0.7225 Train Acc: 70.00% Test Loss: 1.1290  
Test Acc: 56.86%  
Epoch [8/20] LR: 0.000100 Train Loss: 0.7019 Train Acc: 70.65% Test Loss: 1.1455  
Test Acc: 55.26%  
Epoch [9/20] LR: 0.000100 Train Loss: 0.6881 Train Acc: 71.34% Test Loss: 1.1329  
Test Acc: 56.24%  
Epoch [10/20] LR: 0.000010 Train Loss: 0.6741 Train Acc: 71.90% Test Loss:  
1.1473 Test Acc: 56.83%  
Epoch [11/20] LR: 0.000010 Train Loss: 0.6570 Train Acc: 72.59% Test Loss:  
1.1458 Test Acc: 56.55%  
Epoch [12/20] LR: 0.000010 Train Loss: 0.6527 Train Acc: 72.88% Test Loss:  
1.1474 Test Acc: 56.98%  
Epoch [13/20] LR: 0.000010 Train Loss: 0.6507 Train Acc: 72.83% Test Loss:  
1.1484 Test Acc: 56.95%  
Epoch [14/20] LR: 0.000010 Train Loss: 0.6488 Train Acc: 73.23% Test Loss:  
1.1541 Test Acc: 56.27%  
Epoch [15/20] LR: 0.000001 Train Loss: 0.6467 Train Acc: 73.08% Test Loss:  
1.1539 Test Acc: 57.13%  
Epoch [16/20] LR: 0.000001 Train Loss: 0.6445 Train Acc: 73.27% Test Loss:  
1.1540 Test Acc: 57.01%  
Epoch [17/20] LR: 0.000001 Train Loss: 0.6446 Train Acc: 73.40% Test Loss:  
1.1539 Test Acc: 57.07%  
Epoch [18/20] LR: 0.000001 Train Loss: 0.6438 Train Acc: 73.38% Test Loss:  
1.1541 Test Acc: 56.95%  
Epoch [19/20] LR: 0.000001 Train Loss: 0.6440 Train Acc: 73.30% Test Loss:  
1.1543 Test Acc: 57.07%  
Epoch [20/20] LR: 0.000000 Train Loss: 0.6424 Train Acc: 73.53% Test Loss:  
1.1542 Test Acc: 56.86%

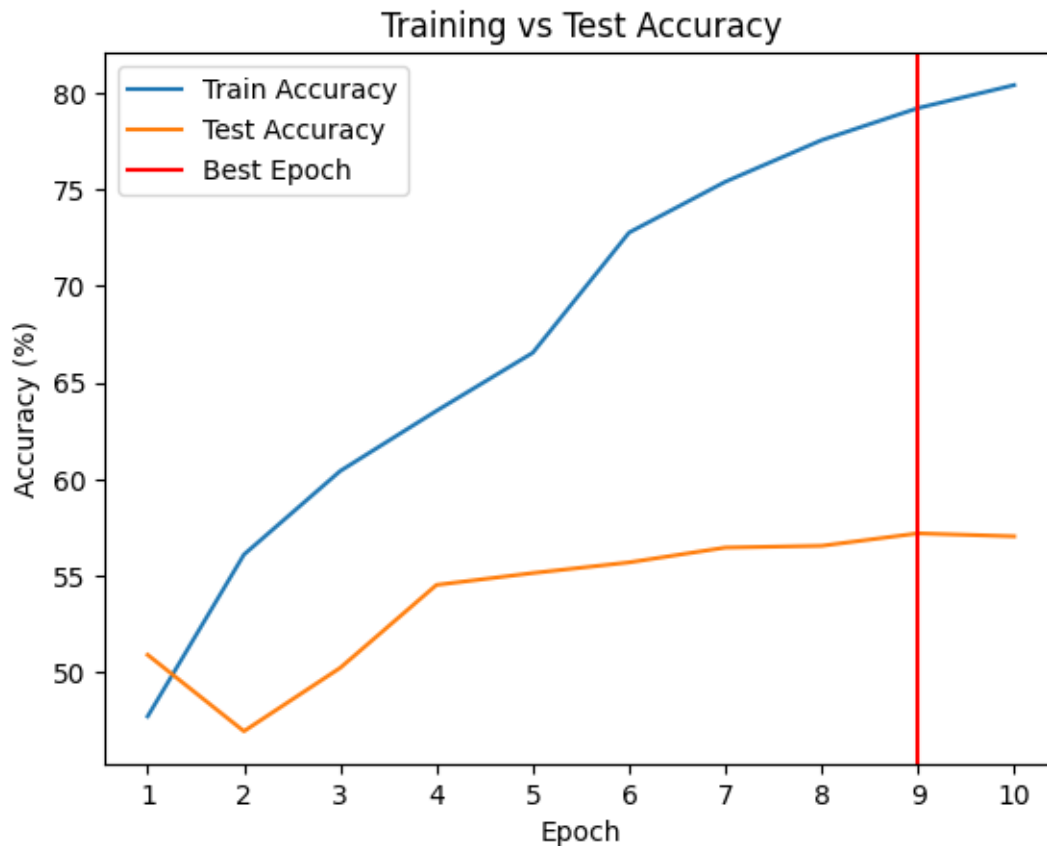




```
[ ]: model_rnn_4 = MidiRNN(hidden_size=512, num_layers=4).to(device)
model = model_rnn_4
optimizer = optim.Adam(model.parameters(), lr=1e-3)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
    ↪ num_epochs=10, scheduler=scheduler)
plot_train(best_epoch, train_acc_history, test_acc_history)
```

```
Epoch [1/10] LR: 0.001000 Train Loss: 1.1420 Train Acc: 47.72% Test Loss: 1.1502
Test Acc: 50.91%
Epoch [2/10] LR: 0.001000 Train Loss: 1.0111 Train Acc: 56.10% Test Loss: 1.1768
Test Acc: 46.95%
Epoch [3/10] LR: 0.001000 Train Loss: 0.9314 Train Acc: 60.43% Test Loss: 1.1474
Test Acc: 50.23%
Epoch [4/10] LR: 0.001000 Train Loss: 0.8604 Train Acc: 63.54% Test Loss: 1.1333
Test Acc: 54.53%
Epoch [5/10] LR: 0.000100 Train Loss: 0.7884 Train Acc: 66.55% Test Loss: 1.1984
Test Acc: 55.14%
Epoch [6/10] LR: 0.000100 Train Loss: 0.6619 Train Acc: 72.78% Test Loss: 1.1175
Test Acc: 55.69%
```

Epoch [7/10] LR: 0.000100 Train Loss: 0.6028 Train Acc: 75.41% Test Loss: 1.1239 Test Acc: 56.46%  
 Epoch [8/10] LR: 0.000100 Train Loss: 0.5647 Train Acc: 77.56% Test Loss: 1.1455 Test Acc: 56.55%  
 Epoch [9/10] LR: 0.000100 Train Loss: 0.5309 Train Acc: 79.22% Test Loss: 1.1755 Test Acc: 57.20%  
 Epoch [10/10] LR: 0.000010 Train Loss: 0.4984 Train Acc: 80.41% Test Loss: 1.1635 Test Acc: 57.04%



```
[ ]: model = model_rnn_4
optimizer = optim.Adam(model.parameters(), lr=1e-4)
scheduler = lr_scheduler.StepLR(optimizer, step_size=5, gamma=0.1)
best_epoch, train_acc_history, test_acc_history = train_model(model, optimizer,
↳ num_epochs=10, scheduler=scheduler)
plot_train(best_epoch, train_acc_history, test_acc_history)
```

Epoch [1/10] LR: 0.000100 Train Loss: 0.5002 Train Acc: 80.30% Test Loss: 1.1809 Test Acc: 57.23%  
 Epoch [2/10] LR: 0.000100 Train Loss: 0.4688 Train Acc: 81.69% Test Loss: 1.2281 Test Acc: 56.12%

Epoch [3/10] LR: 0.000100 Train Loss: 0.4406 Train Acc: 83.12% Test Loss: 1.2412 Test Acc: 56.77%  
Epoch [4/10] LR: 0.000100 Train Loss: 0.4170 Train Acc: 84.26% Test Loss: 1.2922 Test Acc: 56.64%  
Epoch [5/10] LR: 0.000010 Train Loss: 0.3864 Train Acc: 85.51% Test Loss: 1.3257 Test Acc: 56.58%  
Epoch [6/10] LR: 0.000010 Train Loss: 0.3474 Train Acc: 87.48% Test Loss: 1.3278 Test Acc: 57.50%  
Epoch [7/10] LR: 0.000010 Train Loss: 0.3353 Train Acc: 88.13% Test Loss: 1.3318 Test Acc: 57.13%  
Epoch [8/10] LR: 0.000010 Train Loss: 0.3315 Train Acc: 88.28% Test Loss: 1.3420 Test Acc: 57.38%  
Epoch [9/10] LR: 0.000010 Train Loss: 0.3262 Train Acc: 88.43% Test Loss: 1.3570 Test Acc: 57.59%  
Epoch [10/10] LR: 0.000001 Train Loss: 0.3211 Train Acc: 88.53% Test Loss: 1.3642 Test Acc: 57.53%



```
[ ]: import numpy as np
import torch
from sklearn.metrics import confusion_matrix, classification_report
```

```

import matplotlib.pyplot as plt

def compute_confusion_matrix(model, loader, device, class_names=None,
    ↪normalize=None):
    model.eval()
    all_preds, all_targets = [], []

    with torch.inference_mode():
        for inputs, targets in loader:
            inputs = inputs.to(device, non_blocking=True)
            targets = targets.to(device, non_blocking=True)
            outputs = model(inputs)
            preds = outputs.argmax(dim=1)
            all_preds.append(preds.cpu().numpy())
            all_targets.append(targets.cpu().numpy())

    y_pred = np.concatenate(all_preds)
    y_true = np.concatenate(all_targets)

    cm = confusion_matrix(y_true, y_pred, normalize=normalize)

    if class_names is not None:
        print('\nClassification report:')
        print(classification_report(y_true, y_pred, target_names=class_names,
    ↪digits=3))

    return cm

def plot_confusion_matrix(cm, class_names=None, title='Confusion Matrix'):
    fig, ax = plt.subplots(figsize=(6, 5))
    im = ax.imshow(cm, interpolation='nearest', cmap='Blues')
    ax.set_title(title)
    plt.colorbar(im, ax=ax, fraction=0.046, pad=0.04)

    if class_names is not None:
        ax.set_xticks(range(len(class_names)))
        ax.set_yticks(range(len(class_names)))
        ax.set_xticklabels(class_names, rotation=45, ha='right')
        ax.set_yticklabels(class_names)
        ax.set_xlabel('Predicted')
        ax.set_ylabel('True')
    else:
        ax.set_xlabel('Predicted')
        ax.set_ylabel('True')

    fmt = '.2f' if cm.dtype.kind == 'f' else 'd'
    thresh = cm.max() / 2.0

```

```

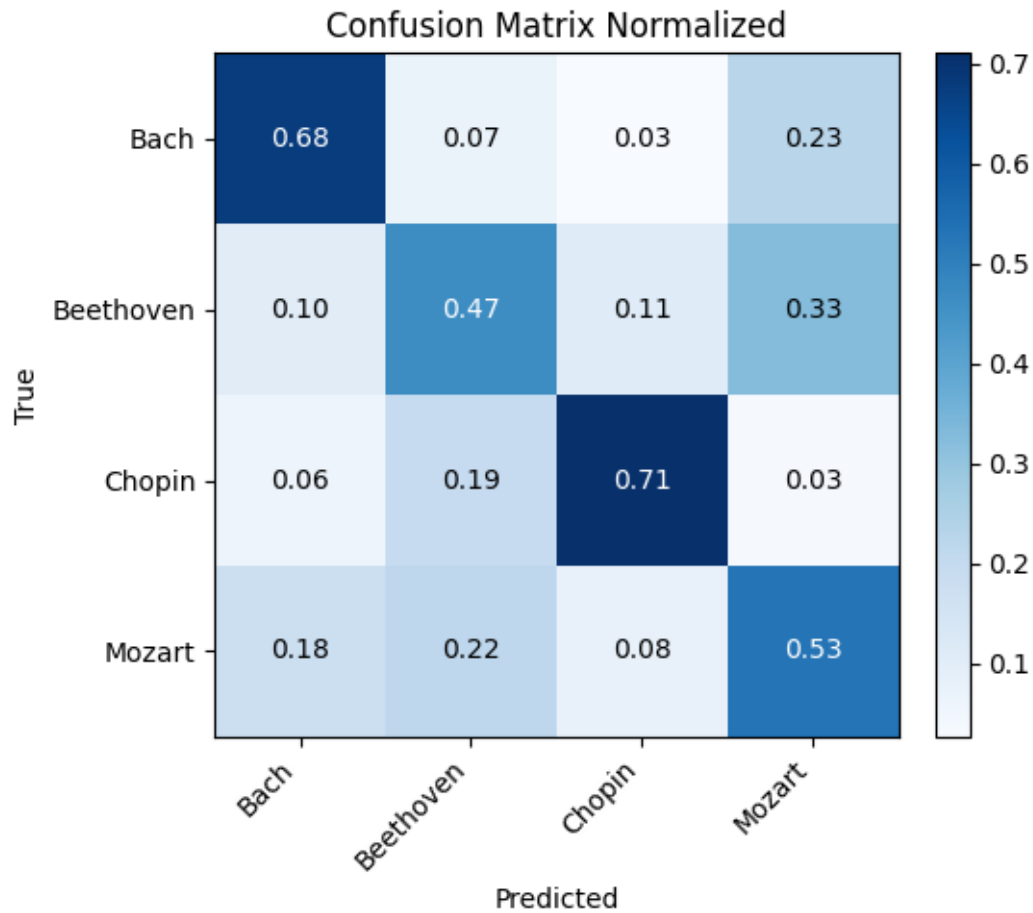
for i in range(cm.shape[0]):
    for j in range(cm.shape[1]):
        ax.text(j, i, format(cm[i, j], fmt), ha='center', va='center',
            color='white' if cm[i, j] > thresh else 'black')
plt.tight_layout()
plt.show()

class_names = ['Bach', 'Beethoven', 'Chopin', 'Mozart']
cm = compute_confusion_matrix(model_cnn_1, test_loader, device,
    ↪class_names=class_names, normalize='true')
plot_confusion_matrix(cm, class_names, title='Confusion Matrix Normalized')

```

Classification report:

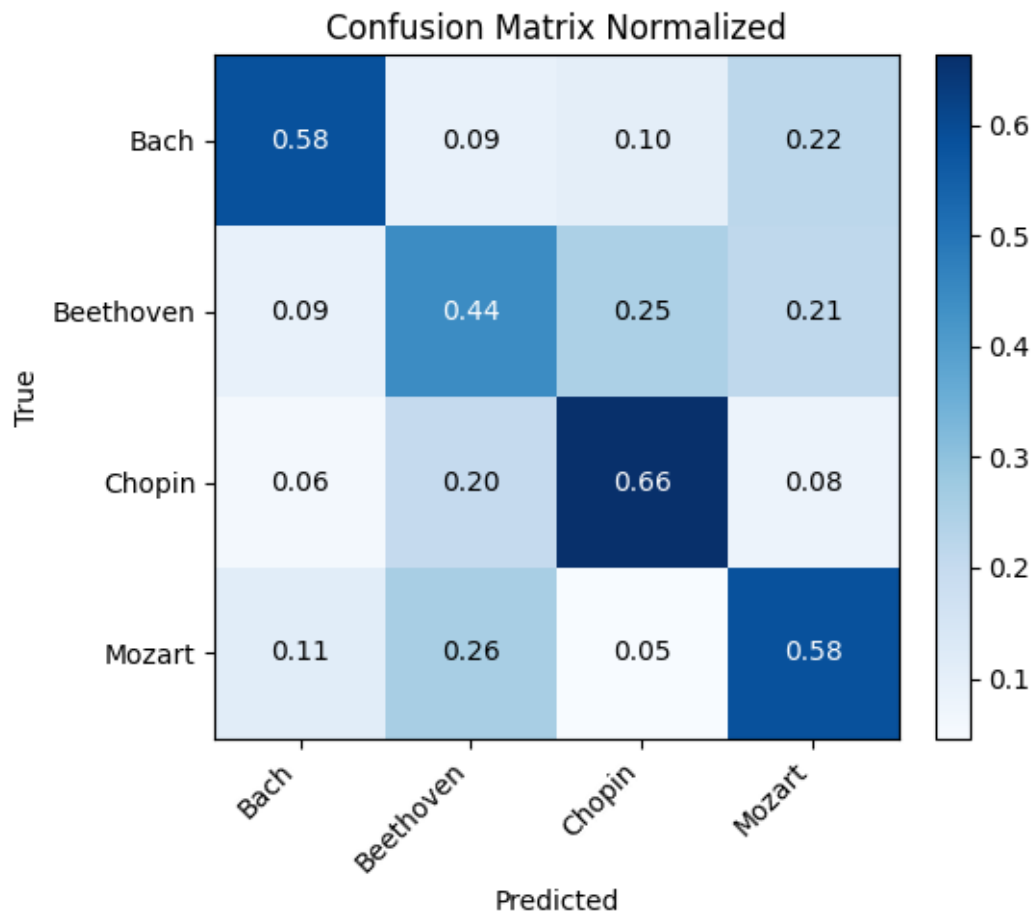
	precision	recall	f1-score	support
Bach	0.637	0.677	0.656	715
Beethoven	0.496	0.465	0.480	843
Chopin	0.801	0.710	0.753	955
Mozart	0.458	0.529	0.491	746
accuracy			0.598	3259
macro avg	0.598	0.595	0.595	3259
weighted avg	0.608	0.598	0.601	3259



```
[ ]: cm = compute_confusion_matrix(model_rnn_3, test_loader, device,
    ↪class_names=class_names, normalize='true')
plot_confusion_matrix(cm, class_names, title='Confusion Matrix Normalized')
```

Classification report:

	precision	recall	f1-score	support
Bach	0.660	0.585	0.620	715
Beethoven	0.454	0.445	0.449	843
Chopin	0.665	0.663	0.664	955
Mozart	0.514	0.584	0.547	746
accuracy			0.571	3259
macro avg	0.573	0.569	0.570	3259
weighted avg	0.575	0.571	0.572	3259



[ ]: