

Visual Approaches for Music Harmonic Analysis Evaluation Study

Task 1

Given the following chorale:



A musical score consisting of four staves (two treble and two bass clefs) in 4/4 time, with a key signature of two flats (B-flat and E-flat). The score is enclosed in a blue rectangular frame with a dotted border. The music is written in black ink. Vertical bars of color are placed behind the notes on each staff to indicate a sequence or structure. The colors are red, green, and blue. The sequence of colors across the staves is as follows:

Staff	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6	Measure 7	Measure 8
Treble 1	Red	Red	Green	Blue	Red	Blue	Red	Red
Treble 2	Red	Red	Green	Blue	Red	Blue	Red	Red
Bass 1	Red	Red	Green	Blue	Red	Blue	Red	Red
Bass 2	Red	Red	Green	Blue	Red	Blue	Red	Red

A musical score consisting of four systems of staves. Each system has four staves: two treble clefs (top two) and two bass clefs (bottom two). The key signature has one flat (B-flat), and the time signature is common time (C). The score is divided into four systems by vertical dotted lines. Each system is associated with a colored rectangular block above and below the staves. The first system has a light blue block. The second system has a light green block. The third system has a light blue block. The fourth system has a light green block. The notes are colored to match the blocks: red for the first system, cyan for the second, purple for the third, and yellow for the fourth. The notes are mostly eighth and quarter notes, with some half notes and a whole note in the final system.

A musical score consisting of four staves (two treble and two bass clefs) in 2/4 time. The score is divided into four measures by vertical lines. The background of the score is composed of colored rectangular blocks: green, purple, blue, and yellow. The first measure has a green background. The second measure has a purple background. The third measure has a blue background. The fourth measure has a yellow background. The notes are colored to match the background of the measure they are in. The first measure contains four notes (two in the treble, two in the bass). The second measure contains four notes. The third measure contains four notes. The fourth measure contains four notes. The notes are connected by stems, indicating a continuous melody or harmony.

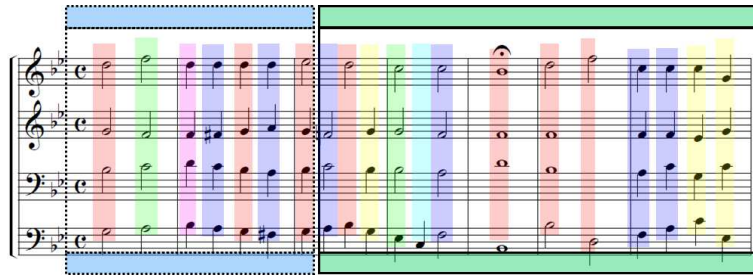
Comments: Report here the motivations behind your choice

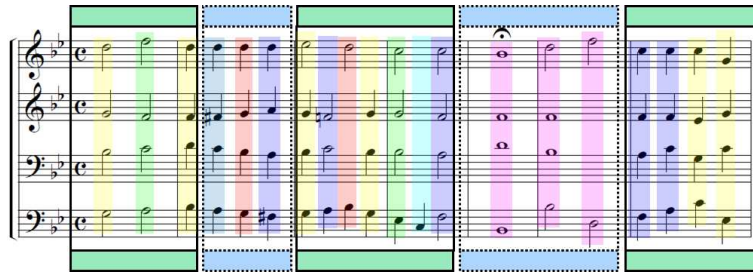
Task 2

Given the following chorale:

The image shows a musical score for a chorale in B-flat major (two flats) and 4/4 time. It consists of four staves: Soprano, Alto, Tenor, and Bass. The Soprano staff begins with a half note B-flat, followed by quarter notes D, E, F, G, A, B-flat, and a half note G. The Alto staff starts with a half note B-flat, followed by quarter notes D, E, F, G, A, B-flat, and a half note G. The Tenor staff begins with a half note B-flat, followed by quarter notes D, E, F, G, A, B-flat, and a half note G. The Bass staff starts with a half note B-flat, followed by quarter notes D, E, F, G, A, B-flat, and a half note G. A fermata is placed over the final G in the Soprano staff. The piece concludes with a double bar line.

Select the best harmonic analysis:





A musical score for four staves (two treble and two bass clefs) in 2/4 time, featuring a key signature of two flats (B-flat and E-flat). The score is divided into measures by vertical dotted lines. Above the staves, there are colored rectangular blocks: a light blue block at the top left, followed by a sequence of green, purple, blue, and yellow blocks, and then a series of red blocks. The notes are color-coded to match these blocks: red notes for red blocks, green notes for green blocks, purple notes for purple blocks, blue notes for blue blocks, and yellow notes for yellow blocks. The notes are primarily eighth and quarter notes, with some half notes and rests. The score ends with a double bar line.

Comments: Report here the motivations behind your choice

Task 3

Given the following chorale:



Select the best harmonic analysis:

A musical score for piano, consisting of four staves (two treble and two bass clefs) in 3/4 time, key of D major (two sharps). The score is divided into three measures by vertical lines. The first measure contains four staves of music. The second measure contains four staves of music. The third measure contains four staves of music. The staves are color-coded: the first two staves are red, the third staff is blue, and the fourth staff is cyan. The music is written in a simple, rhythmic style, with notes and rests. The score is enclosed in a black rectangular frame.

A musical score for piano in 3/4 time, key of D major (two sharps). The score consists of five measures, each containing a treble and bass staff. The notes are as follows:

- Measure 1: Treble (D4, E4, F#4), Bass (D3, E3, F#3). Colored bars: Red (D4), Red (E4), Blue (F#4), Red (D3), Red (E3), Blue (F#3).
- Measure 2: Treble (F#4, G4, A4), Bass (F#3, G3, A3). Colored bars: Yellow (F#4), Yellow (G4), Red (A4), Yellow (F#3), Yellow (G3), Red (A3).
- Measure 3: Treble (A4, B4, C5), Bass (A3, B3, C4). Colored bars: Red (A4), Red (B4), Cyan (C5), Red (A3), Red (B3), Cyan (C4).
- Measure 4: Treble (B4, C5, D5), Bass (B3, C4, D4). Colored bars: Yellow (B4), Red (C5), Yellow (D5), Yellow (B3), Red (C4), Yellow (D4).
- Measure 5: Treble (C5, B4, A4), Bass (C4, B3, A3). Colored bars: Cyan (C5), Red (B4), Cyan (A4), Cyan (C4), Red (B3), Cyan (A3).

Each measure is enclosed in a purple rectangular box. The notes are marked with stems and flags, and the bass staff has a key signature of two sharps.

A musical score consisting of four staves, two treble and two bass, in 3/4 time with a key signature of one sharp (F#). The score is divided into four measures by vertical bar lines. Each measure is associated with a colored rectangular block: Measure 1 is light red, Measure 2 is light green, Measure 3 is light blue, and Measure 4 is light pink. The notes are as follows:

Measure	Staff	Notes
1	Treble	C4, D4, E4
	Bass	F#3, G3, A3
2	Treble	F#4, G4, A4
	Bass	B2, C3, D3
3	Treble	E4, F#4, G4
	Bass	E3, F#3, G3
4	Treble	A4, B4, C5
	Bass	A2, B2, C3

Comments: Report here the motivations behind your choice

Final questions

- Q1: With this approach is evident the relationship between tonalities and colors.
Strongly disagree ☐ ☐ ☐ ☐ ☐ **Strongly agree**
- Q2: In the Circle of fifths, similar tonalities correspond to similar colors.
Strongly disagree ☐ ☐ ☐ ☐ ☐ **Strongly agree**
- Q3: With this approach is evident the difference between major and minor tonalities.
Strongly disagree ☐ ☐ ☐ ☐ ☐ **Strongly agree**