

Steps

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First system of musical notation, measures 1-11. The key signature has one sharp (F#). The time signature is 4/4. The notation includes whole notes in the treble and bass staves. Chord symbols and fingerings are provided for measures 5-11:

Measure	Chord Symbol	Fingering
5	A4	6 0 #
6	M3	4 0
7	M5	7 0
8	+A4 -M2	
9	+m3-M5	
10		7 6 4 0
11		10 6 1 0

Example 1

12

Example 1, measures 12-19. This system continues the melodic and harmonic development from the previous system, showing a sequence of eighth and quarter notes in both staves.

Inverse

20

Inverse section, measures 20-29. The key signature changes to three sharps (F#, C#, G#). The notation includes whole notes in the treble and bass staves. Chord symbols and fingerings are provided for measures 24-29:

Measure	Chord Symbol	Fingering
24	A4	6 0 #
25	m6	8 0 b
26	P4	5 0
27	+A4 +M2	
28	+M2 -m3	
29		8 6 5 0

Example2

31

Example 2, measures 31-38. This system continues the melodic and harmonic development, featuring a sequence of eighth and quarter notes in both staves.

Retrograde

39

Retrograde section, measures 39-46. The key signature changes to one sharp (F#). The notation includes whole notes in the treble and bass staves. Chord symbols and fingerings are provided for measures 43-46:

Measure	Chord Symbol	Fingering
43	A4	9 0
44	M3	11 0 #
45	M5	5 0
46		11 9 5 0

50

58

68

76

84

92

2

Example 6

Fundamental + Retrograde (H

100

A musical score for the song 'The Rose Tree'. The score is written for voice and piano. The voice part is in the treble clef, and the piano accompaniment is in the bass clef. The key signature has one sharp (F#), and the time signature is 4/4. The melody is a simple, folk-like tune. The piano accompaniment consists of a steady bass line and a treble line that follows the melody. The score ends with a double bar line.

Example 7

Fundamental + Retrograde (E flat)

108

108 Fundamental + Retrograde (E flat)

This musical score is for a piece titled 'Fundamental + Retrograde (E flat)'. It is written for piano and consists of two staves. The key signature has one flat (B-flat), and the time signature is 4/4. The melody in the right hand is composed of eighth and quarter notes, with a final measure containing a whole rest. The left hand accompaniment consists of a steady eighth-note pattern, with the first four measures in bass clef and the last four measures in treble clef. The piece concludes with a double bar line.

Example 8

Fundamental + Retrograde mixed & modulated composed

116

A musical score for the song 'The Rose Tree'. The score is written for a piano, with a treble and bass staff. The key signature is one flat (B-flat), and the time signature is 4/4. The melody is in the treble staff, and the bass line is in the bass staff. The score consists of five measures. The first measure has a treble staff with a B-flat and a bass staff with a B-flat. The second measure has a treble staff with a B-flat and a bass staff with a B-flat. The third measure has a treble staff with a B-flat and a bass staff with a B-flat. The fourth measure has a treble staff with a B-flat and a bass staff with a B-flat. The fifth measure has a treble staff with a B-flat and a bass staff with a B-flat. The score ends with a double bar line.

121

121

This musical score segment contains measures 121 through 126. The notation is as follows:

- Measure 121:** Treble clef has a half note G4 (natural), a quarter note A4 (sharp), and a half note B4 (flat). Bass clef has a half note G3 (sharp).
- Measure 122:** Treble clef has a half note C5 (natural), a quarter note D5 (sharp), and a half note E5 (natural). Bass clef has a half note A3 (natural).
- Measure 123:** Treble clef has a half note F5 (flat), a quarter note G5 (flat), and a half note A5 (natural). Bass clef has a half note B3 (natural).
- Measure 124:** Treble clef has a half note B5 (natural), a quarter note C6 (natural), and a half note D6 (natural). Bass clef has a half note C4 (sharp).
- Measure 125:** Treble clef has a half note E6 (natural), a quarter note F6 (natural), and a half note G6 (natural). Bass clef has a half note D4 (sharp).
- Measure 126:** Treble clef has a half note A6 (flat), a quarter note B6 (flat), and a half note C7 (flat). Bass clef has a half note E4 (natural).

127

128

7 pitch fundamental series

A musical score for the song "The Rose Tree". The score is written for a piano, with a treble and bass staff. The key signature is one flat (B-flat), and the time signature is 4/4. The melody is in the treble staff, and the bass staff provides a simple accompaniment. The score consists of 12 measures, with a double bar line at the end. The melody starts on a whole note G4, followed by a half note F#4, a half note E4, a half note D4, a half note C4, a half note B3, and a half note A3. The bass staff starts on a whole note G3, followed by a half note F#3, a half note E3, a half note D3, a half note C3, a half note B2, and a half note A2.

135

141

145

Example 9

154

160

167

7 Pitch Retrograde

173

180

186

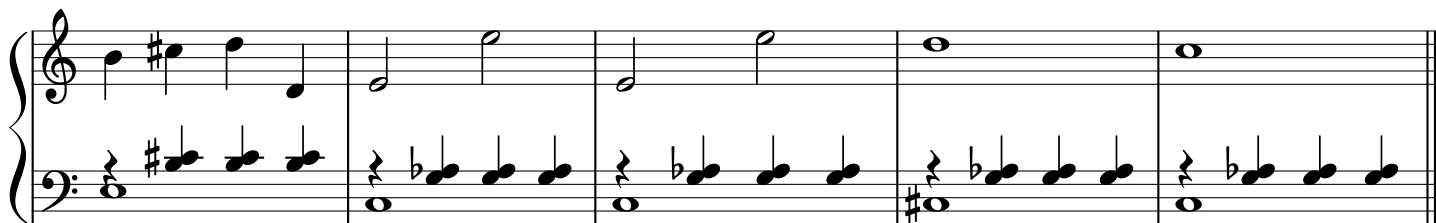
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Example 10

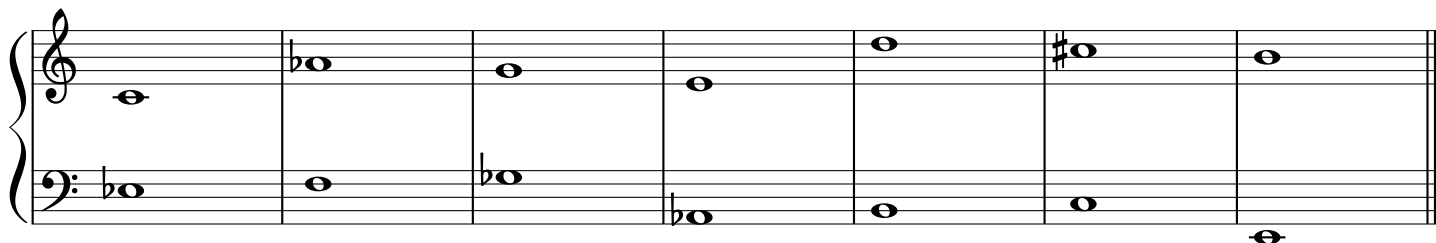
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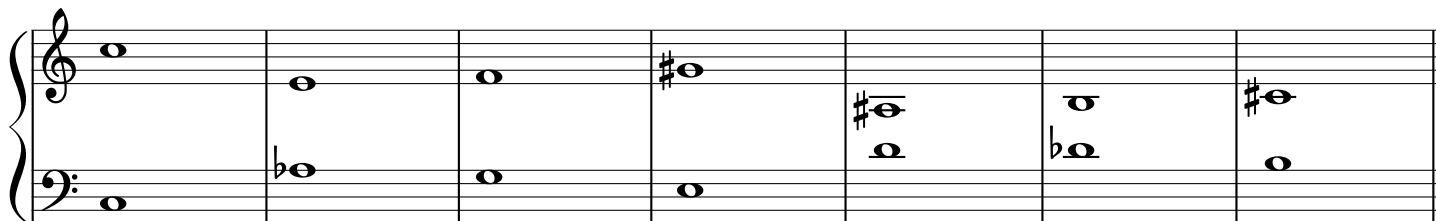


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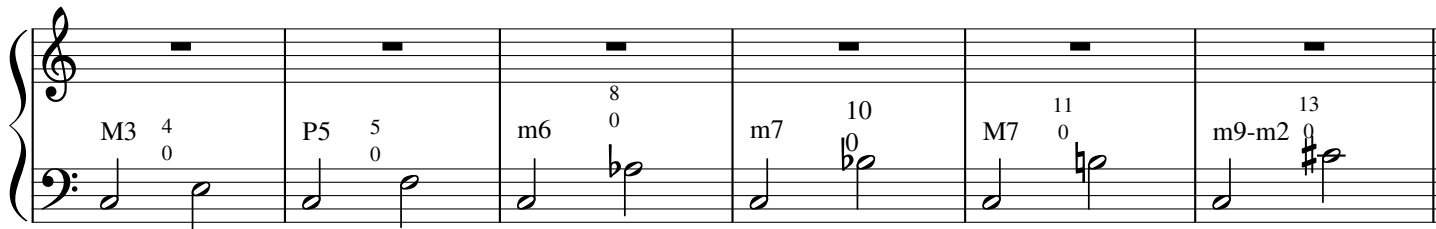


7 Pitch Inversion

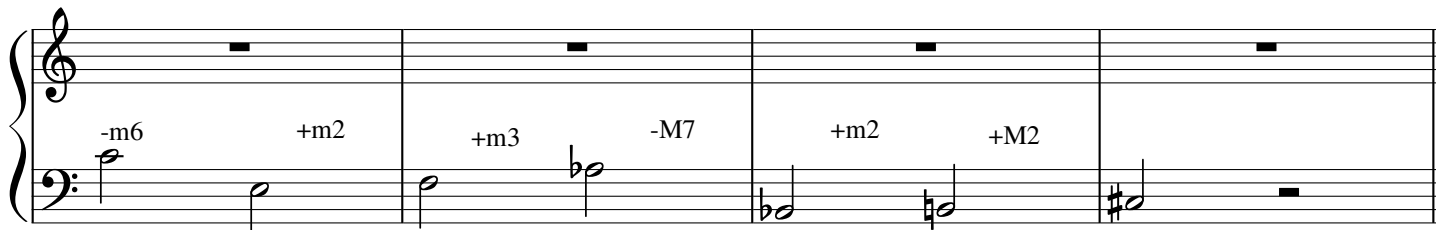
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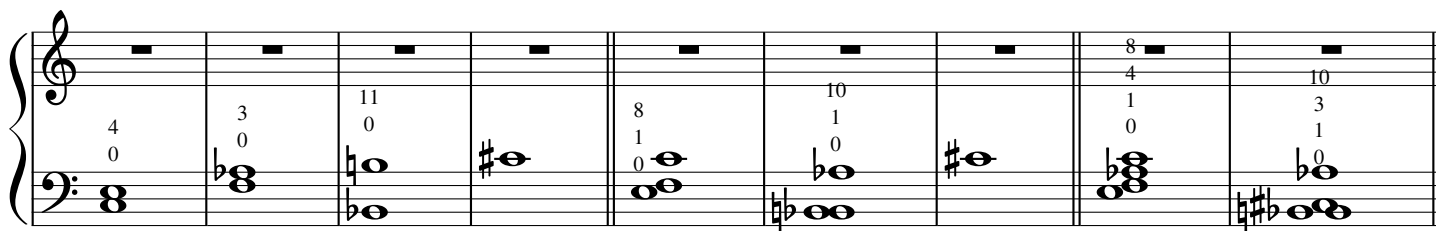
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236



240



Example 11

249

256

263

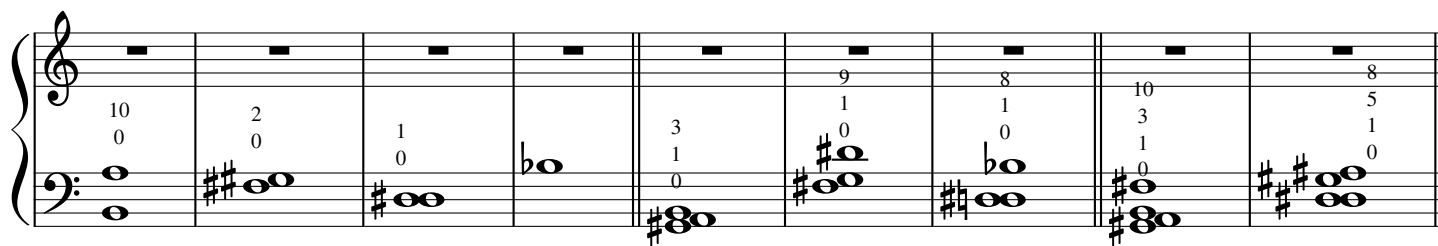
7 Pitch Retrograde Inversion

270

277

283

287

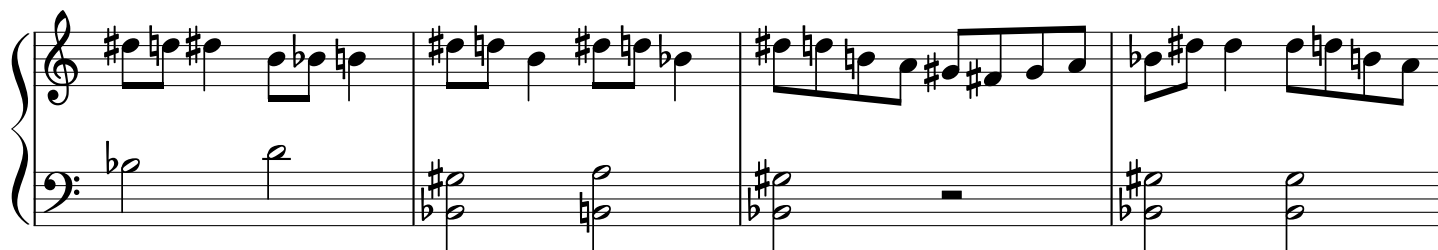


Example 12

296



301

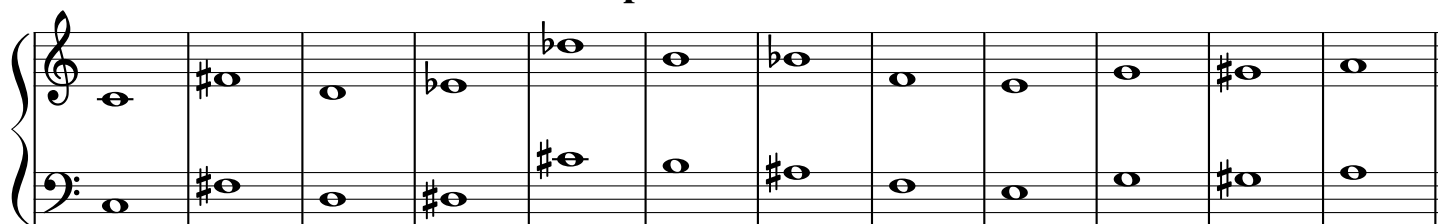


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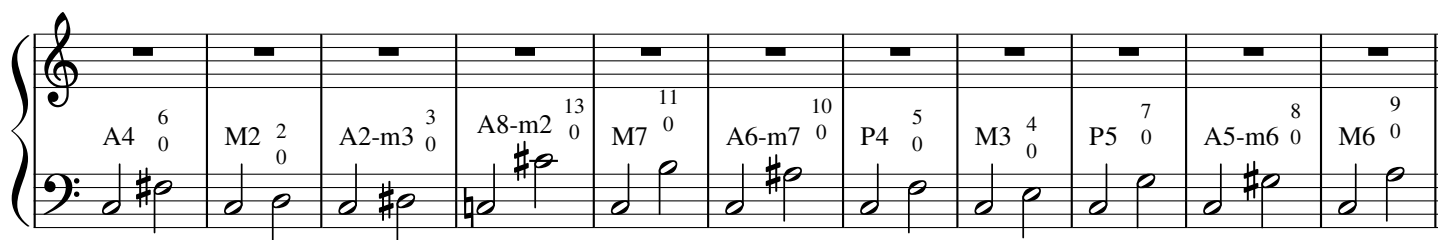


12 pitch fundamental series

308



320



331

Exercise 331 displays a sequence of intervals in a grand staff. The treble clef contains a whole rest in every measure. The bass clef contains a whole note in every measure, with the interval name written above it. The intervals are: +P4, -M3, +m2, +m7, -M2, -m2, -P4, -m2, +m3, +m2, +m2, and -M6.

343

2 Pitch concurrencies

Exercise 343 shows two pitch concurrencies in a grand staff. The treble clef contains a whole rest in every measure. The bass clef contains two whole notes in every measure, with the interval name written above them. The intervals are: 6/0, 1/0, 2/0, 5/0, 3/0, and 1/0.

349

3 Pitch chords

Exercise 349 displays three pitch chords in a grand staff. The treble clef contains a whole rest in every measure. The bass clef contains three whole notes in every measure, with the interval name written above them. The intervals are: 6/2/0, 10/8/0, 6/2/0, and 2/1/0.

353

Seperate 4 pitch chords

Forward Juxtaposed 4 pitch chords

Exercise 353 shows four pitch chords in a grand staff. The treble clef contains a whole rest in every measure. The bass clef contains four whole notes in every measure, with the interval name written above them. The intervals are: 9/4/1/0, 8/4/1/0, 9/2/1/0, 10/4/1/0, 5/4/2/0, 6/4/1/0, and 6/2/1/0.

360

Together with its inversion

Exercise 360 displays a chord and its inversion in a grand staff. The treble clef contains a whole note in every measure, and the bass clef contains a whole note in every measure. The intervals are: 9/4/1/0, 8/4/1/0, 9/2/1/0, 10/4/1/0, 5/4/2/0, 6/4/1/0, and 6/2/1/0.

372

Retrograde together with retrograde's inversion

Exercise 372 shows a retrograde chord and its inversion in a grand staff. The treble clef contains a whole note in every measure, and the bass clef contains a whole note in every measure. The intervals are: 9/4/1/0, 8/4/1/0, 9/2/1/0, 10/4/1/0, 5/4/2/0, 6/4/1/0, and 6/2/1/0.

Horizontal 12 tone series application

♩ = 80

Canon1

Measures 384-407. Treble clef: G4, A#4, B4, C5, D5, E5, F#5, G5, A5, B5, C6, D6, E6, F#6. Bass clef: G3, A3, B3, C4, D4, E4, F#4, G4, A4, B4, C5, D5, E5, F#5.

398

Horizontal Series Canon2

Measures 398-410. Treble clef: G4, A#4, B4, C5, D5, E5, F#5, G5, A5, B5, C6, D6, E6, F#6. Bass clef: G3, A3, B3, C4, D4, E4, F#4, G4, A4, B4, C5, D5, E5, F#5.

411

Horizontal Series Canon3

Measures 411-423. Treble clef: G4, A#4, B4, C5, D5, E5, F#5, G5, A5, B5, C6, D6, E6, F#6. Bass clef: G3, A3, B3, C4, D4, E4, F#4, G4, A4, B4, C5, D5, E5, F#5.

425

Horizontal Series Canon4

Measures 425-437. Treble clef: G4, A#4, B4, C5, D5, E5, F#5, G5, A5, B5, C6, D6, E6, F#6. Bass clef: G3, A3, B3, C4, D4, E4, F#4, G4, A4, B4, C5, D5, E5, F#5.

Example 13

438

Measures 438-445. Treble clef: G4, A#4, B4, C5, D5, E5, F#5, G5, A5, B5, C6, D6, E6, F#6. Bass clef: G3, A3, B3, C4, D4, E4, F#4, G4, A4, B4, C5, D5, E5, F#5.

446

Measures 446-453. Treble clef: G4, A#4, B4, C5, D5, E5, F#5, G5, A5, B5, C6, D6, E6, F#6. Bass clef: G3, A3, B3, C4, D4, E4, F#4, G4, A4, B4, C5, D5, E5, F#5.

454

12 pitch inversion series

462

474

479

485

2 Pitch concurrencies

497

503

3 Pitch chords

507

Seperate 4 pitch chords

Forward Juxtaposed 4 pitch chords

514

Example 14

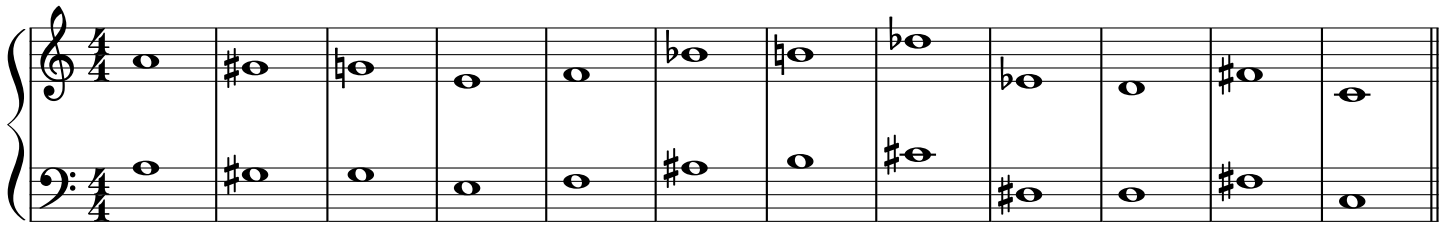
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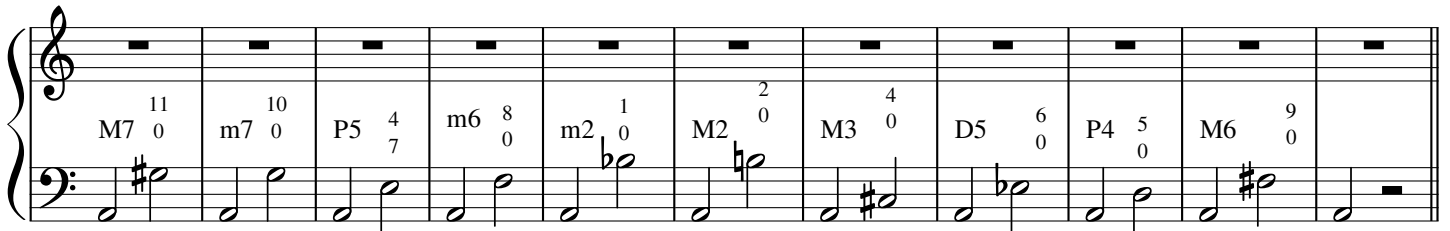
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12 pitch retrograde series

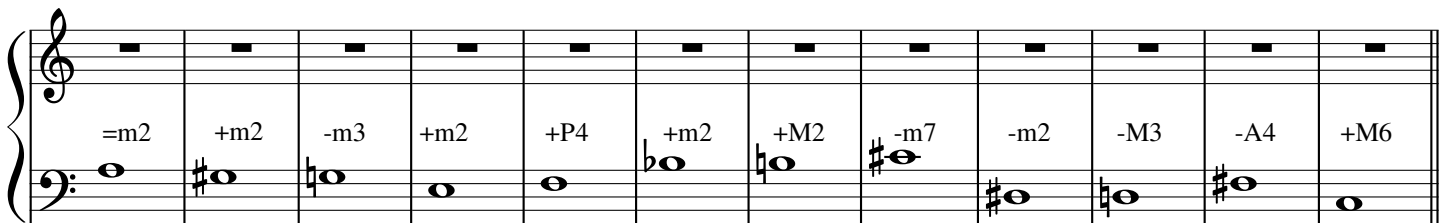
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554

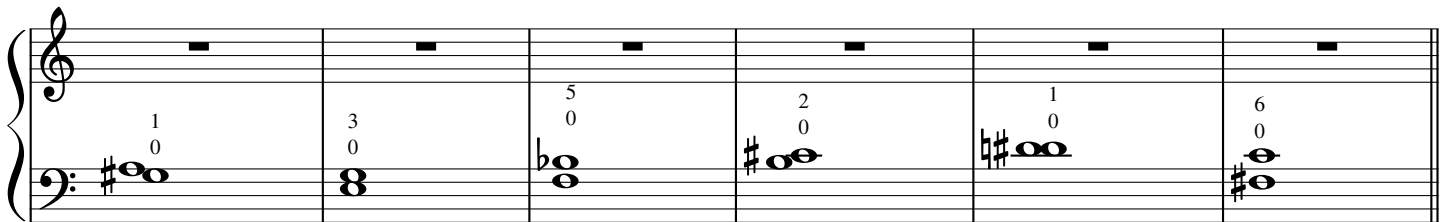


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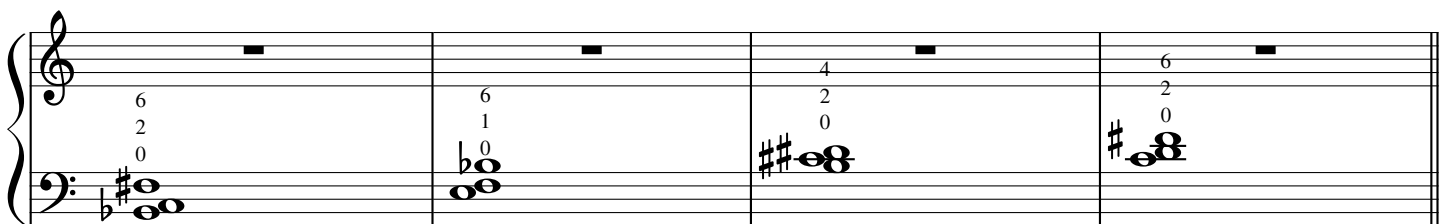
2 Pitch concurrencies

577



3 Pitch chords

583



Seperate 4 pitch chords

587



Forward Juxtaposed 4 pitch chords

Example 15

594

Measures 594-597. The bass clef contains triplets of eighth notes. The treble clef has whole rests.

598

Measures 598-601. The bass clef contains triplets of eighth notes. The treble clef has whole rests.

602

Measures 602-603. The bass clef contains triplets of eighth notes. The treble clef has whole rests.

12 pitch retrograde inversion series

604

Measures 604-615. The bass clef contains whole notes. The treble clef contains whole notes.

616

Measures 616-626. The bass clef contains whole notes. The treble clef contains whole notes with interval labels: m2, M2, P4, M3, M7, m7, m6, D5, P5, m3, M6.

627

Measures 627-638. The bass clef contains whole notes. The treble clef contains whole notes with interval labels: +m2, +m2, +m3, -m1, -P4, +m2, -M2, +m7, +m2, -M3, +M2, +m3.

639

2 Pitch concurrencies

645

3 Pitch chords

649

Seperate 4 pitch chords

Forward Juxtaposed 4 pitch chords

Example 16

656

658

660

663

Musical score for measures 663-666. The score is written for two staves, Treble and Bass. The key signature is one sharp (F#). The time signature is not explicitly shown but is implied to be 4/4 based on the notation. The score consists of four measures, each containing a triplet of eighth notes in the Treble staff and a triplet of quarter notes in the Bass staff. The notes in the Treble staff are G4, A4, and B4. The notes in the Bass staff are F#3, G3, and A3. The triplet markings '3' are placed below the notes in both staves. The piece concludes with a double bar line at the end of measure 666.