

ARBAN

EXPANSION PACK

CC TUBA EDITION

CLASSIC EXERCISES
ADAPTED FOR TODAY'S
MUSICIANS

by Matt Stock

Introduction

First published circa 1859 Jean-Baptiste Arban's *Grande méthode complète pour cornet à pistons et de saxhorn* is an integral part of the practice routines of trumpeters around the globe. The First Studies, which stress an even tone and attack in the middle register are among the most frequently assigned exercises in our studies. This book expands on Arban's work by presenting these exercises in tonal patterns that we frequently encounter in music of the twentieth and twenty-first centuries.

Although the initial inspiration for this project was second-hand accounts that several of William Adam's well-known students practice Arban's exercises in various modalities, I make no claim that these variations are the exercises they do. These are simply my own application of the same concept.

Courtesy accidentals have been deliberately omitted. While they may help with the initial reading of an exercise, in my own practice I came to realize that there are more benefits in learning to truly hear the pattern rather than relying on courtesy accidentals to remind me which valve to push.

At first glance this may seem to be an overwhelming amount of material. Please remember that there are only two whole-tone and three diminished scales. Once their sound is learned it is simply a matter of applying the new sound to the familiar exercise. It is advisable to play the original version of an exercise as well as the alteration to serve as a reference point for tone quality, articulation, and fluency.

Frequently Used Scales

C Whole Tone



C Whole Half Diminished



C Half Whole Diminished



F Whole Tone



F Half Whole Diminished



G Whole Tone



G Whole Half Diminished



G Half Whole Diminished



11 Relative Minor



11 Whole Tone



11 Whole-half diminished



11 Half-Whole Diminished



12 Relative Minor



12 Whole Tone



12 Whole Half Diminished



12 Half Whole Diminished



13 Relative Minor



The image displays four staves of musical notation for the bass line of the song 'The Rose Tree'. The music is written in 4/4 time and features a key signature of one sharp (F#). The notation includes various note values such as quarter, eighth, and sixteenth notes, as well as rests. The melody is characterized by a simple, folk-like structure with a clear harmonic progression. The first staff begins with a treble clef and a key signature of one sharp. The subsequent staves continue the melody, with the final staff ending with a double bar line. The notation is presented in a clean, black-and-white format, typical of a musical score.

The image displays four staves of musical notation for the bass line of the song 'The Rose Tree'. The notation is written in bass clef with a 4/4 time signature. The melody consists of eighth and quarter notes, with some measures containing rests. The key signature is one flat (B-flat), and the piece concludes with a double bar line.

13 Half Whole Diminished



14 Relative Minor



14 Whole Tone



14 Whole-Half Diminished



14 Half-Whole Diminished



15 Relative Minor



15 Whole Tone



15 Whole Half Diminished



15 Half Whole Diminished



16 Relative Minor



16 Whole tone



16 Whole half diminished



16 Half-whole diminished



17 Relative Minor



17 Whole Tone



17 Whole Half Diminished



17 Half Whole Diminished



18 Relative Minor



18 Whole tone



18 Whole Half Diminished



18 Half Whole Diminished



19 Relative Minor



19 Whole Tone



19 Whole Half Diminished



19 Half Whole Diminished



20 Relative Minor



20 Whole Tone



20 Whole-Half Diminished



20 Half-Whole Diminished



21 Relative Minor



21 Whole Tone



21 Whole Half Diminished

A musical score for a piece titled "21 Whole Half Diminished". The score is written in bass clef with a 4/4 time signature. It consists of seven staves of music. The first staff begins with a key signature of one flat (Bb) and a common time signature of 4/4. The melody is composed of eighth and quarter notes, with some accidentals (sharps and flats) indicating a chromatic or diminished scale. The second staff continues the melody with similar note values and accidentals. The third staff shows a continuation of the melodic line. The fourth staff features a sequence of notes that suggest a diminished scale. The fifth staff continues the melodic progression. The sixth staff shows the melody moving towards the end of the piece. The seventh staff concludes the piece with a final note and a double bar line.

21 Half Whole Diminished



22 Relative Minor



22 Whole Tone



22 Whole Half Diminished



22 Half Whole Diminished



23 Relative Minor



23 Whole Tone



23 Whole-Half Diminished



23 Half-Whole diminished

A musical score for a piece titled "23 Half-Whole diminished". The score is written in 4/4 time and consists of five staves. The first staff is in treble clef, and the subsequent four staves are in bass clef. The music is composed of eighth and quarter notes, with various accidentals (sharps, flats, and naturals) indicating a complex harmonic structure. The piece concludes with a double bar line on the fifth staff.

23 -- Chromatic

The musical score is written in bass clef with a 4/4 time signature. The key signature contains one flat (B-flat). The exercise is a chromatic scale, consisting of eight measures of eighth notes, followed by a whole note, and ending with a double bar line. The notes are as follows:

Measure	Notes
1	B $\flat$, A, G, F, E, D, C, B $\flat$
2	B $\flat$, A, G, F, E, D, C, B $\flat$
3	B $\flat$, A, G, F, E, D, C, B $\flat$
4	B $\flat$, A, G, F, E, D, C, B $\flat$
5	B $\flat$, A, G, F, E, D, C, B $\flat$
6	B $\flat$, A, G, F, E, D, C, B $\flat$
7	B $\flat$, A, G, F, E, D, C, B $\flat$
8	B $\flat$, A, G, F, E, D, C, B $\flat$
9	B $\flat$ (whole note)
10	End of exercise (double bar line)

24 Relative Minor



24 Whole Tone



24 Chromatic



25 Relative Minor



25 Whole Tone



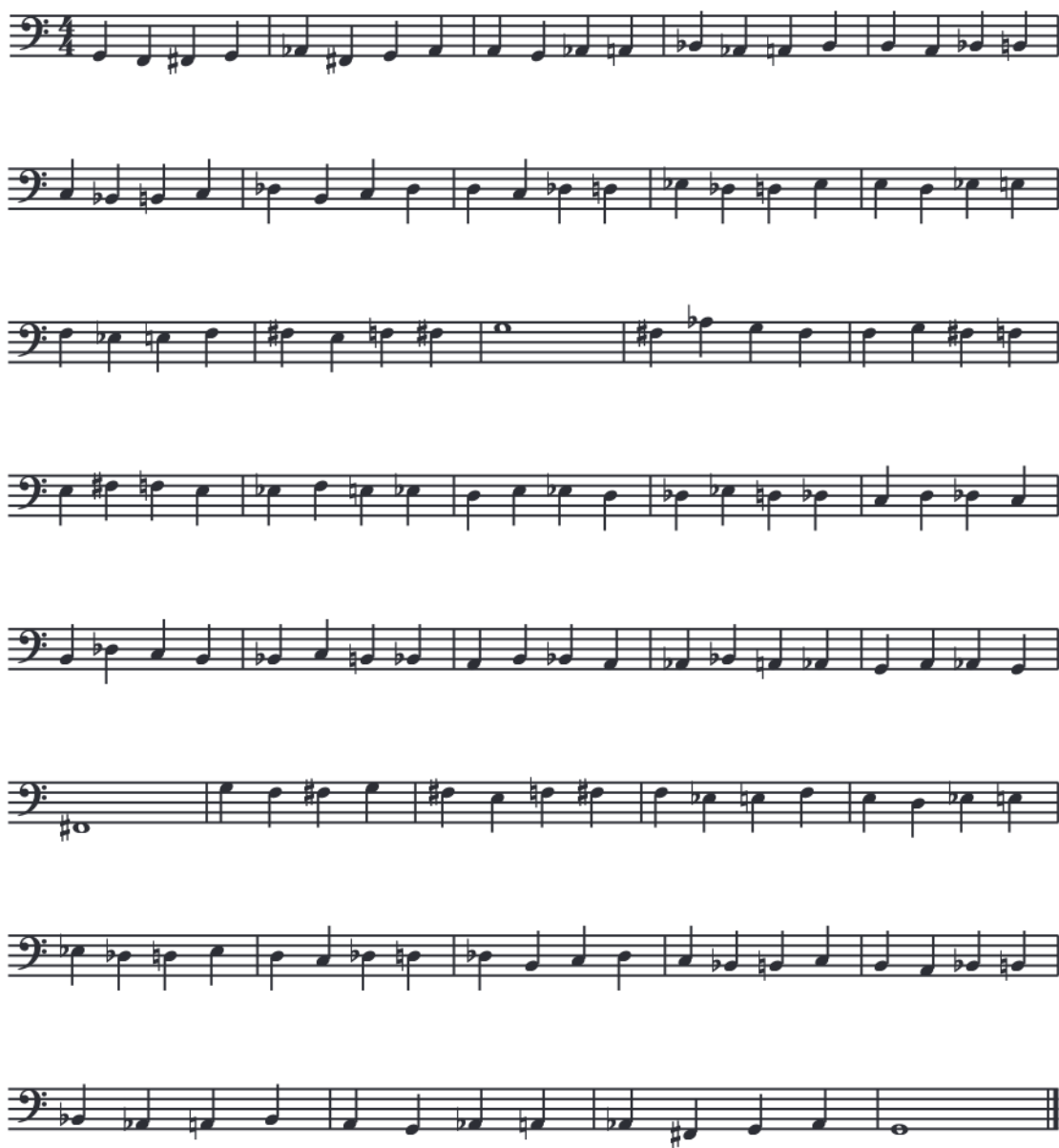
25 Whole Half Diminished



25 Half Whole Diminished



25 Chromatic



26 Relative Minor



26 Whole Tone



26 Whole-Half Diminished

This musical score is written for a single melodic line in bass clef, 3/4 time. It consists of six measures. The key signature has one flat (B-flat). The notes in each measure are as follows:

- Measure 1: C2, D2, E2 (quarter), F2 (half)
- Measure 2: G2, A2, B2 (quarter), C3 (half)
- Measure 3: D3, E3, F3 (quarter), G3 (half)
- Measure 4: A3, B3, C4 (quarter), D4 (half)
- Measure 5: E4, F4, G4 (quarter), A4 (half)
- Measure 6: B4, C5, D5 (quarter), E5 (half)

The notes are written on a five-line staff, with some notes (C2, D2, E2, F2, G2, A2, B2, C3, D3, E3, F3, G3, A3, B3, C4, D4, E4, F4, G4, A4, B4, C5, D5, E5) extending below the staff lines. The final measure ends with a double bar line.

26 Half-Whole Diminished

A musical score for a piece titled "26 Half-Whole Diminished". The score is written in bass clef with a key signature of one flat (B-flat) and a time signature of 3/4. It consists of six staves of music. The first staff begins with a treble clef and a key signature of one flat, followed by a bass clef and a key signature of one flat. The music is composed of eighth and sixteenth notes, with some measures containing rests. The second staff continues the melody, featuring a half note and a quarter note. The third staff shows a sequence of eighth notes. The fourth staff includes a half note and a quarter note. The fifth staff features a sequence of eighth notes. The sixth staff concludes the piece with a double bar line.

27 Relative Minor



27 Whole Tone



27 Half-whole diminished



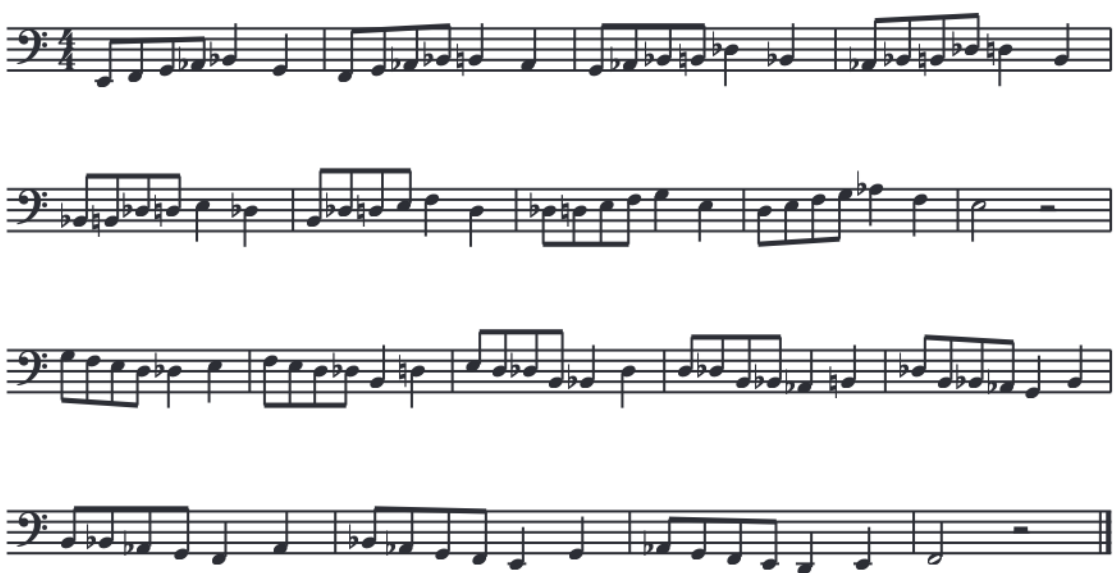
28 Relative Minor



28 Whole Tone



28 Whole Half Diminished



28 Half Whole Diminished



29 Relative Minor



29 Whole Tone



29 Whole Half Diminished



29 Half Whole Diminished



30 Relative Minor



30 Whole Tone



30 Whole Half Diminished



30 Half Whole Diminished



31 Relative Minor



31 Whole Tone



31 Whole-half diminished



31 Half-whole diminished



32 Relative Minor



52 Whole Tone

52 Whole Tone

[illegible]

32 Half-Whole Diminished



33 Relative Minor



33 Whole Tone



33 Whole Half Diminished

This musical score is written in bass clef with a 4/4 time signature. It consists of six staves of music. The key signature has one flat (B-flat). The notation includes various rhythmic values: quarter notes, eighth notes, and sixteenth notes, often beamed together. There are also whole notes and half notes. The piece concludes with a double bar line on the sixth staff.

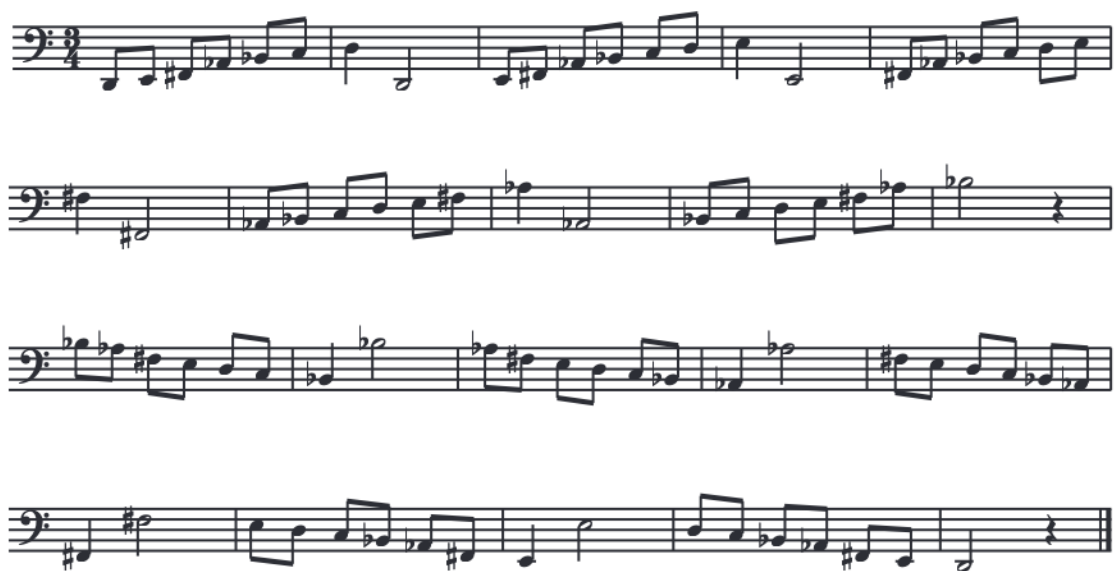
33 Half Whole Diminished



34 Relative Minor



34 Whole Tone



34 Whole-Half Diminished



34 Half-Whole Diminished



35 Relative Minor



35 Whole Tone



35 Whole-Half Diminished



35 Half-Whole Diminished



36 Relative Minor



36 Whole Tone



36 Whole Half Diminished



36 Half-Whole Diminished

This musical score is for exercise 36, titled "Half-Whole Diminished". It is written in bass clef with a 9/4 time signature. The piece consists of eight measures of music. The notes are as follows:

- Measure 1: G2, A2, B2, C3, D3, E3
- Measure 2: F3, G3, A3, B3, C4, D4
- Measure 3: E4, F4, G4, A4, B4, C5
- Measure 4: D5, E5, F5, G5, A5, B5
- Measure 5: C6, D6, E6, F6, G6, A6
- Measure 6: B6, C7, D7, E7, F7, G7
- Measure 7: A7, B7, C8, D8, E8, F8
- Measure 8: G8, A8, B8, C9, D9, E9

The score ends with a double bar line and repeat dots.

37 Relative Minor



37 Whole Tone



37 Whole Half Diminished



37 Half Whole Diminished



38 Relative Minor

The musical score is written in bass clef with a 3/4 time signature and a key signature of one sharp (F#). The melody is composed of six staves. The first staff begins with a treble clef and a key signature of one sharp, then switches to a bass clef. The music features a mix of eighth and quarter notes, with some measures containing accidentals (sharps and naturals). The piece concludes with a double bar line on the sixth staff.

38 Whole Tone



38 Whole Half Diminished

This musical score is written in bass clef with a 3/4 time signature. It consists of eight measures of music. The notes and accidentals are as follows:

- Measure 1: B-flat, C, D-flat, E-flat, F, G, A-flat, B-flat.
- Measure 2: C, D, E, F, G, A, B, C.
- Measure 3: D, E, F, G, A, B, C, D.
- Measure 4: E, F, G, A, B, C, D, E.
- Measure 5: F, G, A, B, C, D, E, F.
- Measure 6: G, A, B, C, D, E, F, G.
- Measure 7: A, B, C, D, E, F, G, A.
- Measure 8: B, C, D, E, F, G, A, B.

38 Half Whole Diminished

A musical score for a piece titled "38 Half Whole Diminished". The score is written in bass clef with a 3/4 time signature. It consists of eight staves of music. The first staff begins with a key signature of one flat (B-flat). The melody is composed of eighth and quarter notes, with some measures containing beamed eighth notes. The second staff continues the melody with similar rhythmic patterns. The third staff introduces a more complex rhythmic pattern with beamed eighth notes and quarter notes. The fourth staff features a sequence of eighth notes and quarter notes, ending with a half note and a quarter rest. The fifth staff continues the melody with eighth and quarter notes. The sixth staff shows a variation with beamed eighth notes and quarter notes. The seventh staff continues the melody with eighth and quarter notes. The eighth staff concludes the piece with a final measure containing a half note and a quarter rest, followed by a double bar line.

39 Relative Minor



39 Whole Tone



39 Whole Half Diminished



39 Half Whole Diminished



40 Relative Minor

The musical score is written in bass clef with a key signature of two flats (B-flat major) and a 3/4 time signature. The melody consists of the following notes across eight measures:

- Measure 1: G2, A2, Bb2, A2, G2
- Measure 2: F2, E2, D2, C2
- Measure 3: Bb2, A2, G2, F2, E2
- Measure 4: D2, C2, Bb2, A2, G2
- Measure 5: F2, E2, D2, C2, Bb2
- Measure 6: A2, G2, F2, E2, D2
- Measure 7: C2, Bb2, A2, G2, F2
- Measure 8: E2, D2, C2, Bb2, A2

40 Whole Tone

This musical score is written in bass clef with a 3/4 time signature. It consists of five staves of music, each containing a sequence of notes primarily in whole and half note values. The key signature is one flat (B-flat). The first staff contains six measures of music. The second staff contains six measures. The third staff contains six measures, including a measure with a whole rest. The fourth staff contains six measures. The fifth staff contains five measures, ending with a double bar line. The notes are as follows:

Staff	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
1	B $\flat$ 4, A4, G4, F#4, E4, D4	C4, B $\flat$ 3, A3, G3, F3, E3	D3, C3, B $\flat$ 2, A2, G2, F2	E2, D2, C2, B $\flat$ 1, A1, G1	F1, E1, D1, C1, B $\flat$ 0, A0	G0, F0, E0, D0, C0, B $\flat$ 0
2	A0, G0, F0, E0, D0, C0	B $\flat$ 0, A0, G0, F0, E0, D0	C0, B $\flat$ 0, A0, G0, F0, E0	D0, C0, B $\flat$ 0, A0, G0, F0	E0, D0, C0, B $\flat$ 0, A0, G0	F0, E0, D0, C0, B $\flat$ 0, A0
3	G0, F0, E0, D0, C0, B $\flat$ 0	A0, G0, F0, E0, D0, C0	B $\flat$ 0, A0, G0, F0, E0, D0	C0, B $\flat$ 0, A0, G0, F0, E0	D0, C0, B $\flat$ 0, A0, G0, F0	E0, D0, C0, B $\flat$ 0, A0, G0
4	F0, E0, D0, C0, B $\flat$ 0, A0	G0, F0, E0, D0, C0, B $\flat$ 0	A0, G0, F0, E0, D0, C0	B $\flat$ 0, A0, G0, F0, E0, D0	C0, B $\flat$ 0, A0, G0, F0, E0	D0, C0, B $\flat$ 0, A0, G0, F0
5	E0, D0, C0, B $\flat$ 0, A0, G0	F0, E0, D0, C0, B $\flat$ 0, A0	G0, F0, E0, D0, C0, B $\flat$ 0	A0, G0, F0, E0, D0, C0	B $\flat$ 0, A0, G0, F0, E0, D0	C0, B $\flat$ 0, A0, G0, F0, E0

40 Whole Half Diminished

A musical score for a piece titled "40 Whole Half Diminished". The score is written on six staves, each beginning with a bass clef and a 3/4 time signature. The key signature is one flat (B-flat). The notation includes various musical symbols such as eighth notes, quarter notes, and half notes, along with accidentals (sharps and flats) and a double bar line at the end of the sixth staff. The melody is composed of eighth and quarter notes, with some measures containing half notes. The overall structure is a single melodic line across six staves.

40 Half Whole Diminished



41 Relative Minor



41 Whole Tone



41 Whole Half Diminished



41 Half Whole Diminished



42 Relative Minor



42 Whole Tone



42 Whole Half Diminished



42 Half Whole Diminished



43 Relative Minor



43 Whole Tone



43 Whole Half Diminished



43 Half Whole Diminished



44 Relative Minor



44 Whole Tone



44 Whole Half Diminished



44 Half Whole Diminished



45 Relative Minor



45 Whole Tone



45 Whole Half Diminished



45 Half Whole Diminished



A Final Challenge – Twelve Tone Rows

By using all pitches of the chromatic scale before any pitch is repeated twelve-tone or serial music avoids creating a stable tonal center as we have grown accustomed to hearing when we play. Looking more closely at a row we frequently see groups of three or four notes in a now familiar pattern. As an example, consider the Alban Berg Violin Concerto.



Notes one through three form a minor triad. Notes three to six are a dominant seventh chord. Pitches six to eight are an augmented triad and seven to nine are a major triad. Finally, nine through 12 make a whole tone scale. Before playing for the first time it is advisable to spend a few moments scanning the exercise for these familiar patterns.

As a final challenge four exercises based on the tone rows of celebrated compositions are included. Each has been transposed to begin on F and consists of the original order (P_0) the retrograde inversion (upside-down and backwards, RI_0) and the retrograde (backwards, R_0). In this way each exercise is able to return to the starting pitch while obeying the rules of serial composition.

Alban Berg Violin Concerto

P RI

R

Detailed description: This block contains the first four measures of a musical piece in 4/4 time, written in bass clef. The key signature has one flat (B-flat). The notes are: Measure 1: G2, F2, E2, D2; Measure 2: C2, B1, A1, G1; Measure 3: F1, E1, D1, C1; Measure 4: B0, A0, G0, F0. The notes are beamed in pairs. Above the staff, 'P' is above measure 1 and 'RI' is above measure 3. Below the staff, 'R' is centered under measure 2. The piece ends with a double bar line.

Alban Berg -- Lulu, Basic Row

P RI

R

Detailed description: This block contains the first four measures of a musical piece in 4/4 time, written in bass clef. The key signature has one flat (B-flat). The notes are: Measure 1: G2, F2, E2, D2; Measure 2: C2, B1, A1, G1; Measure 3: F1, E1, D1, C1; Measure 4: B0, A0, G0, F0. The notes are beamed in pairs. Above the staff, 'P' is above measure 1 and 'RI' is above measure 3. Below the staff, 'R' is centered under measure 2. The piece ends with a double bar line.

Alban Berg -- Lyric Suite

P RI

R

Detailed description: This block contains the first four measures of a musical piece in 4/4 time, written in bass clef. The key signature has one flat (B-flat). The notes are: Measure 1: G2, F2, E2, D2; Measure 2: C2, B1, A1, G1; Measure 3: F1, E1, D1, C1; Measure 4: B0, A0, G0, F0. The notes are beamed in pairs. Above the staff, 'P' is above measure 1 and 'RI' is above measure 3. Below the staff, 'R' is centered under measure 2. The piece ends with a double bar line.

Arnold Schoenberg -- Vairations for Orchestra

P RI

R

Detailed description: This block contains the first four measures of a musical piece in 4/4 time, written in bass clef. The key signature has one flat (B-flat). The notes are: Measure 1: G2, F2, E2, D2; Measure 2: C2, B1, A1, G1; Measure 3: F1, E1, D1, C1; Measure 4: B0, A0, G0, F0. The notes are beamed in pairs. Above the staff, 'P' is above measure 1 and 'RI' is above measure 3. Below the staff, 'R' is centered under measure 2. The piece ends with a double bar line.