

# Vector Study

## Instrumentation

Flute I

Flute II (doubling piccolo)

Oboe I, II

Clarinet in B $\flat$  I

Clarinet in B $\flat$  II (doubling Bass Clarinet)

Bassoon I

Bassoon II (doubling Contrabassoon)

Horn I, II, III, IV

Trumpet in C I, II, III

Trombone I, II

Bass Trombone

Tuba

Percussion I, II, III

(Bass Drum, Triangle, Crash Cymbal, Suspended Cymbal, Wood Block, Glockenspiel, Maracas, Ratchet, Whip)

Piano

Violin I (12)

Violin II (10)

Viola (8)

Cello (6)

Contrabass (4)

**All the score is notated in C**

# Vector Study

The image displays a page from a musical score, likely for a symphony orchestra. The score is written in 4/4 time, with a tempo marking of 40 beats per minute (♩ = 40). The instruments listed on the left include Flutes I, II; Oboes I, II; Clarinets in Bb I, II; Bassoons I, II; Horn in F; Trumpets in C I, II, III; Trombones I, II; Bass Trombone; Tuba; Percussion I (Cymbals), Percussion II (Triangle), Percussion III (Sus. Cym. with bow); Piano; Violin I; Violin II; Viola; Violoncello; and Contrabass.

The score features various musical notations, including notes, rests, and dynamic markings. The woodwind and brass sections have several measures of music, with some measures marked with "breath tone" and "pp" (pianissimo). The percussion section includes a cymbal roll in measure 1, a triangle in measure 5, and a suspended cymbal with a bow in measure 9. The piano part is mostly silent, with a few notes in measure 1. The string section (Violin I, Violin II, Viola, Violoncello, and Contrabass) has a complex passage in measures 1-4, featuring many sixteenth and thirty-second notes, and then continues with a similar pattern in measures 5-9. The string parts are marked with "ppp" (pianississimo) and "con sord." (con sordina).

FL

breath tone

Ob.

breath tone

CL

breath tone

Bsn.

breath tone

Hr.

pp

Tpt.

Thn.

breath tone

B. Thn.

Ths.

Perc. I

Perc. II

Perc. III

pp

Vln. I

p

mp

Vln. II

p

mp

Vla.

mp

con sord.  
sul tasto

Vcl.

mp

con sord.  
sul tasto

Cb.

mp

The image displays a page from a musical score, specifically measures 16 through 3. The score is written for a symphony orchestra and includes staves for the following instruments:

- Woodwinds:** Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), Bassoon (Bsn.).
- Brass:** Trumpet (Tpt.), Trombone (Tbn.), Baritone (B. Tbn.), Tuba (Tba.).
- Percussion:** Percussion I, Percussion II, Percussion III.
- Strings:** Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vcl.), Contrabass (Cb.).

The score is written in 4/4 time. The key signature is one flat (B-flat). The tempo is marked "mod." (moderato). The score includes various musical notations such as notes, rests, and dynamic markings like "mp" (mezzo-piano) and "acc." (accelerando). The page number "16" is visible in the top left corner, and the measure number "3" is visible in the top right corner.

[illegible]

This image shows a page from a musical score, likely for a symphony. The score is written for a large ensemble, including woodwinds, brass, percussion, and strings. The instruments listed on the left side of the page are: Fl. (Flute), Ob. (Oboe), Cl. (Clarinet), Bsn. (Bassoon), Hrn. (Horn), Tpt. (Trumpet), Tbn. (Trombone), B. Tbn. (Baritone Trombone), Tba. (Tuba), Perc. I (Percussion I), Crot. (Crotchet), W.B. (Wood Block), Pno. (Piano), Vln. I (Violin I), Vln. II (Violin II), Vla. (Viola), Vcl. (Violoncello), and Cb. (Cello). The score is divided into four measures. The first measure contains various musical notations, including notes, rests, and dynamic markings such as 'ad lib.', 'W.T.', 'mp', 'mf', 'p', and 'molto sul pont.'. The second measure continues the notation, with a 'p' marking. The third and fourth measures are mostly empty, with some notes and rests. The score is written in a standard musical notation style, with a key signature of one flat and a time signature of 4/4.

This image shows a page from a musical score, likely for a symphony. The score is written for a large ensemble, including woodwinds, brass, percussion, and strings. The staves are arranged in a standard orchestral format, with woodwinds and brass at the top, percussion in the middle, and strings at the bottom. The score includes various musical notations, such as notes, rests, and dynamic markings like 'mp' (mezzo-piano) and 'pp' (pianissimo). The page is numbered '28' in the top right corner. The notation is in a standard musical notation style, with clefs, key signatures, and time signatures. The score is written in a single system, with all parts of the ensemble playing together. The music is in a major key, and the tempo is marked 'Allegro'. The score is written in a standard musical notation style, with clefs, key signatures, and time signatures. The score is written in a single system, with all parts of the ensemble playing together. The music is in a major key, and the tempo is marked 'Allegro'.



[illegible]

This page of a musical score is for a symphony, featuring a variety of instruments. The staves are arranged in a system, with each instrument having its own staff. The instruments included are:

- Fl. (Flute)
- Ob. (Oboe)
- Cl. (Clarinet)
- Bas. (Bassoon)
- Hr. (Horn)
- Trp. (Trumpet)
- Tbn. (Trombone)
- B. Tbn. (Baritone Trombone)
- Tba. (Tuba)
- Mrcs. (Mace)
- Crot. (Cymbal)
- W.B. (Triangle)
- Pno. (Piano)
- Vln. I (Violin I)
- Vln. II (Violin II)
- Vla. (Viola)
- Vcl. (Violoncello)
- Cb. (Contrabass)

The score includes musical notation, dynamics, and performance instructions. Key features include:

- Dynamic markings:** *mf* (mezzo-forte), *mp* (mezzo-piano), *p* (piano), *f* (forte).
- Performance instructions:** "To Picc." (To Piccolo), "To B. Cl." (To Bass Clarinet), "To Chm." (To Chime).
- Tempo markings:** *tr.* (trill).
- Instrument-specific markings:** "c.l.b." (cello/bass), "pizz." (pizzicato).
- Rehearsal marks:** Indicated by a double bar line and a number (e.g., 2, 4).

The score is written in a standard musical notation, with notes, rests, and other symbols indicating the pitch and rhythm of the music. The page is a single system, with each instrument's part written on its own staff.

2/4 4/4 2/4 4/4

FL Piccolo *mf*

Ob.

CL Bass Clarinet *mf*

Bsn. Contrabassoon *mf*

Hr.

Tpt.

Thn.

B. Thn.

Thb.

Mrs. *mf*

Crot. Glockenspiel *mf*

Tri. Wood Block *mf*

Pho.

Vln. I

Vln. II

Vla.

Vcl.

Ch.

This page of a musical score is for a symphony, featuring a variety of instruments. The top section includes staves for Flutes (Fl.), Oboes (Ob.), Clarinets (Cl.), Bassoons (Bsn.), Horns (Hr.), Trumpets (Tpt.), Trombones (Tbn.), Tuba (Tbn.), Glockenspiel (Glock.), and Woodwinds (W.B.). The bottom section includes staves for Violins I (Vln. I), Violins II (Vln. II), Viola (Vln.), Violoncello (Vcl.), and Double Bass (Cb.).

The score is written in 4/4 time, with a key signature of one flat (B-flat). It includes dynamic markings such as *mp* (mezzo-piano), *mf* (mezzo-forte), and *f* (forte). The tempo is marked as *accel.* (accelerando). The score is divided into measures, with some measures containing multiple staves for different instruments.

The score is written in a standard musical notation, with notes, rests, and other musical symbols. The instruments are listed on the left side of the page, and the measures are numbered at the top. The score is a page from a larger musical score, as indicated by the page number 10 in the top left corner.

FL

Ob.

CL

Bsn.

Hrn.

Tpt.

Thn.

B. Thn.

Ths.

B. D.

Glock.

W.B.

Phn.

Vln. I

Vln. II

Vln.

Vcl.

Ch.

[illegible]

This image shows a page from a musical score, likely for a symphony. The score is written for a large ensemble of instruments, including woodwinds, brass, percussion, and strings. The instruments listed on the left side of the page are: Fl. (Flute), Ob. (Oboe), Cl. (Clarinet), Bsn. (Bassoon), Hrn. (Horn), Tpt. (Trumpet), Tbn. (Trombone), B. Tbn. (Baritone Trombone), Tba. (Tuba), Tr. (Triangle), Glock. (Glockenspiel), Whip, Pno. (Piano), Vln. I (Violin I), Vln. II (Violin II), Vla. (Viola), Vcl. (Violoncello), and Cb. (Contrabass). The score is organized into measures, with each instrument having its own staff. Dynamic markings such as *mf* (mezzo-forte), *mp* (mezzo-piano), *f* (forte), and *p* (piano) are used throughout the score to indicate the volume of the music. The score also includes various musical notations, such as notes, rests, and articulation marks, which are used to define the melody and rhythm of the music. The page is numbered 13 in the top right corner.

Fl.

Ob.

Cl.

Bsn.

Hr.

Tpt.

Tbn.

B. Tbn.

Tba.

Tri.

Glock.

Whip

Pico.

Vln. I

Vln. II

Vla.

Vcl.

Cb.

10



89

Fl.

Ob.

Cl.

Bsn.

Hr.

Tpt.

Thu.

B. Thu.

Thu.

Trl.

Glock.

Whip.

Pho.

Vln. I

Vln. II

Vla.

Vcl.

Ch.

89

90

91

92

93

94

105

FL

Ob.

CL

Bsn.

Hr.

Tpt.

Thu.

B. Thu.

Thu.

Trl.

Glock.

Whip.

Pno.

Vln. I

Vln. II

Vla.

Vcl.

Ch.

FLUTE-1

This image displays a comprehensive musical score for a symphony, organized into two main systems. The first system (measures 110-114) features woodwinds, brass, and percussion. The second system (measures 115-119) features strings and additional woodwinds. The score includes various musical notations such as notes, rests, and dynamic markings (mp, f, mf, ff). Tempo changes are indicated by '2/4' and '4/4' time signatures. The instruments listed on the left include Flute (Fl), Oboe (Ob), Clarinet (Cl), Bassoon (Bsn), Horn (Hr), Trumpet (Tpt), Trombone (Tbn), Tuba (Tba), Triangle (Tri), Glockenspiel (Glock), Whip, Percussion (Pno), Violin I (Vln. I), Violin II (Vln. II), Viola (Vla), Cello (Vcl), and Double Bass (Cb).

This page of a musical score is divided into two systems. The top system covers measures 116 to 120, and the bottom system covers measures 121 to 125. The key signature changes from one flat (B-flat major) to two flats (B-flat and E-flat major) between measures 120 and 121.

**Woodwinds:** Flute (Fl.), Oboe (Ob.), Clarinet (Cl.), Bassoon (Bsn.), and Bass Clarinet (B. Cl.) are present. The Flute and Oboe parts have dynamic markings of *f* and *ff*. The Clarinet and Bassoon parts also show *f* and *ff* dynamics.

**Brass:** Trumpet (Tpt.), Trombone (Tbn.), Bass Trombone (B. Tbn.), and Euphonium/Tuba (Euph./Tub.) are present. The Trumpet and Trombone parts have dynamic markings of *mp* and *ff*. The Bass Trombone and Euphonium/Tuba parts also show *f* and *ff* dynamics.

**Percussion:** Bass Drum, Triangle, and Cymbals are present. The Bass Drum part has dynamic markings of *f* and *ff*. The Triangle and Cymbals parts also show *f* and *ff* dynamics.

**Strings:** Violin I (Vln. I), Violin II (Vln. II), Viola (Vla.), Violoncello (Vcl.), and Contrabass (Cb.) are present. The Violin I and Violin II parts have dynamic markings of *f* and *ff*. The Viola, Violoncello, and Contrabass parts also show *f* and *ff* dynamics.

The score includes various musical notations such as notes, rests, and dynamic markings (*f*, *ff*, *mp*). The key signature changes from one flat (B-flat major) to two flats (B-flat and E-flat major) between measures 120 and 121.

2/4 3 2/4 4 13/4

Fl.

Ob.

Cl.

Bsn.

Hr.

Tpt.

Thu.

B. Thu.

Thu.

B. D.

Trl.

Cym.

Pno.

Vln. I

Vln. II

Vla.

Vcl.

Ch.

Score page showing musical notation for various instruments including Flute, Oboe, Clarinet, Bassoon, Horns, Trumpets, Trombones, Tuba, Euphonium, Percussion, Violins, Viola, Violoncello, and Double Bass. The page includes measures with dynamic markings (f, ff) and time signatures (2/4, 3, 4, 13/4).

This image shows a page from a musical score, likely for a symphony. The score is written for a large ensemble of instruments, including woodwinds, brass, percussion, and strings. The notation is in standard musical notation, with staves for each instrument. The score includes various dynamic markings such as *meno mosso*, *rit.*, *mf*, *mp*, and *pp*. There are also markings for *multiphonics* and *III sul pont.* The score is divided into measures, with some measures containing rests and others containing notes. The overall layout is professional and detailed, typical of a high-quality musical score.

FL

flatt.

f

Ob.

mp

CL

mp

Bsn.

Hr.

Tpt.

Thn.

B. Thn.

Ths.

B. D.

Tri.

W.Ch.

Pno.

ppp

Vln. I

Vln. II

Vln.

Vc.

Ch.

Maracas

pp < p