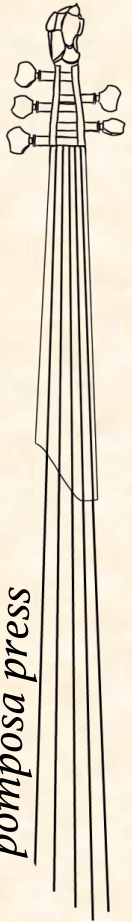


**RUDOLF
HAKEN**



**GUIDE TO SCALES IN
DOUBLE STOPS
FOR THE VIOLIN**

pomposa press

This is a step-by-step guide to playing scales in thirds, sixths, and octaves. Fingerings are identical for each key. Each scale spans one octave. Students should begin practicing double stop scales in two and three octaves only when scales in a span of one octave are perfectly in tune, fluent, and memorized.

Some students find it easiest to begin with octaves, as they are easiest to hear. It is vital to learn each voice individually with flawless intonation and fluency before attempting to play the voices together. When playing thirds and sixths, one voice plays from tonic to tonic, while the other voice plays from mediant to mediant. Students should learn the tonic-to-tonic voice first. Therefore, when learning scales in thirds, students first learn the bottom voice, whereas when learning scales in sixths, students first learn the top voice. It is important to learn each voice individually with the exact fingerings which will be used when playing the voices together.

Harmonic minor scales in double stops can be difficult to hear, particularly when playing in thirds, where the top voice plays from mediant to mediant. Harmonic minor scales in sixths can be awkward to execute due to the interval of an augmented second between the submediant and the leading tone. Thus, the fingerings for harmonic minor scales in sixths are unusual. However, with practice these should not present a problem.

In an effort to provide identical fingerings for each key, open strings are avoided. Therefore, for each individual key, the fingerings provided in this book are not necessarily the easiest or most idiomatic. The overall convenience of having to learn only one set of fingerings overrides the consideration of using the best possible fingering for each key.

TABLE OF CONTENTS

SCALES IN THIRDS

Pages 6-7	Major scales in thirds, bottom voice
Pages 8-9	Major scales in thirds, top voice
Pages 10-11	Major scales in broken thirds
Pages 12-15	Major scales in thirds
Pages 16-17	Harmonic minor scales in thirds, bottom voice
Pages 18-19	Harmonic minor scales in thirds, top voice
Pages 20-23	Harmonic minor scales in broken thirds
Pages 24-26	Harmonic minor scales in thirds

SCALES IN SIXTHS

Pages 28-29	Major scales in sixths, top voice
Pages 30-31	Major scales in sixths, bottom voice
Pages 32-35	Major scales in broken sixths
Pages 36-38	Major scales in sixths
Pages 39-40	Harmonic minor scales in sixths, top voice
Pages 41-42	Harmonic minor scales in sixths, bottom voice
Pages 43-46	Harmonic minor scales in broken sixths
Pages 47-49	Harmonic minor scales in sixths

SCALES IN OCTAVES

Pages 52-53	Major scales in octaves, bottom voice
Pages 54-55	Major scales in octaves, top voice
Pages 56-59	Major scales in broken octaves
Pages 60-62	Major scales in octaves
Pages 63-64	Harmonic minor scales in octaves, bottom voice
Pages 65-66	Harmonic minor scales in octaves, top voice
Pages 67-70	Harmonic minor scales in broken octaves
Pages 71-73	Harmonic minor scales in octaves

Major scales in thirds, bottom voice

The image displays twelve staves of music, each representing a major scale in thirds for the bottom voice. The scales are: C MAJ., C# MAJ., D MAJ., Eb MAJ., E MAJ., F MAJ., F# MAJ., G MAJ., Ab MAJ., A MAJ., Bb MAJ., and B MAJ. Each staff begins with a treble clef and a key signature symbol. The scales are written in a 3-4-3-4 pattern, with the first and third measures of each scale starting on a G. Above each staff, the starting notes for the first and second measures are indicated by letters (G or D) and numbers (3 or 4) to show the interval and fingering. The scales are arranged in a sequence that covers all twelve major keys, including those with sharps and flats.

Major scales in thirds, top voice

This musical score displays twelve major scales in thirds, specifically for the top voice. Each scale is presented on a single staff in treble clef, with a 4/4 time signature. The scales are: C Major, C# Major, D Major, Eb Major, E Major, F Major, F# Major, G Major, Ab Major, A Major, Ab Major, and B Major. The notation includes fingerings (1 and 2) and accents for each note. Chord symbols (D, A, E) are placed above the staff to indicate the starting and ending chords of the scale runs. The scales are arranged in a sequence that covers a wide range of keys, including those with sharps, naturals, and flats.

Major scales in broken thirds

C MAJ.

C# MAJ.

D MAJ.

Eb MAJ.

E MAJ.

F MAJ.

The image displays the first six major scales in broken thirds, each with two staves: an ascending staff and a descending staff. The scales are: C Major, C# Major, D Major, Eb Major, E Major, and F Major. Each scale is written in treble clef with a key signature of one sharp (F#) or one flat (Bb). The notation includes fingerings (1, 2, 3, 4) and slurs for the broken thirds. The ascending staff shows the scale starting on the tonic, and the descending staff shows the scale starting on the tonic and ending on the tonic. The scales are arranged in a sequence that follows the circle of fifths: C, C#, D, Eb, E, F.

Major scales in broken thirds, continued

F# MAJ.

G MAJ.

A♭ MAJ.

A MAJ.

B♭ MAJ.

B MAJ.

The image displays the first system of musical notation for five major scales: F# Major, G Major, A-flat Major, A Major, and B-flat Major. Each scale is presented on a single treble clef staff. The notation consists of a sequence of eighth notes, with the first two notes of each pair beamed together. The scales are: F# Major (F#4, G#4, A4, B4, C5, D5, E5, F#5), G Major (G4, A4, B4, C5, D5, E5, F#5, G5), A-flat Major (A3, Bb3, C4, D4, E4, F4, G4, Ab4), A Major (A3, B3, C4, D4, E4, F#4, G4, A4), and B-flat Major (Bb3, C4, D4, Eb4, F4, G4, Ab4, Bb4). The second system of notation for each scale is partially visible at the bottom of the page.

Major scales in thirds

The image displays twelve musical staves, each representing a major scale in thirds. The scales are: C MAJ., C# MAJ., D MAJ., Eb MAJ., E MAJ., F MAJ., F# MAJ., G MAJ., Ab MAJ., A MAJ., Bb MAJ., and B MAJ. Each staff begins with a treble clef and a key signature symbol. The notes are written in pairs (thirds) on a five-line staff. Above each pair of notes, two numbers (1 and 2) indicate the fingering for the left and right hands, respectively. The scales are arranged in a sequence that covers all twelve major keys. The C MAJ. scale starts on C4, and the B MAJ. scale starts on B4. The scales are written in a way that they can be played in either hand, with the left hand notes on the lower line and the right hand notes on the upper line of the staff.

Harmonic minor scales in thirds, top voice

The image displays twelve musical staves, each representing a different harmonic minor scale. Each staff is labeled on the left with its key signature: C MIN., C# MIN., D MIN., Eb MIN., E MIN., F MIN., F# MIN., G MIN., Ab MIN., A MIN., Bb MIN., and B MIN. The scales are written in treble clef with a key signature of one flat. The notes are grouped in pairs (thirds), and each pair is accompanied by a fingering number (1 or 2) above it. Chord symbols (D, A, E) are placed above the staves at specific intervals to indicate harmonic support. The scales are: C MIN. (D, A), C# MIN. (D, A), D MIN. (D, A), Eb MIN. (D, A), E MIN. (D, A), F MIN. (D, A), F# MIN. (D, A), G MIN. (A, E), Ab MIN. (A, E), A MIN. (A, E), Bb MIN. (A, E), and B MIN. (A, E).

Harmonic minor scales in broken thirds

The image displays six sets of musical notation, each representing a harmonic minor scale in broken thirds. Each set consists of two staves: a treble clef staff and a bass clef staff. The scales are: C MIN., C# MIN., D MIN., Eb MIN., E MIN., and F MIN. Each scale is written in a 4/4 time signature. The notation includes fingerings (1, 2, 3, 4) and slurs to indicate the broken third intervals. The scales are arranged in ascending and descending directions across the two staves of each set.

Harmonic minor scales in broken thirds, cont.

F# MIN.

G MIN.

A♭ MIN.

A MIN.

B♭ MIN.

B MIN.

The image displays the first system of musical notation for six harmonic minor scales in broken thirds: F# minor, G minor, A-flat minor, A minor, B-flat minor, and B minor. Each scale is presented on a single staff with a treble clef and a key signature of one sharp (F#). The scales are written in a broken third pattern, with the upper voice moving in a descending sequence and the lower voice moving in an ascending sequence. The notation includes fingerings (1, 2, 3, 4) and slurs to indicate the phrasing of the broken thirds. The scales are: F# MIN. (F#4, G4, A4, B4, C5, D5, E5, F#5), G MIN. (G4, A4, B4, C5, D5, E5, F#5, G5), A♭ MIN. (A4, B4, C5, D5, E5, F#5, G5, A5), A MIN. (A4, B4, C5, D5, E5, F#5, G5, A5), B♭ MIN. (B4, C5, D5, E5, F#5, G5, A5, B5), and B MIN. (B4, C5, D5, E5, F#5, G5, A5, B5).

Harmonic minor scales in thirds

The image displays twelve musical staves, each representing a different harmonic minor scale. Each staff is labeled on the left with its key signature and name: C MIN., C# MIN., D MIN., Eb MIN., E MIN., F MIN., F# MIN., G MIN., Ab MIN., A MIN., Bb MIN., and B MIN. The scales are written in treble clef with a key signature of one flat. The notes are grouped in pairs (thirds) and numbered 1 and 2 above them to indicate fingering. The scales are: C MIN. (C, Bb, D, Cb, E, D, F, Eb, G, F, Ab, Gb, A, Ab, Bb, C), C# MIN. (C#, B, D, C, E, D, F#, E#, G, F#, Ab, G#, A, Ab, B, C#), D MIN. (D, C, E, D, F, E, G, F, Ab, G, Bb, Ab, C, Bb, D), Eb MIN. (Eb, D, F, Eb, G, F, Ab, G, Bb, Ab, C, Bb, D, C, Eb), E MIN. (E, D, F, E, G, F, Ab, G, Bb, Ab, C, Bb, D, C, E), F MIN. (F, E, G, F, Ab, G, Bb, Ab, C, Bb, D, C, Eb, D, F), F# MIN. (F#, E, G, F, Ab, G, Bb, Ab, C, Bb, D, C, Eb, D, F#), G MIN. (G, F, Ab, G, Bb, Ab, C, Bb, D, C, Eb, D, F, Eb, G), Ab MIN. (Ab, G, Bb, Ab, C, Bb, D, C, Eb, D, F, Eb, G, F, Ab), A MIN. (A, G, Bb, A, C, Bb, D, C, Eb, D, F, Eb, G, F, A), Bb MIN. (Bb, Ab, C, Bb, D, C, Eb, D, F, Eb, G, F, Ab, G, Bb), and B MIN. (B, Ab, C, Bb, D, C, Eb, D, F, Eb, G, F, Ab, G, B).

Major scales in sixths, top voice

This musical score displays the top voice of major scales in sixths for twelve different keys. Each scale is presented on a single staff with a treble clef and a key signature. The scales are: C MAJ., C# MAJ., D MAJ., Eb MAJ., E MAJ., F MAJ., F# MAJ., G MAJ., Ab MAJ., A MAJ., Bb MAJ., and B MAJ. The notation includes fingerings (1-4) and bowing directions (2 for up-bow, 4 for down-bow) for each note. The scales are organized into three groups of four, with the first group (C, C#, D, Eb) and the last group (A, Bb, B) starting with an A major triad (A4, C4, E4) in the first measure. The second group (E, F, F#, G) and the third group (Ab, A, Bb) start with a D major triad (D4, F4, A4) in the first measure. The scales are written in a consistent pattern, with the first measure of each scale starting on the A4 note.

Major scales in sixths, bottom voice

C MAJ. D A D

C# MAJ. D A D

D MAJ. D A D

E \flat MAJ. D A D

E MAJ. D A D

F MAJ. G D G

F# MAJ. G D G

G MAJ. G D G

A \flat MAJ. G D G

A MAJ. G D G

B \flat MAJ. G D G

B MAJ. G D G

Major scales in broken sixths

C MAJ.

C# MAJ.

D MAJ.

Eb MAJ.

E MAJ.

F MAJ.

The image displays the first six major scales in broken sixths, each consisting of two staves: an ascending line and a descending line. The scales are: C Major, C# Major, D Major, Eb Major, E Major, and F Major. Each scale is written in treble clef with a key signature of one sharp or one flat. The notes are beamed in pairs, and fingerings (1-4) are indicated above each note. The ascending line starts on the first line of the staff, and the descending line ends on the first line. The scales are arranged in a sequence that covers the first six lines of the treble clef.

Major scales in broken sixths, cont.

F# MAJ.

G MAJ.

A♭ MAJ.

A MAJ.

B♭ MAJ.

B MAJ.

The image displays six major scales in broken sixths, each consisting of two staves of music. The scales are: F# MAJ., G MAJ., A♭ MAJ., A MAJ., B♭ MAJ., and B MAJ. Each scale is written in treble clef. The first staff of each scale shows the ascending line, and the second staff shows the descending line. Fingering numbers (1-4) are placed above or below notes to indicate fingerings. The scales are arranged in a sequence that covers the range of the violin from the first to the fifth position.

Major scales in sixths

This page contains twelve musical staves, each representing a major scale in sixths for a specific key. The scales are: C MAJ., C# MAJ., D MAJ., Eb MAJ., E MAJ., F MAJ., F# MAJ., G MAJ., Ab MAJ., A MAJ., Bb MAJ., and B MAJ. Each staff begins with a treble clef and a key signature. The notes are written in pairs (sixths) and are accompanied by fingering numbers (2, 3, 4) above them. The scales are arranged in ascending order of pitch, starting with C major and ending with B major. Each scale is presented in a single line of music, with a double bar line at the end of each line.

Harmonic minor scales in sixths, top voice

C MIN. A 2 2 3 4 E 2 2 4 4 4 2 2 A 4 3 2 2

C# MIN. A 2 2 3 4 E 2 2 4 4 4 2 2 A 4 3 2 2

D MIN. A 2 2 3 4 E 2 2 4 4 4 2 2 A 4 3 2 2

Eb MIN. A 2 2 3 4 E 2 2 4 4 4 2 2 A 4 3 2 2

E MIN. A 2 2 3 4 E 2 2 4 4 4 2 2 A 4 3 2 2

F MIN. D 2 2 3 4 A 2 2 4 4 4 2 2 D 4 3 2 2

F# MIN. D 2 2 3 4 A 2 2 4 4 4 2 2 D 4 3 2 2

G MIN. D 2 2 3 4 A 2 2 4 4 4 2 2 D 4 3 2 2

Ab MIN. D 2 2 3 4 A 2 2 4 4 4 2 2 D 4 3 2 2

A MIN. D 2 2 3 4 A 2 2 4 4 4 2 2 D 4 3 2 2

Bb MIN. D 2 2 3 4 A 2 2 4 4 4 2 2 D 4 3 2 2

B MIN. D 2 2 3 4 A 2 2 4 4 4 2 2 D 4 3 2 2

Harmonic minor scales in sixths, bottom voice

D 1 1 2 3 A 1 1 3 3 3 1 1 3 D 2 1 1
 C MIN.

D 1 1 2 3 A 1 1 3 3 3 1 1 3 D 2 1 1
 C# MIN.

D 1 1 2 3 A 1 1 3 3 3 1 1 3 D 2 1 1
 D MIN.

D 1 1 2 3 A 1 1 3 3 3 1 1 3 D 2 1 1
 Eb MIN.

D 1 1 2 3 A 1 1 3 3 3 1 1 3 D 2 1 1
 E MIN.

G 1 1 2 3 D 1 1 3 3 3 1 1 3 G 2 1 1
 F MIN.

G 1 1 2 3 D 1 1 3 3 3 1 1 3 G 2 1 1
 F# MIN.

G 1 1 2 3 D 1 1 3 3 3 1 1 3 G 2 1 1
 G MIN.

G 1 1 2 3 D 1 1 3 3 3 1 1 3 G 2 1 1
 Ab MIN.

G 1 1 2 3 D 1 1 3 3 3 1 1 3 G 2 1 1
 A MIN.

G 1 1 2 3 D 1 1 3 3 3 1 1 3 G 2 1 1
 Bb MIN.

G 1 1 2 3 D 1 1 3 3 3 1 1 3 G 2 1 1
 B MIN.

Harmonic minor scales in broken sixths

The image displays six sets of musical notation, each representing a different harmonic minor scale. Each set consists of two staves: the upper staff shows the ascending scale and the lower staff shows the descending scale. The scales are: C MIN., C# MIN., D MIN., Eb MIN., E MIN., and F MIN. The notation includes treble clefs, key signatures (one flat for C, C#, and F; two flats for D and Eb), and notes with stems. Fingerings are indicated by numbers 1-4 above or below notes. Slurs connect notes in each measure. The scales are written in broken sixths, with the upper voice moving in sixths above the lower voice.

Harmonic minor scales in broken sixths, cont.

The image displays six sets of musical notation for harmonic minor scales in broken sixths, continuing from the previous page. Each set consists of two staves of music. The scales are: F# MIN., G MIN., Ab MIN., A MIN., Bb MIN., and B MIN. Each scale is written in a treble clef with a key signature of one sharp (F#) or one flat (Bb). The notation shows the scale in both ascending and descending directions, with fingering numbers (1-4) indicated above or below the notes. The scales are broken sixths, meaning the intervals between notes are sixths. The scales are: F# MIN. (F#4, G4, A4, B4, C5, D5, E5, F#5), G MIN. (G4, A4, B4, C5, D5, E5, F5, G5), Ab MIN. (Ab4, Bb4, C5, Db5, Eb5, F5, G5, Ab5), A MIN. (A4, B4, C5, D5, E5, F5, G5, A5), Bb MIN. (Bb4, C5, Db5, Eb5, F5, G5, Ab5, Bb5), and B MIN. (B4, C5, D5, E5, F5, G5, A5, B5).

Harmonic minor scales in sixths

The image displays twelve musical staves, each representing a different harmonic minor scale. Each staff is labeled on the left with its key signature and the word 'MIN.' (e.g., C MIN., C# MIN., D MIN., Eb MIN., E MIN., F MIN., F# MIN., G MIN., Ab MIN., A MIN., Bb MIN., B MIN.). The scales are written in treble clef with a key signature of one flat. The notes are beamed in pairs (sixths) and include natural and accidental signs. Above each note, a number indicates the recommended fingering (1-4). The scales are: C MIN., C# MIN., D MIN., Eb MIN., E MIN., F MIN., F# MIN., G MIN., Ab MIN., A MIN., Bb MIN., and B MIN. Each staff concludes with a double bar line and a fermata over the final note.

Major scales in harmonics (Preparation for octaves)

This musical score consists of twelve staves, each representing a major scale in harmonics. The scales are: C MAJ., C# MAJ., D MAJ., Eb MAJ., E MAJ., F MAJ., F# MAJ., G MAJ., Ab MAJ., A MAJ., Bb MAJ., and B MAJ. Each staff begins with a treble clef and a key signature signature. The notes are written as pairs of eighth notes, representing double stops. The scales are arranged in ascending order from C major at the top to B major at the bottom. The notation includes sharp and flat accidentals for the appropriate notes in each scale.

Harmonic minor scales in harmonics (Preparation for octaves)

The image displays twelve musical staves, each representing a different harmonic minor scale. Each staff begins with a label: C MIN., C# MIN., D MIN., Eb MIN., E MIN., F MIN., F# MIN., G MIN., Ab MIN., A MIN., Bb MIN., and B MIN. The scales are written in treble clef with a 2/4 time signature. The notation uses double stops (two notes played simultaneously) to represent the scale's intervals. The scales are: C minor (C, Bb, Ab, G, F, E, D, C), C# minor (C#, B, Ab, G, F, E, D, C#), D minor (D, C, Bb, Ab, G, F, E, D), Eb minor (Eb, D, C, Bb, Ab, G, F, Eb), E minor (E, D, C, Bb, Ab, G, F, E), F minor (F, E, D, C, Bb, Ab, G, F), F# minor (F#, E, D, C, Bb, Ab, G, F#), G minor (G, F, E, D, C, Bb, Ab, G), Ab minor (Ab, G, F, E, D, C, Bb, Ab), A minor (A, G, F, E, D, C, Bb, A), Bb minor (Bb, Ab, G, F, E, D, C, Bb), and B minor (B, Ab, G, F, E, D, C, B). Each staff concludes with a double bar line.