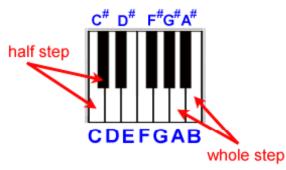
POTTER VOICE STUDIO INTERVALS, SCALES, KEY SIGNATURES

INTERVALS

An interval is the distance between two notes. Intervals are always counted from the lower note to the higher one, with the lower note being counted as one. Intervals come in different qualities and size. If the notes are sounded successively, it is a *melodic interval*. If sounded simultaneously, then it is a *harmonic interval*.

The smallest interval used in Western music is the half step. A visual representation of a half step would be the distance between a consecutive white and black note on the piano. There are two exceptions to this rule, as two natural half steps occur between the notes E and F, and B and C.

A whole step is the distance between two consecutive white or black keys. It is made up of two half steps.

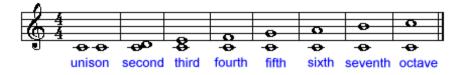


Qualities and Size

Intervals can be described as Major (M), Minor (m), Perfect (P), Augmented (A), and Diminished (d).

Intervals come in various sizes: Unisons, Seconds, Thirds, Fourths, Fifths, Sixths, and Sevenths.

2nds, 3rds, 6ths, and 7ths can be found as *Major* and *Minor*. Unisons, 4ths, 5ths, and Octaves are *Perfect*.



When a major interval is raised by a half step, it becomes augmented. When a major interval is lowered by a half step, it becomes minor. When a major interval is lowered by two half steps, it becomes diminished.

When a minor interval is raised by a half step, it becomes major. When a minor interval is raised by two half steps, it becomes augmented. When a minor interval is lowered by a half step, it becomes diminished.

When a perfect interval is raised by a half step, it becomes augmented. When a perfect interval is lowered by a half step, it becomes diminished.

Inversions of Intervals

Intervals can be inverted, which basically means you turn them upside down. The lower note is raised up an octave so that the top note/bottom note relationship is reversed. The chart below shows the inversions of intervals.

Qualities

Major becomes Minor
Minor becomes Major
Perfect remains Perfect
Augmented becomes Diminished
Diminished becomes Augmented

Interval Identification

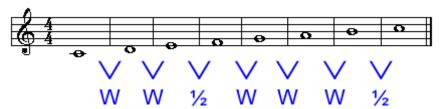
It is very important to be able to hear and identify intervals. Here is a list of familiar songs that will help you to identify the intervals.

m2	Stormy Weather
M2	Happy Birthday
m3	The Impossible Dream; So Long, Farewell from The Sound of Music
M3	Halls of Montezuma
P4	Here comes the bride
A4 ("tri-tone")	Maria from West Side Story
P5	Star Wars; Twinkle, Twinkle, Little Star
M6	NBC theme music
m7	Somewhere from West Side Story
M7	Bali Hai from South Pacific
Octave	Over the rainbow

SCALES

Major Scale

A **major scale** is a series of 8 consecutive notes that use the following pattern of half and whole steps:

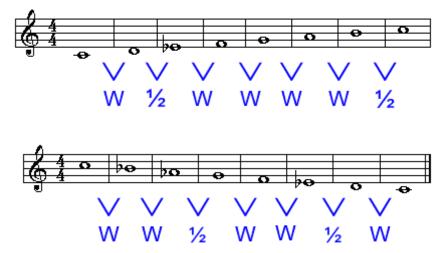


Minor Scales: Natural, Melodic, and Harmonic

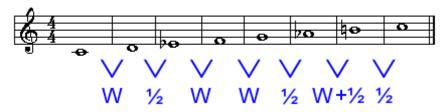
Natural Minor scales use the following pattern of half and whole steps:



Melodic Minor scales ascend and use the following pattern of half and whole steps. When descending, they do so in the natural minor form.



Harmonic Minor scales use the following pattern of half and whole steps:



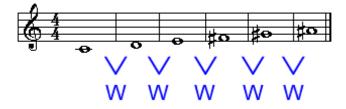
PVS INTERVALS, SCALES, KEY SIGNATURES

Other Useful Scales

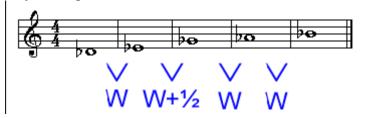
Chromatic Scales are made up entirely of half steps. When ascending, the scale uses sharps, when descending it uses flats.



Whole Tone Scales differ from the other scales because it only has 6 tones. It uses the following pattern:



A **Pentatonic Scale** is a five-tone scale, which has its beginning in antiquity. There are traces of this scale in Oriental and American Indian music. This scale does not have a leading tone, which gives the scale it's unique sound. The scale has two forms. The first one uses the group of two black keys followed by three black keys. The pattern is as follows:



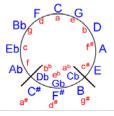
The second one used the group of three black keys followed by two black keys. The pattern is as follows:



KEY SIGNATURES

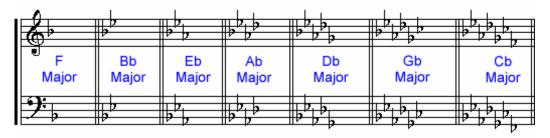
There are 15 major and 15 minor key signatures. The sharps or flats at the beginning of the staff indicate the main tone (diatonic) to which other tones are related.

[Db-C#, Gb-F#, Cb-B, are enharmonic keys, meaning that they are written differently, but sound the same.]



There are 15 major and 15 minor **key signatures**. The sharps or flats at the beginning of the staff indicate the main tone (diatonic) to which other tones are related.

	H	H.	+ #	H.tt.		H.t. u	Htt. H
6					║ [┲] ╠ [┲] ╠		<u></u> <u></u>
<u> </u>				_			
Major	G Major	D Major	A Major	E Major	В Major	F# Major	C# Major
6 1 :		#		ii.ii	╠╬╓╬╈	┟╋╖╄╈╺╅	
1	17	17				<u>╢╹╫╹╄</u> ╟╸	╢ [┍] ╪╴╪ _╋ ╄╪╴┤



	H	H.	H #	H tt.	H tt.	Htter	H tt. 14
						<u><u></u>∦[₽]₽[₽]₽₽</u>	<u><u></u>₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽</u>
						<u> · · · </u> +₹	
a	e	b	f#	c#	g#	d#	a#
minor	minor	minor	minor	minor	minor	minor	minor
•¥:		#	<u> </u> ‡_‡	<u>i</u> tutu	╠╬╓╬╬	<mark>∥ ≴[‡]# tt</mark>	║╪╻╪╍╶┟
	14				╟╹╟╹┡	║╹╫╵╄ _┪ ┿	╢ [┲] ╈ [┲] ╋╋╋╸╢

&	₽Þ	llh'	₽₽₽			
d minor	g minor	c minor	f minor	b ^b minor	e ^b minor	a ^b minor
?₀	P	P ,				