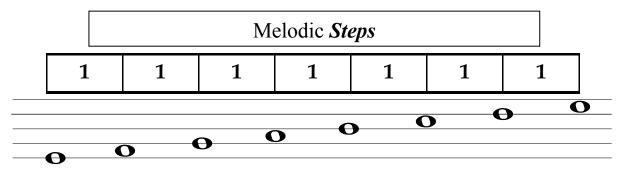
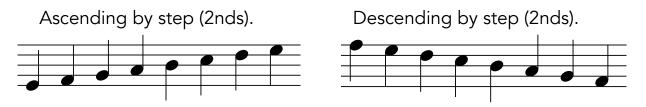
### Elements 2 – Pitch and Intervals

Each change of pitch from line to space or from a space to a line is one melodic (or scale) step.



The distance between notes is called an *interval*. The interval between each step is called a second (2nd).



If notes skip a step, they are called an interval of a third (3rd).







#### Steps and Intervals

	Eac	h change (	of pitch fro	om line to	space or sp	bace to line	e is <b>one ste</b>	<b>p</b> .
					•	0	0	0
	-00	- <b>0</b> 0	8		- <del>0</del>	<b>– –</b>		<b>—0</b>
Number of steps	0	1	2	3	4	5	6	7
						<b>—</b>	0	
			0		0	<b>U</b>		
	00	- <b>0</b> 0	Ŏ	0	0	0	0	0
			e reference or down b		st pitch as	One, then		
					0	0	<b>O</b>	0
	-00	- <del>0</del> 0	8			<b>– –</b>	- 0	
	00	0-	0	0	0	0	0	
Intervals	Unison	2nd	3rd	4th	5th	6th	7th	Octave
							- 0	
		-	0	- <b>O</b>	0	0		
	00	- <del>0</del> 0	- <del>V</del>	0	0	0	0	0

Things to notice.

The numeric interval value between pitches is one more than the number of steps from one pitch to another.

The intervals between notes that are both on a line or space are odd numbers. The intervals between notes in which one is on a line and the other is on a space are even numbers.

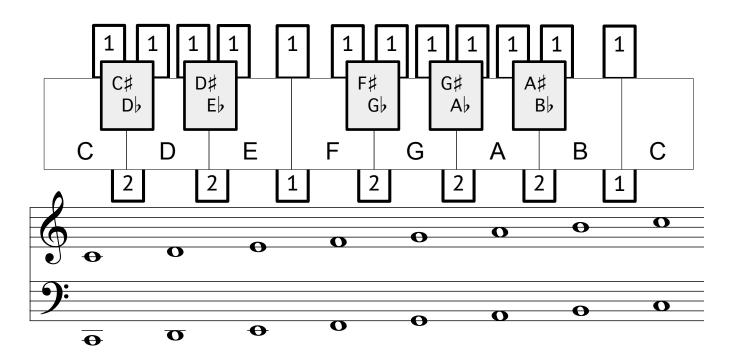
		0	0
00	8	•	<b>O</b>
Unison	3rd	5th	7th
		0	0
00	8	0	0

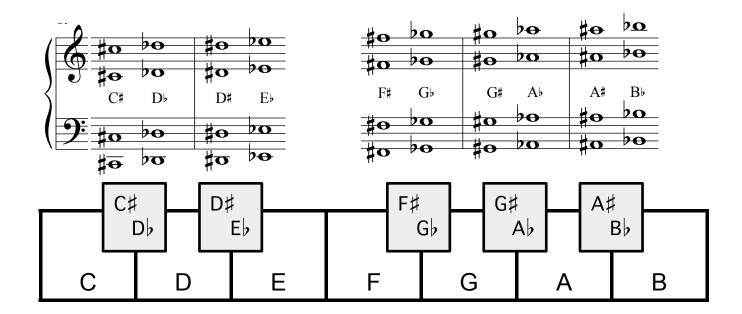
0 Ο Ο **-0**0 Θ Ο Ο 6th Octave 2nd 4th θ 0 θ **\_\_\_\_** Ō Ο Ο

## Chromatic Steps

Earlier, we explored melodic steps and intervals. There is another type of interval used to describe the distance between notes. This type of interval is called a *chromatic* interval.

The distance between each successive key on the piano is **one chromatic step**.





Inter	vals: Unison to T	ritone	Inversions: Tritone to Octave			
Diatonic Intervals	Chromatic Intervals	Chromatic Steps	Chromatic Steps	Chromatic Intervals	Diatonic Intervals	
Unison	Unison	0	12	Octave <i>8va</i>	Octave	
2nd	Minor 2nd (m2) Semitone Half-step	1	11	Major 7th (M7)	7th	
	Major 2nd (M2) Whole step	2	10	Minor 7th (m7)		
3rd	Minor 3rd (m3)	3	9	Major 6th (M6)	6th	
	Major 3rd (M3)	4	8	Minor 6th (m6)		
4th	Perfect 4th (P4)	5	7	Perfect 5th (P5)	5th	
	Augmented 4th (aug4)	6	6	Diminished 5th (dim5)		

#### Steps and Intervals

Notice:

Unisons, 4ths, and 5th are primarily perfect.

Unisons are almost always perfect. They are very rarely diminished or augmented. 4ths are sometimes augmented and very rarely diminished.

5ths are sometimes diminished and very rarely augmented.

The augmented 4th is enharmonically equivalent to the diminished 5th. The interval is called a *tritone*.

2nd, 3rds, 6ths, and 7ths are mostly either major or minor.

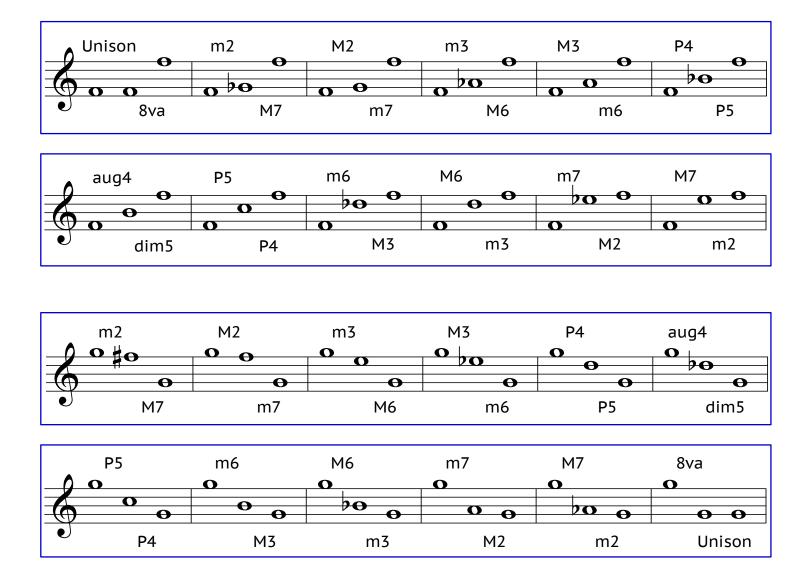
They are sometimes diminished or augmented.

In some non-Western music they can be neutral: somewhere between minor and major.

The inversion of a 2nd is a 7th. The inversion of a 3rd is a 6th The inversion of a 4th is a 5th.

The inversion of a minor interval is major. The inversion of a perfect interval is perfect. The inversion of an augmented interval is diminished.

# Intervals and Inversions



Below are notes with intervals and their inversions.