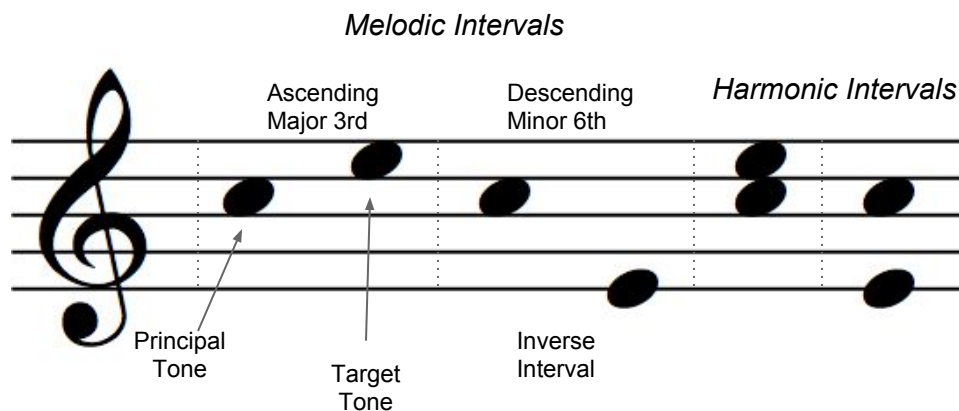


# Intervals

The distance between two notes is called an **interval**. The starting pitch in an interval is called the **principal tone** and the ending pitch of an interval is the **target tone**. Intervals can either ascend ↑ or descend ↓ away from the principal tone. An **inverse interval** is created by going in the opposite direction of the principal tone and resulting in the same target tone. Intervals can be **harmonic** (played at the same time), or **melodic** (played separately).



The distance between a pitch and another twice its frequency is an octave. The octave can be divided into 12 equal parts called half steps. A **half step** is the smallest interval in western music. When two half steps are added together, they create a whole step. The following chart contains all of the intervals in an octave that are created by adding half steps together. An interval has two parts to its name; the quality and the number. The quality can be either major, minor, diminished, augmented, or perfect.

<u>Half Steps</u>	<u>Ascending Interval Quality and Number</u>	<u>Ascending Example</u>	<u>Descending Example</u>	<u>Inverse Interval Quality and Number</u>
0	Perfect Prime	C and C	C and C	Perfect Octave
1	Minor 2nd	C and Db	C and B	Major 7th
2	Major 2nd	C and D	C and Bb	Minor 7th
3	Minor 3rd	C and Eb	C and A	Major 6th
4	Major 3rd	C and E	C and Ab	Minor 6th
5	Perfect 4th	C and F	C and G	Perfect 5th
6	Tritone (augmented 4th, Diminished 5th)	C and F#/Gb	C and F#/Gb	Tritone (augmented 4th, Diminished 5th)
7	Perfect 5th	C and G	C and F	Perfect 4th
8	Minor 6th	C and Ab	C and E	Major 3rd
9	Major 6th	C and A	C and Eb	Minor 3rd
10	Minor 7th	C and Bb	C and D	Major 2nd
11	Major 7th	C and B	C and Db	Minor 2nd
12	Perfect Octave	C and C	C and C	Perfect Prime