

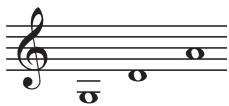






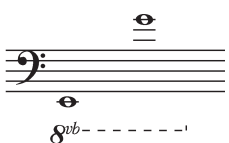





Instrument Ranges

When you are composing and arranging for specific instruments, you need to know the range of each instrument, so you don't write notes that are unplayable. Use the following charts to determine each instrument's range as it sounds and as it is written.




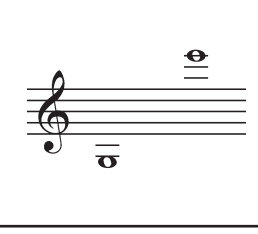
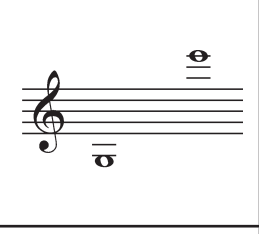
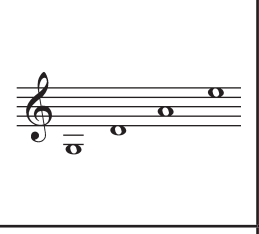
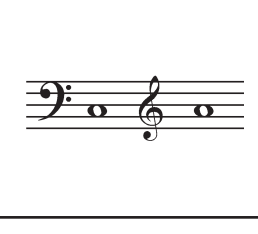

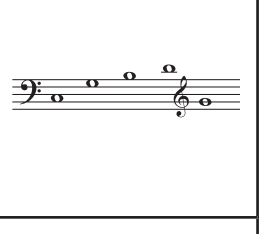
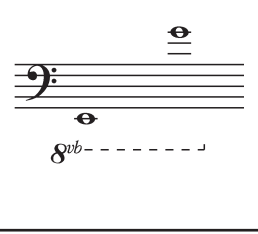
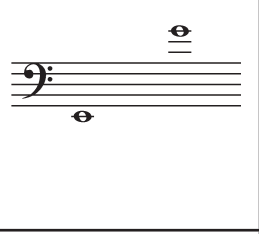
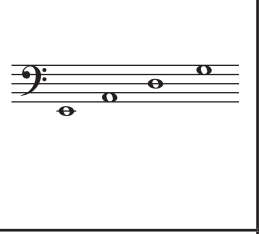


String Instruments (Bowed)

Instrument	Range (as Sounds)	Range (as Written)	Open Strings	Transposition
Violin				Sounds as written
Viola				Sounds as written
Cello				Sounds as written
Double bass (string bass)				Sounds as written

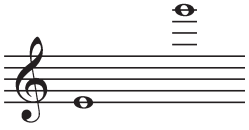





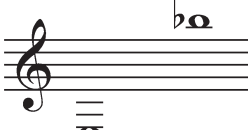
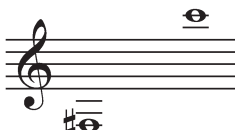


 **NOTE**

In music notation, *8va* indicates the note is played an octave above what is written, and *8vb* means the note is played an octave below what is written. If you see a *16va*, that means to play the note two octaves above what is written.

String Instruments (Plucked or Strummed)

Instrument	Range (as Sounds)	Range (as Written)	Open Strings	Transposition
Guitar (acoustic and electric)				Write one octave above concert pitch
Mandolin				Sounds as written
Banjo				Write one octave above concert pitch
Electric bass				Write one octave above concert pitch
Harp			N/A	Sounds as written

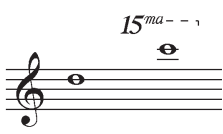



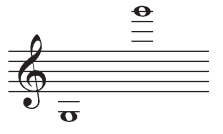


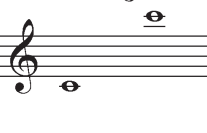


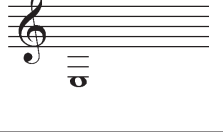
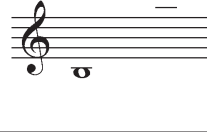
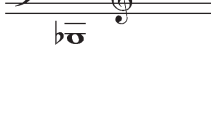
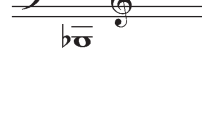
Brass Instruments

Instrument	Range (as Sounds)	Range (as Written)	Transposition
Piccolo trumpet (B \flat)			Write a minor seventh below concert pitch
Trumpet (B \flat)			Write a major second above concert pitch
Cornet			Write a major second above concert pitch
Flugelhorn			Write a major second above concert pitch
French horn			Write a perfect fifth above concert pitch (on treble clef)

Instrument Ranges

Instrument	Range (as Sounds)	Range (as Written)	Transposition
Baritone (concert)			Sounds as written on bass clef; on treble clef, write a major ninth above concert pitch
Trombone			Sounds as written
Bass trombone			Sounds as written
Tuba			Sounds as written

Woodwind Instruments

Instrument	Range (as Sounds)	Range (as Written)	Transposition
Piccolo			Write one octave below concert pitch
Flute			Sounds as written
Alto flute			Write a perfect fourth above concert pitch
Bass flute			Write one octave above concert pitch
Oboe			Sounds as written
English horn			Write a perfect fifth above concert pitch
Bassoon			Sounds as written


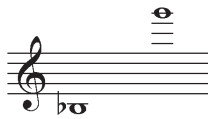

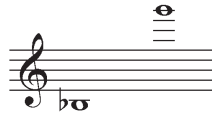

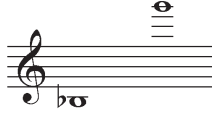
Instrument Ranges

Instrument	Range (as Sounds)	Range (as Written)	Transposition
Contrabassoon			Write one octave above concert pitch
E \flat clarinet			Write a minor third below concert pitch
B \flat clarinet			Write a major second above concert pitch
A clarinet			Write a minor third above concert pitch
Alto clarinet			Write a major sixth above concert pitch
Bass clarinet			Write a major ninth above concert pitch (on treble clef)
Soprano saxophone			Write a major second above concert pitch





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Instrument Ranges




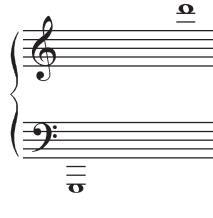

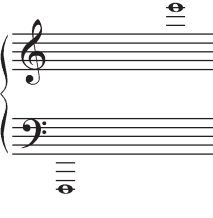




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Instrument	Range (as Sounds)	Range (as Written)	Transposition
Alto saxophone			Write a major sixth above concert pitch (on treble clef)
Tenor saxophone			Write a major ninth above concert pitch (on treble clef)
Baritone saxophone			Write an octave and a major sixth above concert pitch (on treble clef)

Keyboard Instruments

Instrument	Range (as Sounds)	Range (as Written)	Transposition
Piano (acoustic and electric)			Sounds as written
Organ			Sounds as written

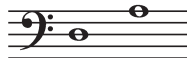
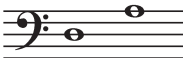




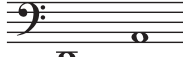
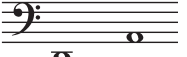
Instrument Ranges

Instrument	Range (as Sounds)	Range (as Written)	Transposition
Harpichord			Sounds as written
Clavichord			Sounds as written
Clavinet			Sounds as written
Celesta			Write one octave lower than concert pitch
Accordion			Sounds as written

Pitched Percussion Instruments

Instrument	Range (as Sounds)	Range (as Written)	Transposition
Glockenspiel (orchestra bells)			Write two octaves below concert pitch
Xylophone			Write one octave below concert pitch
Marimba			Sounds as written
Vibraphone (vibes)			Sounds as written
Chimes (tubular bells)			Sounds as written
Timpani (20 inches)			Sounds as written

Instrument Ranges

Instrument	Range (as Sounds)	Range (as Written)	Transposition
Timpani (23 inches)			Sounds as written
Timpani (25 or 26 inches)			Sounds as written
Timpani (28 or 29 inches)			Sounds as written
Timpani (30 or 32 inches)			Sounds as written

