

Keyboard Windows

Keyboard windows contain an arbitrary number of marimba style keys. Each Key may be presented in a variety of representation styles:

Pitch

Cents Relative to a Reference Key

Cents Relative to the Previous Key

Hertz

Ratio Relative to a Reference Key

Ratio Relative to the Previous Key

Interval from Reference Key

Interval from Previous Key

MIDI Key Number

User Label (arbitrary names, i.e Do, Re, Mi)

The desired representation style is chosen with the upper pop-up list in the **Tuning Panel (Tuner...** in the **Tools** menu. See *Tuning a Keyboard*). The selected Key's value in the chosen representation appears in the display above this pop-up list.

Each window has its own **Reference Key** (indicated with an **R**) from which base relative tunings are derived. The Reference Key is changed by selecting a Key and choosing the **Reference** button in the **Tuning Panel**. Keys are moved

within or between keyboards with standard ***cut, copy,*** and ***paste*** operations. Windows may be **resized** with the resize bar, and **Key** sizes may be changed by resizing their window with the **Command-Key** key pressed.

Keys are played by clicking with the mouse. The Key's note is sounded when the mouse button is pressed and ended when the mouse button is released. The **Command-Key** may be used as a sustain pedal, allowing Keys to ring after the mouse button is released.

There is also a **Sustain Pedal** button in the **Tuning Panel** for holding sustain on.

Representation Style Formats

Pitch pitchLetter[sharp or flat]octave.

For example:

ef4 E flat above middle C

gs3 Gsharp below middle C

bs8 B sharp five octaves above middle C

Hertz and Cents are represented in decimal numbers.

Cents are rounded to the nearest integer.

Ratios Numerator/Denominator

For example,
 $\frac{3}{2}$ Just perfect fifth
 $\frac{5}{4}$ Just major 3rd

Interval

uni unison

m2 minor second

M2 Major second

m3 minor third

M3 Major third

P4 Perfect fourth

aug4 augmented fourth

P5	Perfect fifth
m6	minor sixth
M6	Major sixth
m7	minor seventh
M7	Major seventh
oct	octave
m9	minor ninth
...	

MIDI Key	MIDI KeyNumber assignment Same format as Pitch.
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User Label	An arbitrary label.
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For example,

Do, Re, Mi, Fa

Ding, Dong, Deng, Dung, Dang