

# Music Calculator Widget (V1.5) - Overview

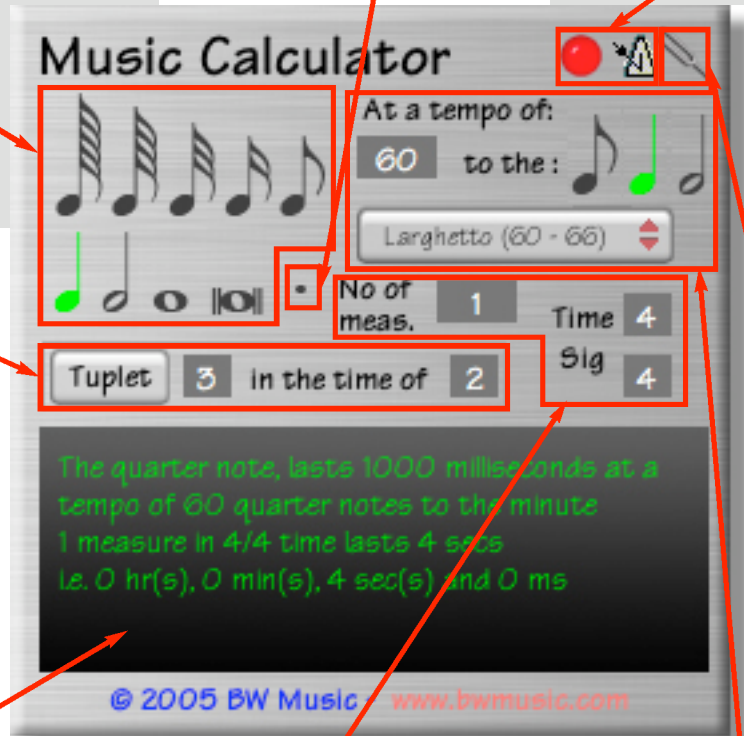
In this part, you can select which note you would like to know the duration of (at the tempo selected in the "Tempo" section). The length is (obviously?) affected by whether or not the note is dotted and whether or not it is in a tuplet and of course, what sort of tuplet it is in.

The "dot" button switches the dot on or off, and the note icon and duration of the note will change accordingly.

This is the metronome on/off section. Click on either icon to start an audio (M) or visual (L) metronome beating at the chosen tempo. The accented down-beat will change place according to the numerator

of the time signature. Composite measures are not yet catered for. For the moment then, you'll have to beat 12/8 in 4/4, 12/4 or in 3/4 time at 4 times the tempo :-)

In the tuplet section, you can enter any variant you can possibly imagine (musical or not!), and the "OFF/ON" switch applies the tuplet to the duration or not.



A click on the tuning fork icon will turn on a pulsed A 440 Hz tone. This is a sine wave by default (4 seconds on, 4 seconds off), but can be changed to an oboe (3 seconds on, 3 seconds off), in the preferences.

The results of your settings are displayed on this "display screen".

This section lets you set the number of measures (up to 999) for which you wish to know the duration, and change the time signature. Logically, this duration is affected by the time signature (number of beats to the bar), as well as the tempo, and will vary accordingly.

This is where you set the tempo. You can either choose a "standard" musical tempo by name, or type a precise tempo in the text box. The two are interactive. Tempo is usually given to the quarter note (which is the calculator's default), but can occasionally be given to the eighth note or to the half note, and you can choose these as you wish. N.B. The "standard" tempi are to the quarter note, and will automatically revert to this if you choose a tempo from the pop-up list. For the same reason, if you chose a tempo by the eighth or half note, it will be translated to the correct written form (indicating tempo to the quarter note).

**N.B.** To make entries in any of the number fields, select the field you want by clicking in it, then type in the required value and press "Enter" or "Return" to validate.

There are keyboard shortcuts for everything useful! Here therefore is a summary of them:

- Right & Left cursor keys    Cycles forwards and backwards through the duration notes.
- Up & down cursor keys    Cycles up and down through the "Standard" tempo list.
- Plus & minus keys    Increment and decrement the time signature numerator (1 - 12) thus changing the metronome downbeat.
- The 'M' key    Cycles the metronome on and off.
- The 'L' key    cycles the metronome light on and off.
- The "A" key    turns the tuning fork on and off.
- The "T" key    Cycles the tuplet on and off.
- The "D" key    Cycles the dot on and off.
- The "H" key    selects tempo to the half note.
- The "Q" key    selects tempo to the quarter note.
- The "E" key    selects tempo to the eighth note.

Certain of these (and the equivalent mouse clicks) will stop the metronome. This is NOT a bug, but a necessary feature :-)

**K.B.** (as in "Known Bugs" :-)) If the keyboard shortcuts do not react the first time you open the Widget, click anywhere in it's background. You only have to do this the very first time. If you are in "Developer Mode" and you use "Command R" to reload the Widget, the visual metronome disappears. You will need to close the Widget and reload it from the standard Widget Manager. These appear to be Widget bugs and you will probably come across them in other Widgets.