

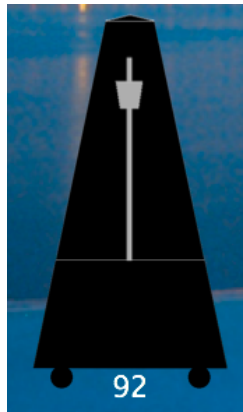
Beat Meter

Version 2.0 30 March 2013

Summary

Beat Meter can be used to measure the beat (MM) rate of a piece of music. It can also be used as a simple metronome and tuning device.

Beat Meter Mode



To measure the beat rate of a piece of music, the user should click on the lower area in time with the music.

The widget calculates a running average over a number of samples and displays the beat rate below the widget. The text turns from white to green when the average is being taken over the number of samples specified in the widget's preferences. The displayed number will become quite stable, if a regular click rate is achieved.

Metronome Mode

The widget can also act as a simple metronome. Click on the upper area to start or stop the metronome. The metronome beat rate (MM) is shown in yellow text below the widget and can be set in the widget's preferences.

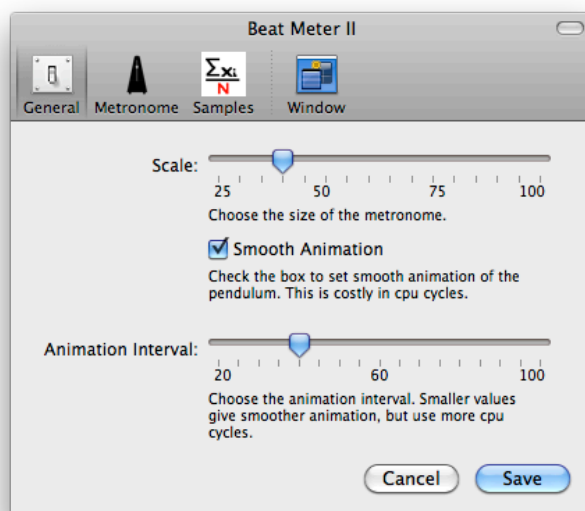
Tuning Mode

Clicking on the bob of the pendulum produces a 440Hz tone (A440) for a period of five seconds.

Preferences

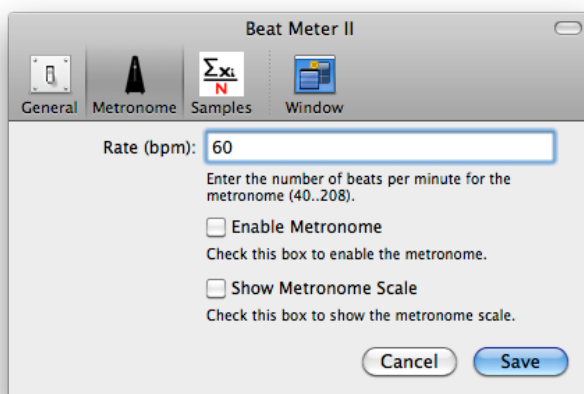
Beat Meter has preference panes for its Metronome and Beat Meter modes.

General



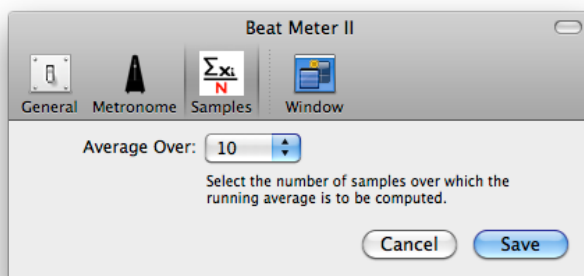
The size of the widget can be set in this pane. There are also controls to set the animation characteristics.

Metronome



The beat rate (MM) of the metronome can be set from 40 to 208 beats per minute.

Samples (Beat Meter)



The Beat Meter can be set to average over 5, 10, 15 or 20 samples

Dual Mode

Beat Meter and Metronome modes can be used concurrently.

Clicking the lower area in time with the metronome will measure the metronome rate. This should, of course, be same as the metronome rate that has been set.

Metronome Sound

The sound produced by the metronome is that of a real Metronome de Mälzel.

Version History

- 0.6 - initial release - no frills version.
- 0.7 - added 440Hz tuning tone.
- 0.8 - added option to copy a measured beat rate to the metronome.
- 2.0 - added metronome scale and ability to set the beat rate by dragging the pendulum bob up or down.
- added smooth animation of the pendulum.

License

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Widget Concept, Coding and Documentation

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