

Introduction

Thank you for your interest in Guitar Tuner !

Guitar Tuner has been designed from the ground up to provide a simple interface for tuning your guitar. Guitar Tuner uses an extremely sensitive algorithm for detecting the pitch of your guitar. Guitar is easy to use, and we've made it just 4U. We say that because we would like to hear your thoughts on the tuner such as how you use it, how well it works for you, questions you may have, and even what you think can be changed or added as improvements. [Send us a message anytime!](#)

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Changing your sound device

You can see the sound device dropdown on the main screen when you enter the application.



Sound Device

The sound device is the device that the tuner will use to listen to the instrument. If you have more than one sound card, for example, you can use this dropdown to pick which sound card you wish to use. The tuner may not work on some settings that are displayed in this dropdown.

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Changing your sound input

The dropdown for changing the sound input is on the main screen when you enter the application.

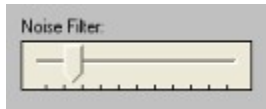


Sound Input

The sound input is the device that the tuner listens to when displaying information on the screen. Typically the input will be the microphone. You can also use other inputs that may be represented by the term "stereo mix". If you have this option then you can typically use this option to listen to the line-in port on your computer.

The Noise Filter

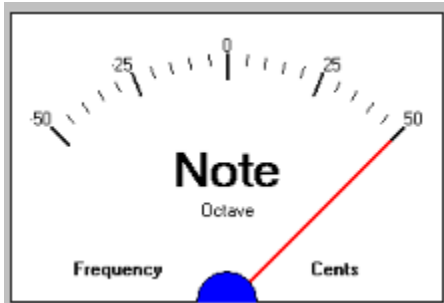
The noise filter is on the main screen when you open the application.



The purpose behind the noise filter is to set a sound level threshold where sound will not be detected unless it is above this threshold. This is useful for preventing Guitar Tuner from responding to background noise while you are tuning your guitar. Turn the noise filter down if you want the tuner to be more sensitive, turn it up if you want it to be less sensitive.

The Tuning Meter

You can view the tuning meter on the main screen when you open the application.



The tuning meter is an extremely sensitive tool for tuning your instrument.

Note

When the tuner senses a note being played it will display the note in the center of the tuning meter (where it reads "note" in the picture above). The note displayed will be one of the following: C, C#, D, D#, E, F, F#, G, G#, A, A#, or B. The note displayed follows the chromatic scale using equal temperament tuning. Please see [Changing the settings](#) if you wish to read a description of how equal temperament tuning works.

Octave

When a note is displayed, the octave is also displayed. An octave starts at C and goes to A#. "Middle C" is in octave 4. The C above "Middle C" is octave 5, and the C below "Middle C" is octave 3.

Cents

The scale on the meter is read in cents (-50 cents to 50 cents). Cents refers to a scale that divides the sounds between notes into 100 equal divisions. For example, the number of cents between "Middle C" and C# (one note above "Middle C") is exactly 100 cents. The number of cents between C# and D is exactly 100 cents. With the Tuning Meter, the scale shows 50 cents below the note and 50 cents above the note. So, for example, if you are at 50 cents you are 1/2 way between the note displayed on the meter and the next highest note. If you are at zero cents, then your instrument is in tune.

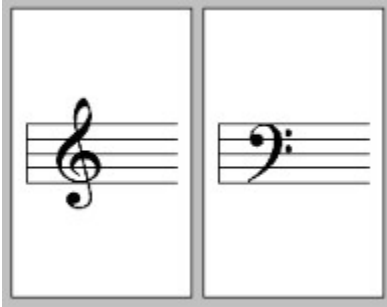
Frequency

Frequency is the actual frequency being detected by the tuner. This is displayed in Hertz (cycles per second).

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The Treble and Bass Clef

You can view the treble and bass clefs on the main screen when you enter the application.



The treble and bass clefs are very useful. Notes played by your instrument or voice are plotted on the score in real-time. The score is a piano score. If you are playing an instrument that does not use a piano score (such as a B Flat Trumpet or an A Clarinet), then the score needs to be transposed. You can do this by selecting the appropriate value in the "Transpose" dropdown.

For those who are familiar or unfamiliar with music, seeing the note "played" on a musical score is helpful so you can form mental connections between the instrument being played and written music. If you haven't already noticed, you can also sing into the instrument tuner and see how your voice maps to the musical score. This is an interesting feature you may want to use to learn to improve your sight-singing capabilities.

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The Piano Keyboard

The piano keyboard is visible on the main screen when you enter the application.



The piano keyboard is very useful. Notes played by your instrument or voice are plotted on the keyboard with a red dot.

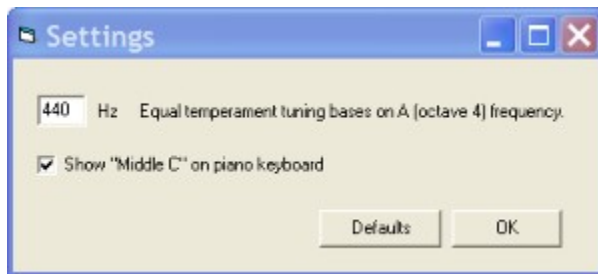
For those who are familiar or unfamiliar with the piano keyboard, seeing the note "played" on the piano keyboard is helpful so you can form mental connections between the instrument being played and the piano keyboard. If you haven't already noticed, you can also sing into the instrument tuner and see how your voice maps to the piano keyboard. This is an interesting feature you may want to use to learn to improve your sight-singing capabilities.

"Middle C" has a blue square on it. "Middle C" is a reference note used by piano or keyboard players to reference the octave where they are at. "Middle C" maps to C octave 4 (typically 261.63Hz depending on the tuning that is set. Please see the Settings Dialog to change the tuning).

If "Middle C" is not marked on your keyboard, you can mark "Middle C" by going to [Tuner, Setting](#).

Changing the Settings

The settings dialog is accessed by going to the Tuner, Settings menu option.



EZTuner4U uses equal temperament tuning. This means that every octave is divided into 12 equal parts. This is the same tuning as on a piano where if you start at "middle C" then 12 notes above "middle C" is the note "C" again. Those same 12 notes (C, C#, D, D#, E, F, F#, G, G#, A, A#, B) repeat all the way up and down the keyboard.

Equal Temperament Tuning Based on A (octave 4) Frequency

Typically, equal temperament tuning is based on the frequency used for A octave 4. A typical tuning frequency for A octave 4 is 440Hz, although sometimes instruments are tuned to lower or to higher frequencies (438Hz or 442Hz for example) to give a more bass or more treble feel to the sound.

Show "Middle C" on piano keyboard

Check this box to put a mark on "middle C" on the piano keyboard. This is useful for determining an orientation on the keyboard for the note being played.

Purchasing Guitar Tuner

Guitar Tuner is a valuable tool for tuning your guitars and comes with a 100% satisfaction guarantee. When you purchase Guitar Tuner, you will get free software updates for one year when new releases are made. Additionally, you will receive free email technical support.

You may purchase Guitar Tuner by going to <http://www.thesoftware4u.com>.

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The Transpose Dropdown

You can view the transpose dropdown on the main screen when you enter the application.



The purpose of the transpose dropdown is to transpose the note that your musical instrument is playing to display correctly on the tuning meter and musical score. For example, when a Bb Clarinet plays a "C", the actual note that is sounding is a Bb (on an equal tempered scale). By choosing the Bb Clarinet on the transpose dropdown, the note will be displayed on the tuning meter and musical score as a "C" instead of a Bb.

Note: When you transpose, the piano keyboard is not transposed. With the example of the Bb Clarinet above, the piano would play a Bb and the tuning meter and musical score would show a "C".

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Using Guitar Tuner

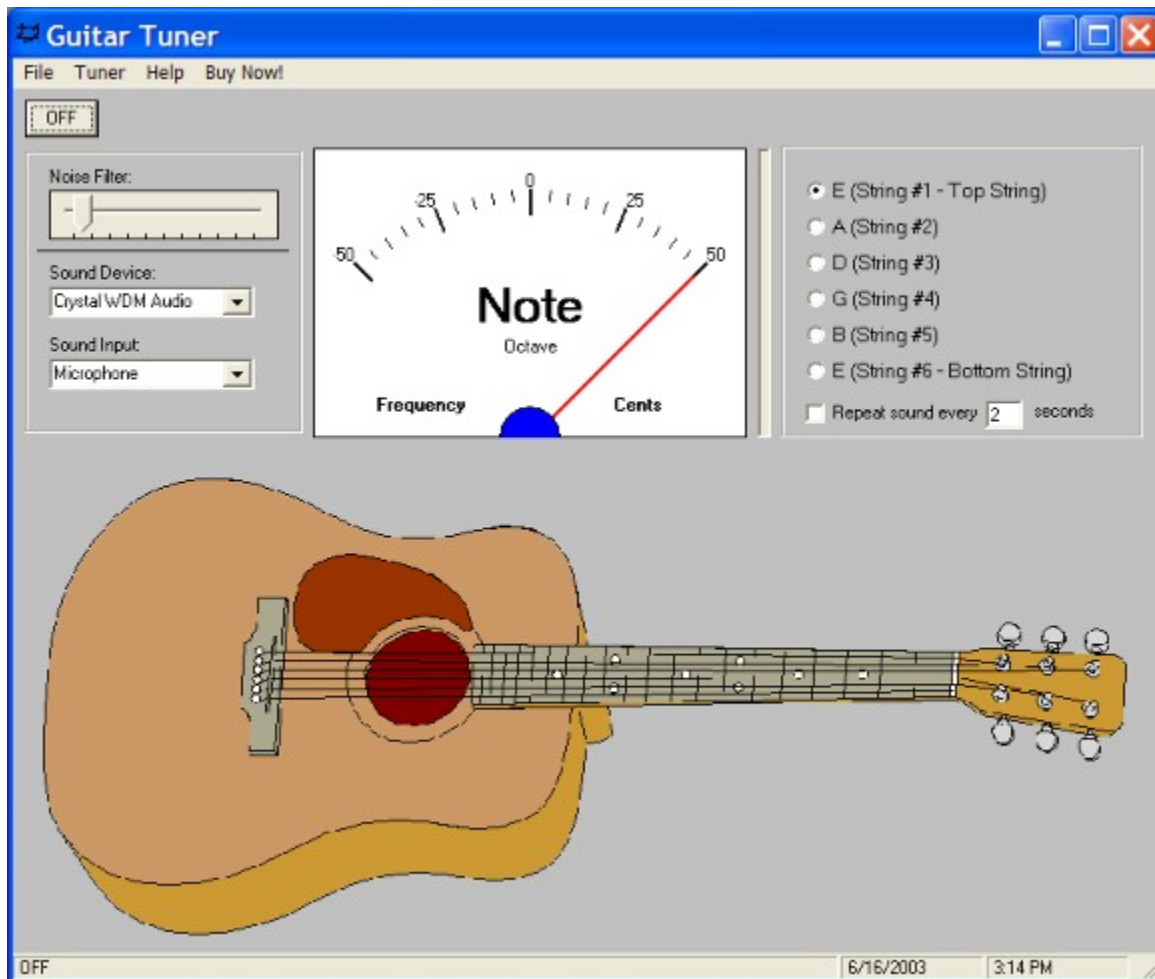
Guitar Tuner is easy to use. Simply click the ON button (or press the spacebar), and then play a note into your computer's microphone. The note will be displayed on the tuning meter. You want the tuning meter to display the correct note, the correct octave, and have the needle to point to zero cents for your instrument to be in tune. Additionally, you may select the string you are tuning by selecting the correct radio button in the right-hand panel. When you select the string, a tone is played that you can tune to. You may select the checkbox to repeat the sound at the interval you specify. This allows you to tune by ear, or to simultaneously use the tuning meter.

Important!

§ For best results, keep the microphone away from noise (such as your computer fan).

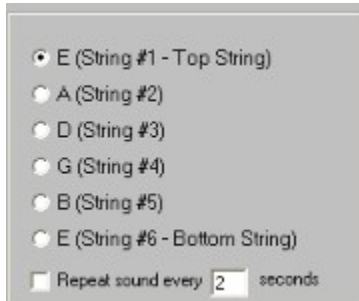
Talking or other noises including fan noise can disrupt the pitch detection.

§ Make sure the computer microphone is turned on and the mic volume is set to the maximum. Do this by going to Start, Programs, Accessories, Entertainment, Volume Control; select Options, Properties from the menu; then Adjust volume for: Recording; click ok; then select the microphone and turn up the volume to maximum.



Selecting the String

You can select the string to tune by choosing one of the six (6) radio buttons that represent each string. When you select a radio button, a tone will sound. You can use this tone to tune by ear, or you can use the tone in conjunction with the tuning meter. You can make the tone repeat by selecting the checkbox and entering a delay in seconds. With this option, the tone will repeat every designated number of seconds.



The screenshot shows a grey rectangular window with a list of six radio buttons and a checkbox with a text input field. The radio buttons are labeled as follows:

- E (String #1 - Top String)
- A (String #2)
- D (String #3)
- G (String #4)
- B (String #5)
- E (String #6 - Bottom String)

Below the radio buttons is a checkbox labeled "Repeat sound every" followed by a text input field containing the number "2" and the word "seconds".

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