

"Audacity" ABC's

A Basic Introduction to Free Audio Recording Software

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Acknowledgement

Some materials are taken from the Audacity Online Help and From the Audacity web site help page.

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This workshop is designed to meet the following objectives:

- 1. Locate the Audacity web site.
- 2. Open Audacity.

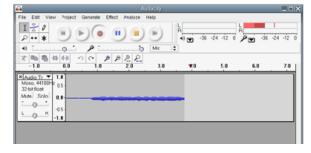
- 3. Identify the Toolbars and Tools.
- 4. Define basic terms used with audio recording.
- 5. Record a sound file.
- 6. Save a sound file.
- 7. Open a saved audio file.
- 8. Edit and audio tile.

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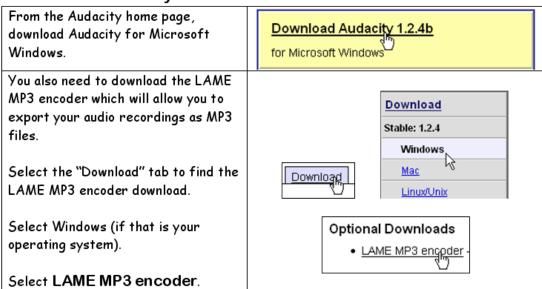


Audacity is a free audio recorder and editor which you can download from http://audacity.sourceforge.net/





Download Audacity



Note: Be sure to cleanse your computer of spyware immediately after downloading and installing any freeware or shareware from the Internet. For detailed instructions, please see the TLC handout *Spyware Removal*.

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System Requirements

- Windows 98 or better
- A sound card with speakers or headphones
- A microphone

What Can Audacity Do?

- Record speech through a microphone or record from CD or from audio files previously saved on your computer
- Import and export WAV, AIFF, AU files
- Import MPEG audio (including MP2 and MP3 files) with "libmad"
- Export MP3s with the optional LAME encoder library
- Create WAV or AIFF files suitable for burning to CD
- Import and export all file formats supported by "libsndfile"
- Easy editing with Cut, Copy, Paste, and Delete
- I lea unlimited I lade (and Dade) to an healt any number of atone

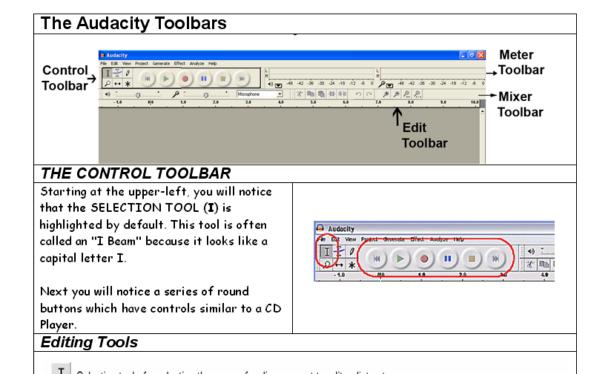
- . Ose annimited Ondo (and Kedo) to go back any number of steps
- Edit and mix an unlimited number of tracks
- Fade the volume up or down smoothly with the Envelope tool
- Change the pitch without altering the tempo, or vice-versa
- Remove static, hiss, hum, or other constant background noises
- Adjust volumes with Compressor, Amplify, and Normalize effects

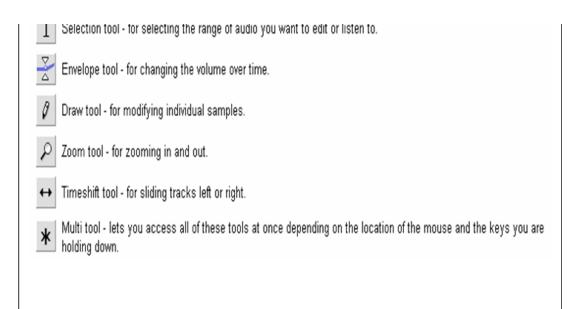
Note: Audacity does not currently support WMA, AAC, or most other proprietary or restricted file formats.

Sound File Formats	
Audacity Project Format (AUP)	Audacity projects are stored in an AUP file - a file format only used by Audacity. (In order to use your audio file in any other program, you will need to save it in another format.)
WAV (Windows Wave format)	This is the default audio format for Windows and is supported by most computer systems.
AIFF (Audio Interchange File Format)	This is the default compressed format on the Macintosh.
MP3	This is a compressed audio format that is the most popular way to store music.
Ogg Vorbis	This is a compressed audio format that was designed to be a free alternative to MP3.

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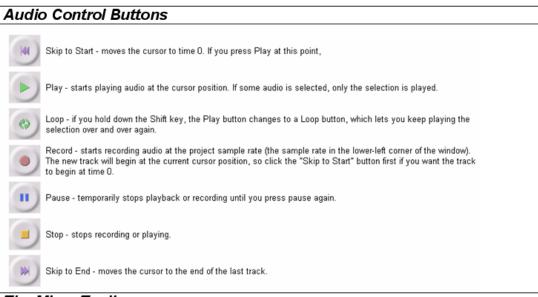
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The Mixer Toolbar



The Mixer Toolbar has three controls, used to set the volume levels of your audio device and choose the input source. The leftmost slider controls the output volume, the other slider controls the recording volume, and the control on the right lets you choose the input source (such as "Microphone", "Line In", "Audio CD", etc.).

Changing these controls has no effect on the audio data in your project - in other words it doesn't matter what the output volume

level is when you Export or Save a project - the end result is the same.

The Edit Toolbar



All of the buttons on this toolbar perform actions - and with a couple of exceptions, they're all just shortcuts of existing menu items to save you time.

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Holding the mouse over a tool will show a "tooltip" in case you forget which one is which.

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The Edit Tools Cut □ Сору Paste -MH-Trim Outside Selection **%** Silence 5 Undo \sim Redo Zoom In € Zoom Out Fit selection in window - zooms until the selection just fits inside the window. Fit project in window - zooms until all of the audio just fits inside the window.

The Meter Toolbar



The Meter Toolbar is used for monitoring the input and output audio levels. Typically it is used to make sure that the average volume is as loud as possible (for maximum fidelity) without clipping. The output (playback) meter is the green one, on the left pictured above, and the input (recording) meter is in red, on the right.

If you float the Meter Toolbar, either by dragging it out of the toolbar or by selecting "Float Meter Toolbar" from the View menu, you can resize it and even orient it vertically.

Normally the meters are only active when you are playing or recording audio. However, you can also monitor input when you're not recording - to do this, either select "Monitor Input" from the input meter's pop-up menu, or else just click on the input meter. If you have a microphone or other input source attached, you will be able to watch the level of the audio before you start recording.

Each meter shows several characteristics of the audio level at once. For stereo, the top bar shows the left channel, and the bottom bar shows the right channel. The brightest part of the bar shows the average audio level. The darker part of the bar shows the peak audio level. The peak-hold line to the right of this shows the maximum audio level achieved in the last 3 seconds. Finally, the clipping indicators on the far right of each meter will light up if clipping is detected (meaning that the audio was too loud and will sound distorted). If clipping is detected when you are recording, you should stop, lower the volume of your input source, and start recording again from the start.

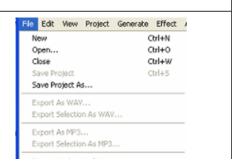
If the level of the input (recording) source is too high, you can try to lower the input level using the Mixer Toolbar, but if this doesn't work, you should try to lower the volume of the external input source (e.g., your microphone, cassette player, or record player).

It is possible, especially if you have an older, slower computer, that the Meter Toolbar may interfere with Audacity's ability to record or play audio with the highest quality, because your computer is so busy redrawing the meters that it doesn't have time to process enough audio. In this is the case for you, you can disable the Meter Toolbar in the Interface tab of the Preferences dialog.

Getting Started

Setting Preferences

Select File>Preferences

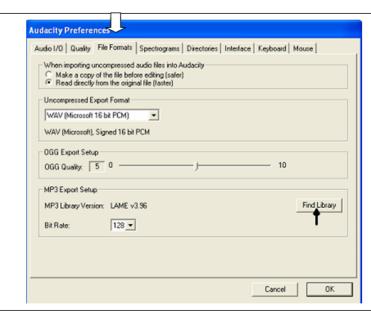




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The Preference dialog box allows you to choose I/O devices, audio quality, file formats, and more. Select the File Formats tab. Locate the MP3 Export Setup and click on Find Library.

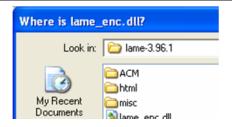


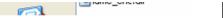
A dialog box will ask if you would like to locate the lame_enc.dll file. Click on the Yes button.



Navigate to where you have saved this download on your computer and open the lame_enc.dll file

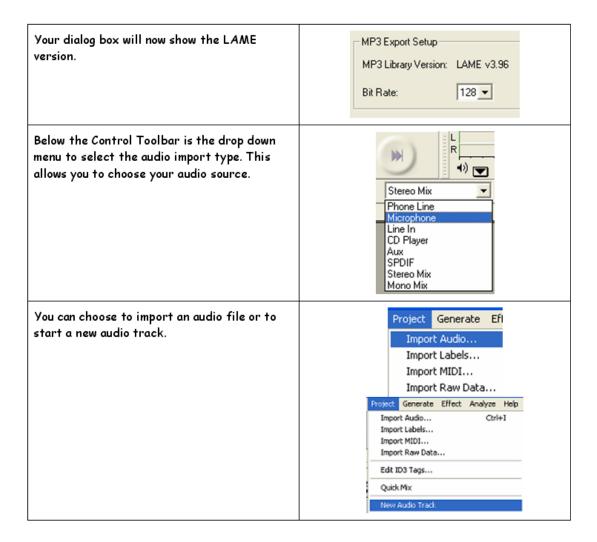






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