

## AUDACITY

“Audacity is free, open source, cross-platform software for recording and editing sounds.”

– Audacity Team

### Terms & Concepts

<p><b>Audio Editor</b>            Free open source software            Cross platform:            - Mac OS            - Windows            - GNU/Linux            Import/Export audio</p> <p><b>Transport</b>            Play/Pause (space bar)            Stop            Record            Skip to start            Skip to end</p> <p><b>Device Toolbar</b>            Recording (mono, multi-track)            Levels:            - Input/Output            - VU meters            Clipping display</p> <p><b>Audio Editing</b>            Waveform            Spectrogram            Timeline            Channels, Tracks, Clips &amp; Labels            Editing functions:            - Cut, Copy, Paste            - Delete            - Undo/Redo            Trim (Crop)            Scrubbing and Seeking            Timeline Quick-Play            Zero crossing</p> <p><b>Tools</b>            Selection tool            Envelope tool:            - Logarithmic fade in/out            Draw (pencil) tool            Zoom tool            Time slice tool</p>	<p><b>Tools (cont.)</b>            Multi-tool mode            Envelope Tool</p> <p><b>Effects (Selected)</b><sup>1</sup>            Delay            Echo            Reverb            Pitch Shifting/Time Stretching:            - Change Pitch            - Change Tempo            - Change Speed            - Sliding Stretch            - Paulstretch (extreme stretch)</p> Repeat Reverse Adjust volume - Amplify - Compressor - Crossfade Clips - Crossfade Tracks - Fade In/Fade Out + Linear + Exponential (see Tools) - Normalize <p>Filter/Alter Frequencies            - Bass and Treble            - Classic Filters            - Distortion            - Equalization            - High/Low Pass Filters            - Notch Filter            - Phaser            - Tremolo            - Wahwah            - Vocoder</p> <p>Remove            - Click Removal            - Clip Fix            - Noise reduction            - Repair            - Vocal reduction &amp; isolation            - Vocal remover</p>	<p><b>Generate</b>            Chirp            DTMF tones            Karplus-Strong algorithm:              - Plucked string or Risset drum            Rhythm (Click) track            Sample Data Import            Silence            Tone</p> <p><b>Analysis</b>            Beat Finder            Contrast            Find Clipping            Plot Spectrum            Sample Data Export            Silence &amp; Sound Finder</p> <p><b>Formats</b>            Audacity Project (.aup3)            Mono/Stereo/Multitrack            Pulse code modulation (PCM)            Sample rates (up to 192K)            Bit depth:              - 16-bit, 24-bit &amp; 32-bit            Red Book Audio Standard:              - CD: 16-bit, 44.1 KHz            Uncompressed audio:              - AIFF (Mac OS)              - (WAV (Windows))            Compressed audio:              - Codec              - Lossless compression              - Lossy compression              - Size compressed              - Formats: MP3;              also AAC, Apple Lossless,              FLAC, MP2, MP3, MP4,              Ogg Vorbis, etc.</p> <p><b>Plug-ins</b>            Nyquist programming language</p>
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Audacity Manual – <https://manual.audacityteam.org>

<sup>1</sup> A complete listing of Audacity’s *Effects, Generators, Analyzers and Tools* (with documentation) is available at: [https://manual.audacityteam.org/man/index\\_of\\_effects\\_generators\\_and\\_analyzers.html](https://manual.audacityteam.org/man/index_of_effects_generators_and_analyzers.html).