AUDACITY

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

– Audacity Team

Terms & Concepts

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

Audacity Manual – https://manual.audacityteam.org

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[1] 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.