# VerticaPy Lesson Series: Editing Audio

This document is an overview of the basics of recording and editing audio for the VerticaPy Lesson Series.

## Prerequisites

Download and run the [Audacity installer](https://www.audacityteam.org/download/) and the [FFmpeg installer](https://lame.buanzo.org/ffmpeg64audacity.php).

## Recording Audio

You can either record audio through Audacity using your microphone or record a video.

If you created and recorded your video separately (e.g. it consists solely of graphics and slides) and just need narration, you should record audio directly through Audacity.

## Removing Noise

If your recording contains background noise, you should remove it with Audacity. For a more detailed guide, see [Noise Reduction](https://manual.audacityteam.org/man/noise_reduction.html).

1. Import your video or audio file with **File** > **Import** > **Audio**.
2. Click and drag on the waveform to select a portion of the audio that **only** contains background noise (that is, no narration).
3. Click on **Effect** > **Noise Reduction…**. The **Noise Reduction** window appears.
4. Click **Get Noise Profile**.
5. Click and drag on the waveform to select the portion of the waveform that needs noise reduction. You can optionally select the entire waveform.
6. Click on **Effect** > **Noise Reduction**. The **Noise Reduction** window appears.
7. Modify the **Noise reduction (dB)**, **Sensitivity**, and **Frequency smoothing (bands)** options according to your preferences. You can listen to a preview by clicking **Preview**. This might require some trial and error.
8. Click **OK** to reduce the noise in the selected portion of the waveform.

## Normalize Volume

If splice together several audio clips, you might find that the volume varies between each clip. If this happens, you should normalize the audio with **Effect** > **Normalize**.

## Export the File

After removing noise and normalizing the volume, export the result with **File** > **Export as MP3**.