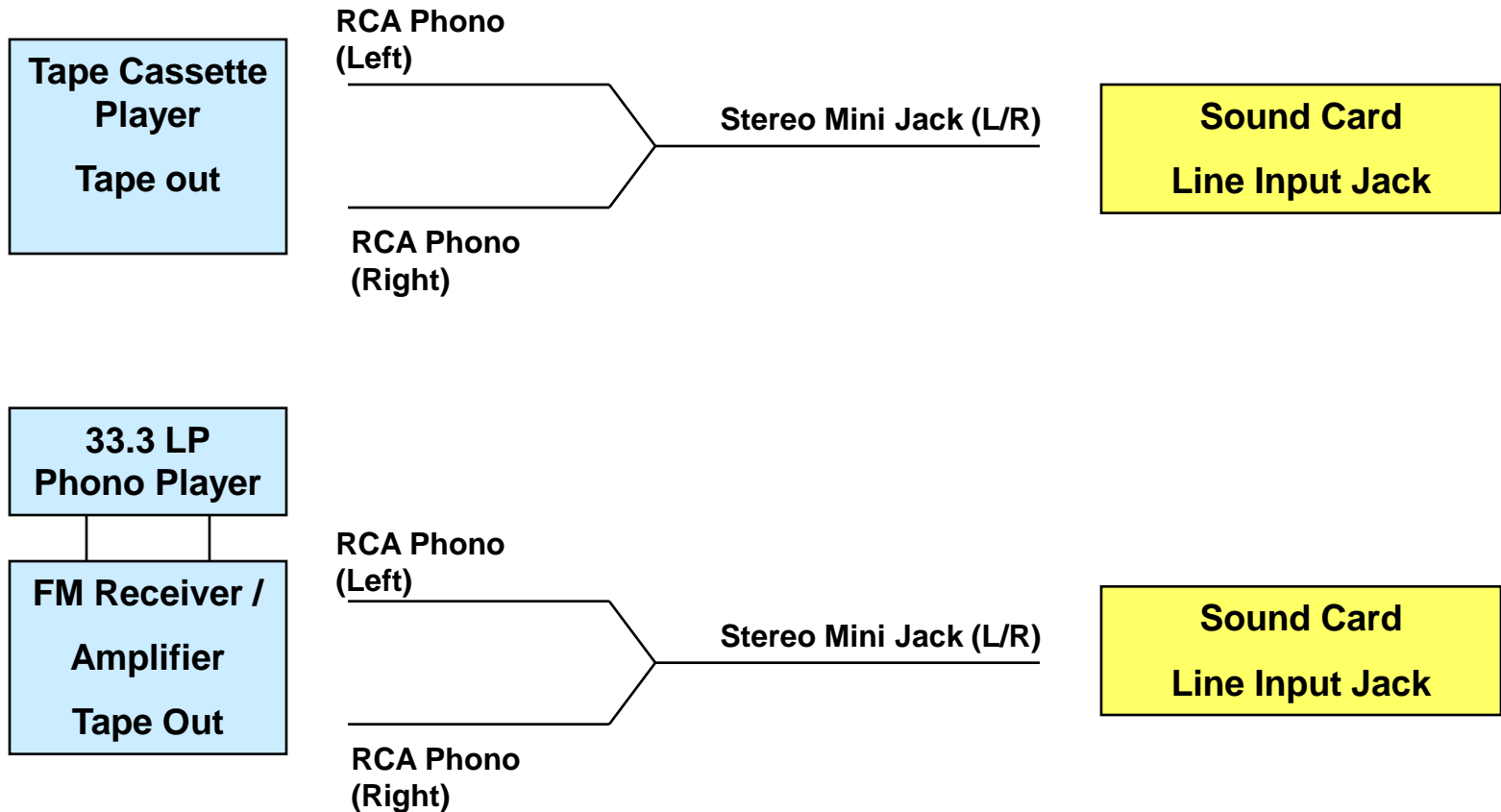


**Sun City Summerlin Computer Club
Seminar**

**Digital Media
*GoldWave Tutorial***

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Converting Audio Tapes and LPs



Digital Music Editors

- **GoldWave (Shareware)**
 - Does line-in recording
 - Full-featured music editor
- **Audacity (Open Source)**
 - Does line-in recording
 - Full-featured music editor
- **Roxio Creator Suite Music Editor**
- **Nero Wave Editor**
- **Spin It Again (can do noise reduction)**

GoldWave Basics

- **Use File > Open to open a file (MP3 or WAV)**
- **Zooming In or Out**
 - **Use Shift + <up arrow> to zoom in**
 - **Use Shift + <down arrow> to zoom out**
- **Setting Markers to make a selection**
 - **Left click in the wave form to set a Start marker**
 - **Right click and choose Set Finish marker**
- **In the Tool**
 - **Green arrow plays from beginning of track**
 - **Yellow arrow plays from beginning of selection**
- **Ctrl+A selects the entire track.**

Using GoldWave Filters

- **Select the part of the digital track to be filtered – usually the entire track.**
- **Go to the Effects menu, then the Filters submenu.**
- **Key filters are “Pop/Click” and “Noise Reduction”**
- **For “Noise Reduction”, choose one of the built-in presets, such as “Light Hiss Removal”. Then click OK.**
- **For “Pop/Click”, choose one of the presets or directly adjust the tolerance value. Then click OK.**
- **You can also adjust the Volume level of a selection. Use the presets, or directly set the desired DB change.**
- **To completely Mute a selection, use Edit > Mute.**

Cutting and Splicing

- Open a second song file. You will now see two track windows.
- Click the title bar of the second track window. Then select All or a region of the second track. Then Edit > Copy to the clipboard.
- Click the title bar of the first track window.
- Go to Edit > Paste At and choose an option:
 - At Beginning to pre-pend
 - At Finish Marker to insert
 - At End to append.
- In this way, you can combine several small tracks into a single, larger sound file.

Post-Processing a Full Album

- Use GoldWave, Nero Wave Editor, Roxio, Audacity
- Clean up each “side x” file with noise and hiss filters, mute and crop off start / end noise.
- Optional - can break each side up into individual files:
 - Open the “full album” MP3 file for Side 1 or Side 2.
 - View the entire wave form.
 - Zoom in as needed.
 - Identify start / end of each song or sound segment (short interval of near 0 level between).
 - Drop start & end markers to highlight the song from start to end (include some silence at each end).
 - Use File > Save Selection to save the selected segment as a separate MP3 file.

Useful Web Links

- www.goldwave.com
- <http://www.howstuffworks.com/cd.htm>
- <http://audacity.sourceforge.net/>
- <http://www.acoustica.com/spinitagain/index.htm>
- <http://www.download.com/>
- <http://www.roxio.com>
- <http://www.nero.com/en/index2.htm>
- <http://www.microsoft.com>
- <http://www.audio4fun.com/>