

Sun City Summerlin Computer Club

Digital Music SIG November 21, 2002

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Agenda

- Introduction
- Presentation (45 min)
 - Ripping MP3 Files From Audio CDs Using MusicMatch
 - Downloading and Installing Goldwave Sound Editor
 - Editing MP3 Files With Goldwave
 - Burning Audio CDs Using MusicMatch
- Open discussion, questions and answers

DM SIG Charter

- The Sun City Summerlin Computer Club Digital Music SIG will provide a recurring forum for members interested in all aspects of computer based digital music to meet, discuss and learn more about the topic.
- The SIG will meet at 9:00AM the third Thursday of each month for 60 to 90 minutes. Each meeting will feature a topical discussion, followed by a "round table" question and answer session.
- The SIG's target audience will be intermediate to advanced digital music users, but all members are welcome.

DM SIG Areas of Interest

- Software tools for capturing analog and digital music into PC file formats, for converting files from one format to another, and for creating audio and MP3 CDs.
- Software tools for mixing and editing digital sound and music.
- Peer to Peer file sharing tools.
- General purpose "jukebox" programs for organizing and playing music on the PC hard disk.
- Basics of digital music technologies, such as sound cards, music file formats, hardware and software synthesizers.
- MIDI and Karaoke technologies and MIDI music composing systems.
- Configuring a PC-based digital music home entertainment system.

Ripping Steps

- Use Windows Volume Control to set levels and mute the “Mic” input.
- Start Music Match Jukebox (or can use Windows Media Player).
 - Adjust program settings as needed to record from CD drive.
 - Set the MP3 recording bit rate to 128 or 160 (no point in going higher)
- Insert the audio CD to be “ripped”
(MusicMatch will try to “play” the CD, stop the playback.)
- Click the main “Record” button; then click “Record” button in the record window.

Installing GoldWave

- Site is: <http://www.goldwave.com>
- Make a folder C:\GoldWave to hold the downloads.
- Download main GoldWave self-extractor / installer.
- Download LameWin self extractor / installer (MP3 encoding).
- Download Calogg.zip (Ogg-Vorbis encoding).
- Run or unzip the downloaded files.
- Install GoldWave in C:\Program Files\GoldWave.
- Install LameWin in C:\Program Files\Lame.
- Unzip Calogg.zip to C:\Goldwave folder.
- Copy C:\Goldwave\calogg00.dll to:
 - C:\Windows\System32 (WinXP); C:\Windows\System (Win9x)
- Copy C:\Program Files\Lame\lame_enc.dll to:
 - C:\Windows\System32 (WinXP); C:\Windows\System (Win9x)

Post-Processing a Full Album

- Use GoldWave or Nero WAVE editor (or equivalent)
- If recorded the entire tape or LP, can break it up:
 - Open the “full album” MP3 file.
 - View the entire wave form.
 - Zoom in as needed.
 - Identify start / end of each song.
(short interval of 0 level between).
 - Highlight the song from start to end.
(include some silence at each end).
 - Save the highlighted segment as a separate MP3 file.

Post-Processing Single Songs

- Use GoldWave or Nero WAVE editor (or equivalent)
- Open the "single song" MP3 file.
- View the entire wave form – look for spikes.
- "Play" the song listen for scratches, pops, tape hiss, etc.
- Try the various automatic filters – esp. "pop / click".
- Adjust recorded volume level as needed.
- Trim off any start / end garbage.
- Apply fades in or out if desired.
- Save the cleaned up file back as a separate MP3 file.
(Name it as: "<Artist> - <Title>.mp3")

November Web Links

- Download Musicmatch: <http://www.MusicMatch.com>
- Online Music CD sources:
 - <http://www.seconds핀.com> (used CDs, great prices)
 - <http://www.ebay.com> (used CDs, very good prices)
 - <http://www.half.com> (by E-Bay - used CDs, very good prices)
 - <http://www.buy.com>
 - <http://www.walmart.com>
 - <http://www.amazon.com>
 - <http://www.google.com> search using: "used "music CD"
- Turntable repair parts:
 - <http://www.TurntableBasics.com>

Digital Music SIG

Round Table
Questions and Answers