

Track CPR

v2.7

For iTunes 11+/macOS 10.10+
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This applet will assist with associating replacement files to a batch of dead tracks (iTunes tracks whose files are missing/inaccessible as signified with a "!").

For macOS 10.10 and later only.

This script is Donationware. If you use it and like it please consider making a donation to support my AppleScripting efforts. Click here for more info.

Installation:

This script is an **AppleScript applet** and can be run by double-clicking its icon in the Finder. However, it is probably best accessed from the iTunes Script menu.

Put AppleScripts in your iTunes "Scripts" folder. This is located at *[user name] / Library / iTunes / Scripts /*.

*The user Library directory is hidden by default. To make it visible, hold down the Option key on your keyboard and select **Go > Library** from the Finder.*

If the *[user name] / Library /* folder does not contain the "iTunes" or "Scripts" folders then then create them and put the script(s) in the "Scripts" folder. AppleScripts will then appear in iTunes' Script menu, and can be activated by selecting by name and clicking. Be sure to also save this Read Me document in a safe and convenient place.

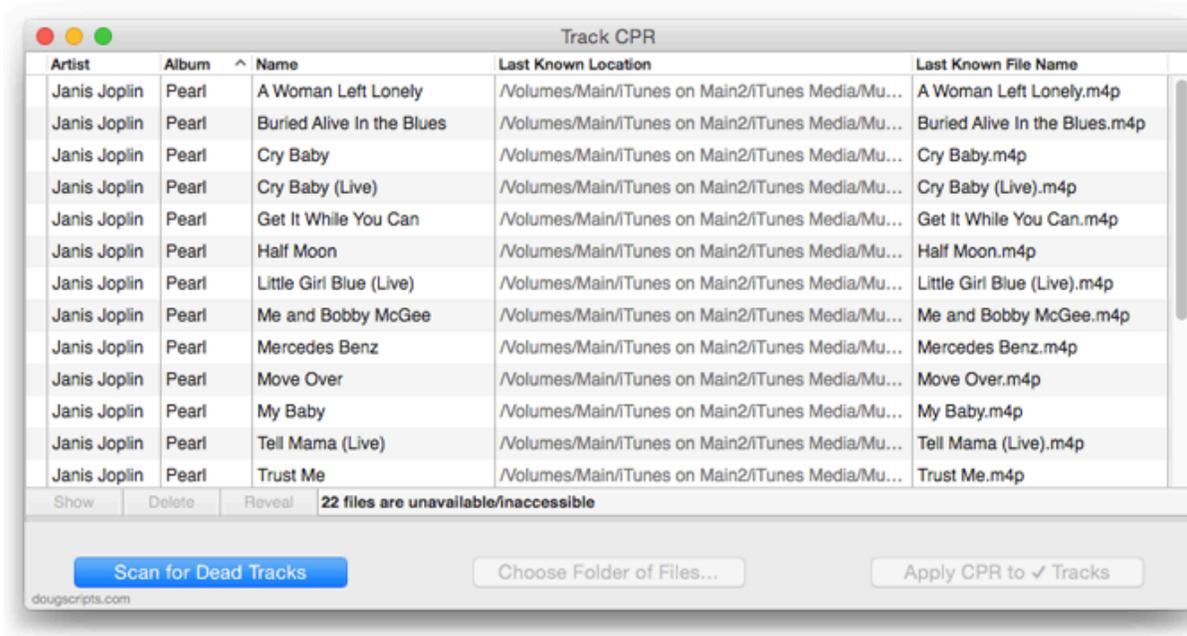
See the online Download FAQ for more info and video on downloading and installing AppleScripts.

How to use:

Using the script to re-associate dead tracks with new files is a **3 Step Process**. Here's a Quick Start, but be sure to read the **Important Notes & Caveats** section below, too.

And: you may be tempted to replace all your dead tracks in one swoop. **Resist. Do Not Do That.**

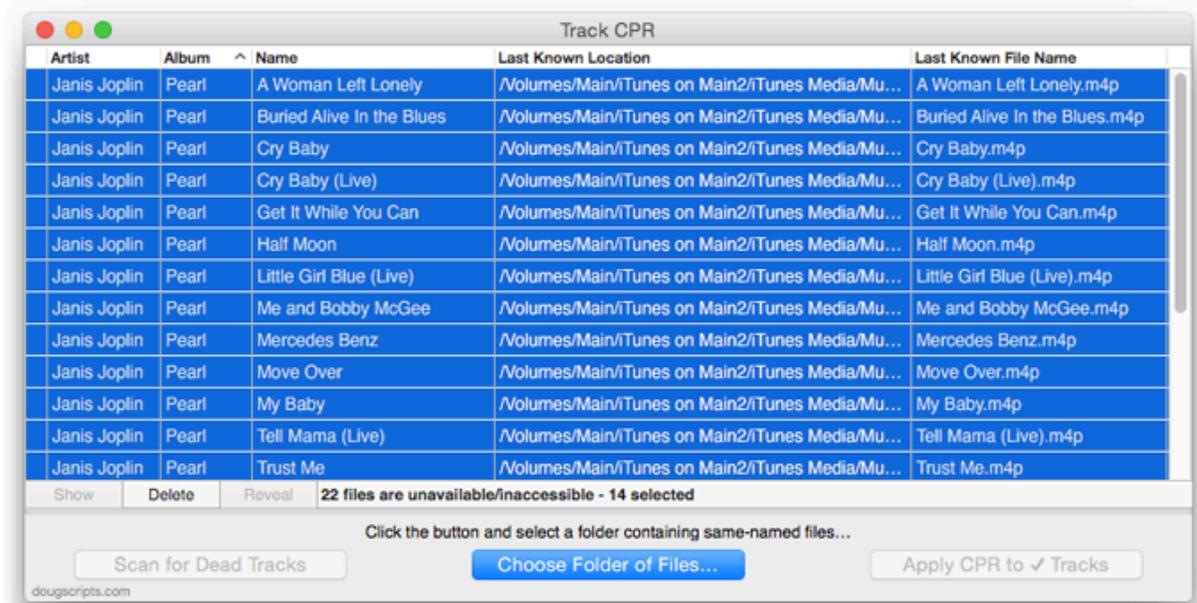
1) Launch the script. When its main window displays, click the **Scan for Dead Tracks** button in the lower left of the window. It will take a few moments to scan your current iTunes library for tracks with missing or inaccessible files. These "dead tracks" will be displayed in **Track CPR's** main window with extant file information:



For best results, resize the main window horizontally to display as much information as possible.

The "Last Known Location" and "Last Known File Name" entries are derived from each dead track's last known file path according to iTunes' own database. iTunes has determined (and the script has verified) that these files are either no longer available or are currently inaccessible.

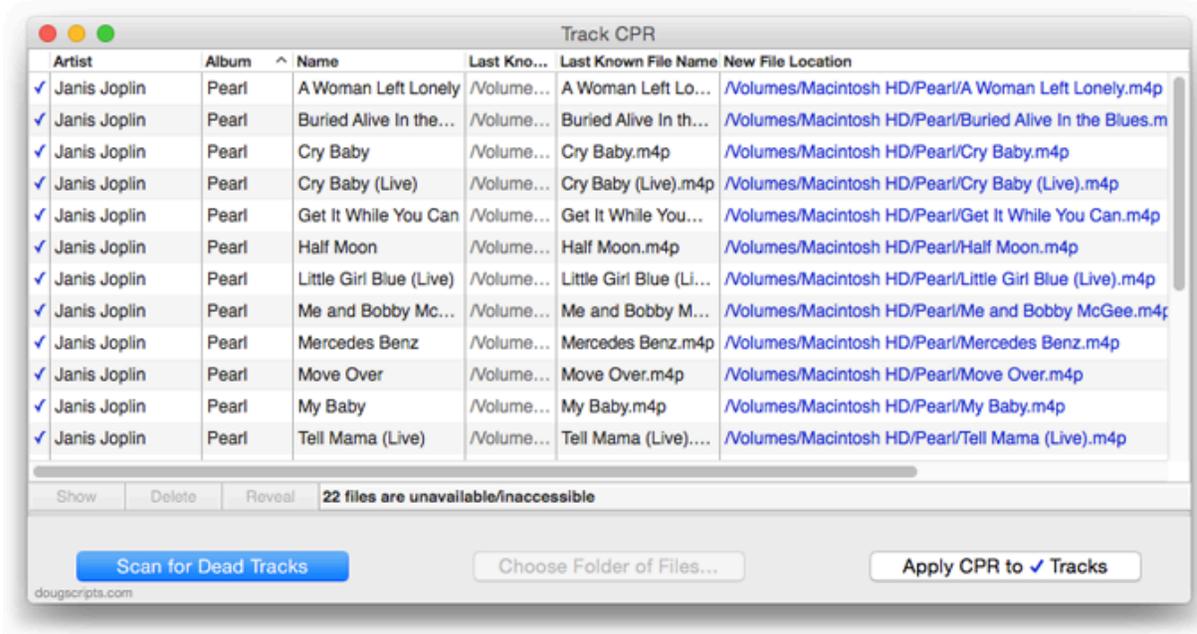
2) Select some of the dead tracks in the list. An album's worth of tracks is a good start:



When you do, the **Choose Folder of Files...** button becomes enabled. Click this button to display a standard Open Panel. Navigate to and select a folder which contains the audio files you want to associate with the dead tracks you have selected.

IMPORTANT: The script will **recursively** search the chosen folder for a single file with the **exact same filename** as each missing file of the **selected** dead tracks (as displayed in the "Last Known File Name" column). If *more than one* same-named file is found anywhere within the chosen folder (at any level) then *none* of them will be considered as viable replacements. For best results, select a folder as near to a potential replacement file as possible. For example, the ALBUM folder in a path like MUSIC/ARTIST/ALBUM/FILENAME.EXT. It also may be possible to choose the ARTIST folder in that configuration as long as it doesn't contain more than one matching filename in any of its sub-folders (a "greatest hits" album could be a problem, for example).

If there is a *single* file in the chosen folder (at any level) that matches the filename of one of the selected dead tracks, it will be listed and colored blue along-side the track in the list with a blue checkmark in the far left column:



- You *may* want to consider manually editing the filenames of any source files ahead of time to ensure that **Track CPR** will match them to the dead tracks' last known filenames (*or, see "How to Cheat", below*).

3) If there are any entries in the list that are **blue-checkmarked** after examining the chosen folder, the **Apply CPR to ✓ Tracks** button becomes enabled. Click this button to have **Track CPR** reassign each **checkmarked** track's Location property with the file it found. None of the original dead track's meta-data will be lost.

Only checkmarked tracks will be processed. Prior to clicking on the **Apply CPR to ✓ Tracks** button, the checkmark for any entry with a replacement file can be toggled off or on by selecting it and using the **Edit > Toggle Checkmark of Selected** menu command or the keyboard shortcut Shift-Command-X.

IMPORTANT: Replacement files will remain in their current location.

Technically, you are not really "adding" a file to iTunes and thus iTunes will not be compelled to copy the file to the iTunes Media folder. So, unless the files are *already* located in the "iTunes Media" folder they will not be moved or copied there automatically by iTunes or otherwise.

- You *may* want to consider moving matching-named files into their "final resting place" *before* launching Track CPR.

Tracks that are successfully associated with the files in iTunes will be removed from the Track CPR list.

Editing the Filename (or How to Cheat)

The text in the "Last Known File Name" column can be user-edited. This capability – *if used thoughtfully, see Cautions below* – can assist with re-associating *similarly* named files instead of relying on an exact match for the original filename. Essentially, you can **force** a match.

Remember that the script will try to match the "Last Known File Name" of a particular track entry when it searches your selected folder. It may be advantageous to search for a slightly different filename instead of the filename of the original file.

For example, let us say that a set of album tracks' files have filenames that each begin with their play order number. But the files you want to re-associate with them *do not* start with numbers. Or perhaps they have a different file extension. Before you "Choose Folder of Files...", simply click the filename in the list (in the "Last Known File Name" column) and edit it accordingly. Press the **Return** key to end editing.

When you eventually "Choose Folder of Files..." the script will attempt to match the newly edited text instead of the original filename.

IMPORTANT CAUTIONS ABOUT USING THIS EDITING "CHEAT" The trick to this script is that it is replacing a missing file with a same-named file. However, using a file with a filename other than the one iTunes is expecting (by using this "cheat") could cause problems:

- iTunes may presume such a file is a **new** file being added.
- A found file's metadata may over-write the original track's tag data in iTunes after being re-associated.
- If the file already exists in iTunes and is already assigned to another track, you may induce some additional confusion.
- This feature can also cause havoc if used with **iCloud Music Library**, in which case its use is NOT RECOMMENDED.

Important Notes & Caveats!

- **This app is an *assistive tool* not a one-click miracle worker.**
- **This bears repeating:** Any folder of replacement files that you select **must** contain **only one** file whose filename is the **same** as one of the operative dead tracks' missing files in order to be considered as the single viable replacement file for that track. There is no *simple, consistent* and *accurate* way to assign an arbitrary batch of files to an

arbitrary batch of iTunes tracks without knowing which file should be associated with a particular track. The last known filename is the only *dependable* "fingerprint" that the track entry and the file have in common. And the script cannot *efficiently* determine that something named "Love Me Do.mp3" *may* be the same as something named "Love Me Do (Mono).mp3" or "08 Love Me Do.m4a", or any number of other possibilities.

- **Don't go fishing!** Don't choose the topmost possible folder hoping that the filename(s) you require are *somewhere in there*. Know your target folder.
- **FOR BEST RESULTS** perform replacements on a small number of tracks at a time. It reduces the chance of multiple-same-named files being found within the selected folder. Then perform CPR after you have matched several batches of selected tracks.
- **The replacement operation cannot be undone with the script.**
- **iCloud Music Library/iTunes Match may report each new track's iCloud Status as "Error" or "Waiting" until it eventually updates.** Replacing the file like this may confuse track syncing. Of course, if you're replacing a dead track, perhaps it isn't in the cloud anyway.

Additional Tools & Keyboard Shortcuts

Toolbar Buttons

Show (Command-L) - reveal a selected dead track in iTunes

Delete (Command-Delete) - remove selected dead tracks from the **Track CPR** list.
Has no effect on tracks in iTunes.

Reveal (Shift-Command-R) - (enabled after any replacement files have been listed)
reveal a selected file in the Finder

Menu Commands

File > Re-Scan (Command-R) - Re-scan iTunes for dead tracks. The current list will be replaced and updated.

Edit > Select All (Command-A) - select all the dead tracks in the list

Edit > Select None (Shift-Command-A) - de-select the current selection

Edit > Invert Selection (Shift-Command-I) - invert the current selection

Edit > Toggle Checkmark of Selected (Shift-Command-X) - Toggle the checkmark on or off for selected eligible tracks

View > Toggle Text Size (Command-+) - Change the size of the text in the list big or small

Helpful Links:

Information and download link for this script is located at:

<https://dougscripsts.com/itunes/scripts/ss.php?sp=trackcpr>

If you have any trouble with this script, please email me.

My name is Doug Adams

support@dougscripsts.com

Click on the underlined URL text:

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Version History:

v2.7 October 24, 2017

- Updated with accommodations for macOS 10.13 High Sierra
- Allows user-edit of source filename
- Preserves selection after "not found" result
- Minor maintenance and security fixes

v2.6 May 29, 2017

- Accommodates playlist windows in iTunes 12.6 and later
- Minor maintenance
- Fixes compatibility issue with macOS 10.12.5
- This version for macOS 10.10 and later only

v2.5 July 14, 2016

- Fixes "flickering" issue in column headers
- Preliminary support for macOS 10.12

v2.4 December 3, 2015

- Accommodates changes in iTunes 12.4
- Faster "dead track" analysis
- Minor security and maintenance fixes

v2.3 December 3, 2015

- Fixes text encoding issue
- Ignores app tracks/files

v2.2 July 15, 2015

- Preliminary support for OS X 10.11 (El Capitan)
- Accommodates changes in iTunes 12.2

v2.1 November 16, 2014

- Fixes for Yosemite compatibility
- Fixes issue with false positives
- Fixes issue with reading file paths on shared volumes

v2.0 October 23, 2014

- Adds support for OS X 10.10 Yosemite/iTunes 12
- Adds "Check for Update" command
- Minor performance tweaks

v1.0 June 4, 2014

- initial release (based on very old "iTunes Track CPR")

This doc last updated October 24, 2017

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