



# ReaClassical Manual

Generated 2026-02-27 21:03:33 UTC

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For new features in ReaClassical 26 see [here](#)

# Welcome

Thank you for your interest in ReaClassical. This project is driven by a passion to create a flexible tool for musicians, composers, and sound engineers. Your support and feedback are essential for its improvement.

Whether you are new to ReaClassical or have used it from the start, your trust inspires continued innovation. I hope it enhances your classical music production and supports your creative vision.



## Introduction

If you already own REAPER then the world of classical editing including source-destination editing (aka 2-, 3-, and 4-point editing), crossfade editing and more are available at no extra cost to you via the freely available ReaClassical system. There's no need to spend any of your hard-earned money on Sequoia, Pyramix or SaDiE in order to make editing precise and efficient. As a classical engineer myself, I can say with certainty that what I am about to share with you covers all my recording, editing and mastering needs. Indeed, I couldn't return to the old way of working at this point. Your mileage may vary and I'd love to hear from you if there are functions that you feel might be missing.

## Documentation

This online manual, located at <https://reaclassical.org/manual>, serves as the official documentation for ReaClassical. It is also available as an offline PDF from within ReaClassical by pressing **H** (for *help*). The benefit of the offline version is that it is always in sync with the version of the tools you are using. The structure of the manual is designed to take the user through preliminary remarks, install and update procedures for both ReaClassical and REAPER then a detailed look at workflows from creating a project through to final render. After some brief closing remarks, there follows the appendices (descriptions of all the ReaClassical functions, keyboard shortcut guide, recommended free mastering-grade plugins, system tweaks for all three major OSes, and, finally, a manual install guide mainly for academic purposes). I highly recommend doing a complete read of the manual and becoming very familiar with appendices A and B.

This manual is released under the GNU Free Documentation License v1.3. See <https://www.gnu.org/licenses/fdl-1.3-standalone.html>.

# Website

The website [reaclassical.org](https://reaclassical.org) serves as the entry point for new users. From here you can read about key features, donate to the cause, read this manual, installation instructions, navigate to the ReaClassical community thread and more.

## Coming from Standard REAPER

It is a very good idea to have a basic fluency in how REAPER works. However, much of ReaClassical relies on different workflows than you will be used to. So, with that in mind,

### Do

- Learn how items are dragged and trimmed in REAPER
- Continue using REAPER's mixer to set faders, panning, mute, solo (if you wish)
- Set up a ReaClassical project by first running `Ctrl + N`

### Don't

- Engage in any track and folder management (naming & renaming, creating, deleting, reordering etc) outside of Mission Control
- Set recording inputs outside of Mission Control
- Create custom track routing outside of Mission Control
- Create custom item groupings

### Avoid

- Using regular transport controls for recording or playback

## ReaClassical Community

The [community thread](#) plays an important role in the development of ReaClassical. Not only is it a place for users to suggest feature requests and point out bugs but also discuss more general classical music recording, mixing and mastering techniques. It also serves as something of a development blog as I not only announce the regular releases but also document the under-the-surface details for those that are interested.

Relatively new is the [ReaClassical Discord server](#). This is a great place for live support, general chat, proposing feature requests, workflow discussion, and letting the community know about albums or individual pieces you have created with the help of ReaClassical.

## Donate

I welcome monetary donations. You can use [PayPal](#) to do so. A good reference point for one-off donations per major release is the cost equivalent of a commercial REAPER license or higher. For

monthly donations perhaps gauge how much it costs for you to go out for a restaurant meal or do groceries in your own country.

## Other Ways to Contribute

In many ways, the most important way users can contribute to the development of ReaClassical is to actually use the tools! It makes me happy to know that engineers can make whole professional-sounding and technically accurate masters from ReaClassical. Another is to suggest features or let me know about bugs. You can either do this on the [thread](#) or via the [Issues](#) page on the ReaClassical GitHub.

## Spread the Word!

If you've enjoyed using ReaClassical in your projects, I'd be incredibly grateful if you could mention it in your album booklets, social media video descriptions, or anywhere you typically include session details. A simple acknowledgment alongside your usual credits helps spread the word and supports the continued development of the tool.

## Buy ReaClassical Merch

Get print-on-demand ReaClassical merch like shirts, mugs, totes, pins, stickers and more through my [TeePublic store](#)!

## Compatibility

ReaClassical runs on any system that is compatible with REAPER (nine architectures!). This includes 64-bit and 32-bit versions of Windows, MacOS and Linux (including Raspberry Pi).

## Source Code

The source code for ReaClassical, the mastering grade ReaClassical plugins, this manual and the website can all be found [here](#). ReaClassical is [GPL-3.0](#) licensed.

## Development Style

Due to working on GitHub and releasing the functions via ReaPack, I have the ability to push bugfixes and new features very quickly into an existing ReaClassical install. Often bugfixes happen within minutes or hours of receiving the report. When I dream up new features, the development often happens in rapid fashion over the course of a few days. However, now that ReaClassical has what I consider a mature feature set, I foresee maintenance and occasional bugfixes becoming more central to the process. This will give me more opportunity to work on this documentation, a complete video tutorial series etc. Part of development is also ensuring that ReaClassical continues to operate as expected with the latest REAPER versions. That's not to say there won't be new features appearing! As the REAPER developers add more new features, I will always check to see what might be useful for ReaClassical.

# Versioning Style

ReaClassical currently uses YY.M.MICRO versioning (where M is a non-padded month) to accurately reflect how current the software is. For example, 26.3.2 would indicate a March 2026 release with 2 further updates which might include new features, improvements to existing functions, or bugfixes.

## Tools and Languages

ReaClassical works on top of [REAPER](#), the digital audio workstation and utilizes [ReaPack](#), [SWS Extensions](#) and [ReaIngui](#). ReaClassical functions are coded using [Lua](#). The installers for all operating systems are shell scripts. The ReaClassical website uses [Skeleton](#). All coding is done either in REAPER's ReaScript Development Environment, [vscode](#) or [kate](#) on Linux. The online manual is written in [AsciiDoc](#). The ReaClassical splash screen and banner are created in [GIMP](#).

## Changelog

The changelog for ReaClassical functions can be found by double-clicking on the ReaClassical package in ReaPack and navigating to the [History](#) tab. Whenever you sync ReaPack via **Extensions** › **ReaPack** › **Synchronize packages** or the *ReaClassical Updater* function, this information should also appear automatically. For all updates including those not related to the functions themselves, a changelog can be found in the [release notes](#).

## Thanks

I am appreciative of the collective contributions of the REAPER community with regards the early source-destination actions (Pelleke, in particular), MPL, X-Raym, BirdBird, RCJacH, Sai'ke, Meo-Ada Mespotine, cfillion and many more. Finally, many thanks to Justin and Schwa for such an amazingly versatile DAW.

Thanks to all the ReaClassical users who make development so worthwhile.

# Getting Started

## Install

For the complete and recommended experience on Linux, macOS, and Windows, run the single install script provided below.

### IMPORTANT

You do not need to download or install REAPER separately and you shouldn't try to install ReaClassical inside an existing REAPER setup — ReaClassical comes bundled with its own fully-configured REAPER environment.

## Easy Complete Portable Installation (official method)

Copy the command for your operating system into either your terminal (MacOS and Linux) or PowerShell (Windows).

MacOS:

```
curl --proto '=https' --tlsv1.2 -sSf https://reaclassical.org/macOS | sh
```

Linux:

```
curl --proto '=https' --tlsv1.2 -sSf https://reaclassical.org/linux | sh
```

Windows:

```
irm "https://reaclassical.org/win" | iex
```

### TIP

Note that if the ReaClassical folder already exists, the installer will automatically add a unique suffix to ensure nothing is overwritten.

## Update

### Updating an Existing ReaClassical Portable Install

#### WARNING

If coming from ReaClassical 25, do not update but download a fresh copy of version 26.

Use **Extensions › ReaPack › Synchronize packages** or press **Shift + U**. This will sync ReaPack to get the latest ReaClassical functions.

### Factory Reset

In the ReaClassical top menu, click on ReaClassical Factory Reset to return most settings back to those presented at first install.

### Updating REAPER

It is highly advisable to use the version of REAPER that ships with ReaClassical. Due to potential incompatibility issues, for ReaClassical 26 onwards, the third-party REAPER update utility has been removed from the install package.

## Project Setup

1. Press **Ctrl + N**



2. Select the number of tracks you want per folder
3. Select a horizontal or vertical workflow

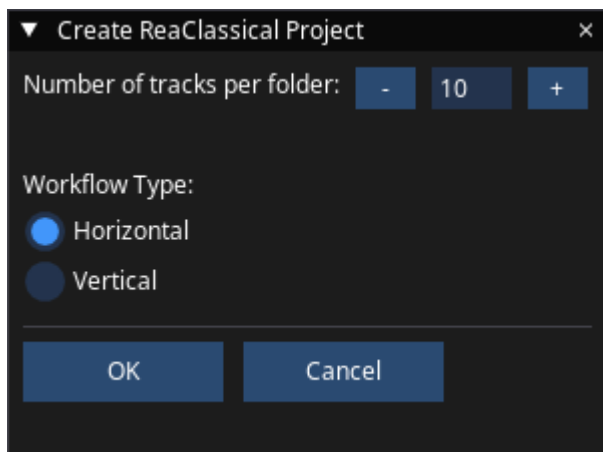


Figure 1. New ReaClassical Project

## Notes

### Track Count

A folder requires at least two tracks. If you really only need a single microphone pair for audio capture, consider 1) having left and right on separate channels, or 2) Having an empty second track that you can easily hide via a dedicated shortcut.

### Workflow Choice

A *horizontal* workflow approach means that recorded or imported takes are arranged left-to-right in a single folder. A *vertical* workflow approach is designed for recorded takes of similar material to be stacked vertically.

## Mission Control

As soon as you press [ OK ], you will see the Mission Control window.

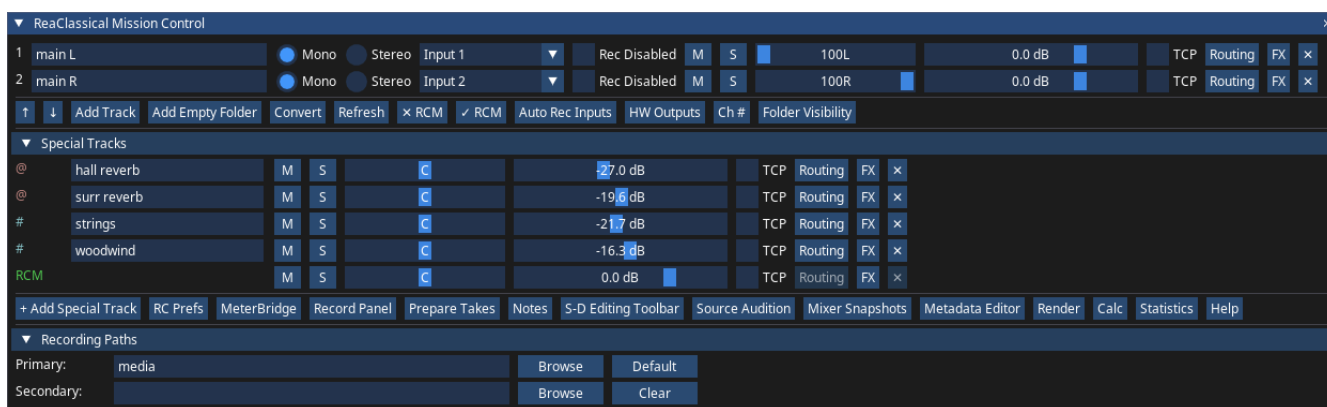


Figure 2. Mission Control

Use this dialog to:

- Name or rename tracks

- Set recording inputs manually or automatically based on track naming
- Temporarily disable recording of a channel
- Set routing
- Add "special" tracks such as aux, submix, room tone, live bounce, listenback and reference tracks
- Change visibility of folders and special tracks in the arrange window
- Add a track to all folders
- Delete a track from all folders
- Re-order tracks in all folders
- Convert between horizontal and vertical workflows
- Give mixer tracks direct connections to hardware outputs (if mixing using external gear)

### WARNING

Do not attempt to complete any of the above actions outside of Mission Control!

Additionally you can use Mission Control to optionally:

- Reach other important ReaClassical windows via a button click
- Add FX, set volume, panning, mute/solo
- Set primary and secondary recording paths (it can also be used to set a custom path for the Smart Audio Import function)

## Converting a Standard REAPER Project

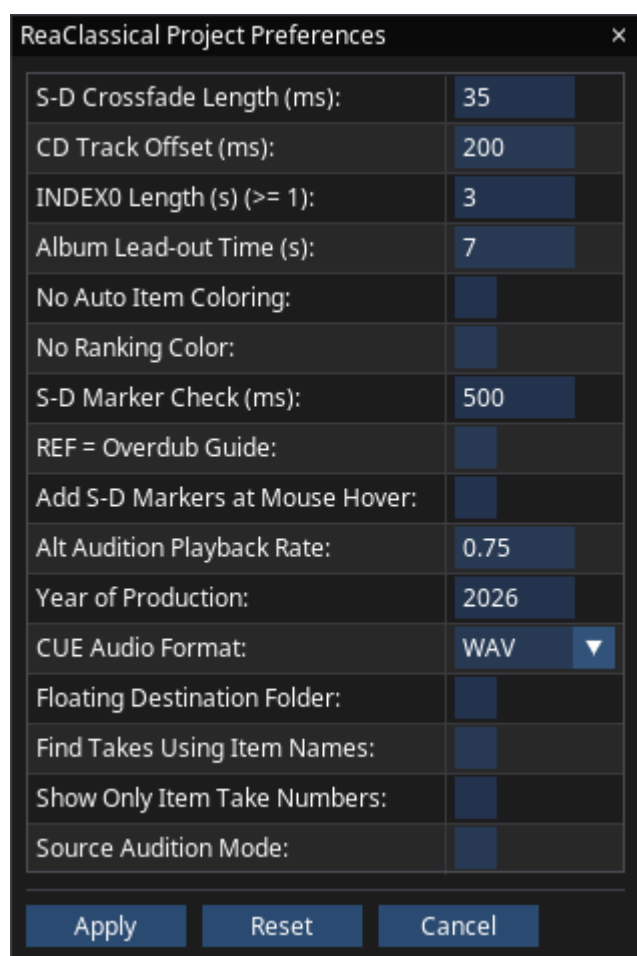
ReaClassical has the ability to import any REAPER project (available in the top ReaClassical menu via **Project Setup › Convert REAPER Project**). Because of the dizzying amount of custom routing and folder hierachy that is possible inside a standard REAPER project, the following occurs during conversion:

1. A new project tab is created and **\_converted** suffix added to the RPP file
2. Any folders are flattened
3. Any empty tracks are deleted
4. A single folder is formed in preparation for a horizontal workflow
5. Any effects are moved to the relevant mixer tracks
6. Any custom routing is removed

At this point, a horizontal workflow is set up and all that is left for the engineer to do is recreate any custom routing using Mission Control. For example, if the original REAPER project used folders to organize orchestral section microphone channels, this would be recreated by clicking on the appropriate routing buttons to disconnect from RCMaster and instead route to one or more newly-created submix tracks.

# ReaClassical Preferences

Open via **F5** or via Mission Control **C**. Here is a brief description for each one:



Setting	Value
S-D Crossfade Length (ms):	35
CD Track Offset (ms):	200
INDEX0 Length (s) (>= 1):	3
Album Lead-out Time (s):	7
No Auto Item Coloring:	<input type="checkbox"/>
No Ranking Color:	<input type="checkbox"/>
S-D Marker Check (ms):	500
REF = Overdub Guide:	<input type="checkbox"/>
Add S-D Markers at Mouse Hover:	<input type="checkbox"/>
Alt Audition Playback Rate:	0.75
Year of Production:	2026
CUE Audio Format:	WAV ▼
Floating Destination Folder:	<input type="checkbox"/>
Find Takes Using Item Names:	<input type="checkbox"/>
Show Only Item Take Numbers:	<input type="checkbox"/>
Source Audition Mode:	<input type="checkbox"/>

Buttons: Apply, Reset, Cancel

Figure 3. ReaClassical Preferences

## S-D Crossfade Length (ms)

The xfade length for all S-D edit functions. Default = 35ms.

## CD Track Offset (ms)

The negative offset where CD markers are placed to the left of item starts. This is really for old CD players that could not process quick enough and skipped the start of audio. Default = 200ms.

## INDEX0 Length (s) (>= 1)

If you add an exclamation mark to your CD track name in the metadata editor window, a countdown of this set length will visually appear on some CD Players. Default = 3 seconds.

## Album Lead-out Time (s)

The amount of silence automatically set at the end of the album. Default = 7 seconds.

## No Auto Item Coloring

To remove all automatic coloring of items, set to checked. You can still color items manually via the Colorize function **K** or add ranking colors via Record Panel or Notes. Default = unchecked.

## No Ranking Color

To remove all ranking colors, set to checked. You can still color items manually via the Colorize function **K**. Default = unchecked.

## S-D Marker Check (ms)

When placing destination markers, a check occurs to see if the marker would be placed close to an existing crossfade. This prevents unnecessary "sliver" edits. Set to 0 to disable. Default = 500ms.

## REF = Overdub Guide

By default, the reference track acts as a way to A/B project material with an external reference audio file. To use as an overdub track see [Overdub Recording](#). Default = unchecked.

## Add S-D Markers at Mouse Hover

To avoid needing the track to be selected before placing S-D markers, set to checked. This also allows for opening the fade editor **F** by hover. Default = unchecked.

## Alt Audition Playback Rate

The playrate used when using **Shift** + **A** etc. Default = x0.75.

## Year of Production

Default = The year the project was created.

## CUE Audio Format

The audio format that will be rendered to pair with the CUE file. Default = WAV.

## Floating Destination Folder

For users who wish to always use the top folder as destination, this visually moves the destination folder just above the placement of source markers, making working in vertical workflow even easier without need for manual vertical scrolling. Note that when checked, the new S-D editing anywhere to anywhere is disabled and destination markers are always associated with the first folder. Default = unchecked.

## Find Takes Using Item Names

If the audio material was not recorded in ReaClassical and the filenaming does not include a take number as a suffix, you can find takes based on item names instead by checking the option. Default = unchecked.

## Show Only Item Take Numbers

By default, the item names show both session name (if present) and take numbers. For quicker visual location, set to checked to only show padded take numbers. Default = unchecked.

## Source Audition Mode

By default, when setting source in and out markers, any previously existing ones are deleted. To convert previous pairs to take marker "regions" for use in the source audition manager **Z**, set to checked. Default = unchecked.

# Too Long; Didn't Read

I highly encourage the user to read the full [Workflows](#) documentation for the best chance of becoming an expert in ReaClassical. However, if time is short and you have an upcoming project for which you need to learn just enough to become dangerous, read the following quick workflow summaries.

## Create a ReaClassical project

If not done already, create a new reaClassical project via **Ctrl + N**. The number of tracks should equal the combined number of stereo and mono microphone channels. If in doubt, pick a *horizontal* workflow.

## Quick Setup

1. Open Mission Control via **C**
2. Name your tracks. Use suffixes like "left", "R", "Pair" etc so the automatic record input button can make intelligent decisions
3. If planning to record, manually or automatically set your record inputs

### IMPORTANT

Save your project before continuing with other workflows.

## Recording

1. Open ReaClassical Record Panel via **Ctrl + Enter**. Optionally set a session name by right-clicking on the window.
2. Select a parent track of a folder
3. Press Arm and monitor your signal
4. Use the left-most buttons in the panel to control recording, pausing and stopping
5. Add ranking and notes while recording or after the fact
6. Once all recording is completed, close the record panel (automatically disengages record-armed tracks).

## Importing

While it is always better to record in ReaClassical, occasionally you might need to use audio recorded by other engineers who used a different DAW.

### Smart Import

Assuming that the filenames contain at least a track name and take number separated by underscore e.g. **cello\_004.wav** or **cello\_T004.wav**:

1. Ensure that you have first created an empty horizontal or vertical workflow ReaClassical project.

2. Copy or move source material into the media subfolder inside your ReaClassical project folder (or custom recording/import path set via Mission Control **C**).
3. Ensure that track names in the project match the channel text in the filenames
4. If your filenames also contain a session name prior to the track name, the items will be grouped accordingly.
5. Via the top ReaClassical menu, click on **Project Setup** > **Smart Audio Import** and, if using vertical workflow, choose distribution options.
6. Open Mission Control to add special tracks such as aux & submix, make routing adjustments etc.

### Manual Import by Dragging

1. In your source folder, select items that should be aligned vertically (for example, every channel for particular take) and drag into the ReaClassical project being sure to drop onto one of the folders created by ReaClassical with a track count that matches the number of files you selected. Choose the option "Same time position on separate tracks"
2. Continue as above for each take
3. Open Mission Control **C** to add special tracks such as aux & submix, make routing adjustments etc.

### Auditioning

Audition your material via mouse hover + **A** on parent or child tracks. Use mixer mute and solo buttons to further customize what you hear.

### Editing

1. Set destination IN and OUT markers via **1** and **2**
2. Set source IN and OUT markers via **3** and **4**
3. Press **5** to make the source-destination edit (2-, 3- or 4-point edit depending on how many markers you set), or **F4** to make a time-stretched S-D edit (requires all 4 markers), or if only using destination IN marker and both source markers, **F3** for an "assembly" or 3-point "insert" edit
4. To finesse the edit, click on the right item of a crossfade pair and press **F**

### Mixing

1. Add FX, change routing, and optionally adjust volume, panning etc via Mission Control **C**
2. Open Mixing Snapshot Manager via **Shift + M**
3. Create automatically-recalled mixer snapshots at edit cursor or inside time selection
4. Add automation to destination or source folders via time selection + **I**

### Mastering

1. Choose a folder to be the basis of an album (you can create multi-disc productions!)

2. Remove all names from items on the parent track aside from those you want to be track starts.  
You can clear all items on the folder track via **Ctrl** + **T**
3. Enter track start names via the Notes window **N**
4. Press **Y** to open the metadata editor

## Rendering

1. Press **R** to open the REAPER render dialog
2. Select an option from **Presets** › **All Settings**
3. Make any tweaks to dither, post-processing etc. and press **[ Render ]**. Alternatively first press **[ Dry Run ]** to quickly evaluate loudness and peak values.

# Workflows

Once you are familiar with the basics of REAPER and have set up your first ReaClassical project, if you don't have a lot of time before your first project, read [Too Long; Didn't Read](#). Otherwise, it's time to dive deeper into what is possible with ReaClassical.

## Recording

Now that you have decided on a workflow, we can start recording!

### Manually Setting Inputs

Use Mission Control **C** to set recording inputs and panning manually or automatically based on track name. For automatic assignment, add text like "Left", "R", "Pair", "2ch" etc. as a suffix and press **[ Auto Rec Inputs ]**.

### Easy Steps to Record

1. Open ReaClassical Record Panel via **Ctrl** + **Enter**. Optionally set a session name by right-clicking on the window.
2. Select a parent track of a folder
3. Press Arm and monitor your signal
4. Use the left-most buttons in the panel to control recording, pausing and stopping
5. Add ranking and notes while recording or after the fact
6. Once all recording is completed, close the record panel (automatically disengages record-armed tracks).

#### TIP

There's no real need to position the edit cursor before starting to record as the arm/record function will automatically move the recording start position to after the final item in the armed folder.

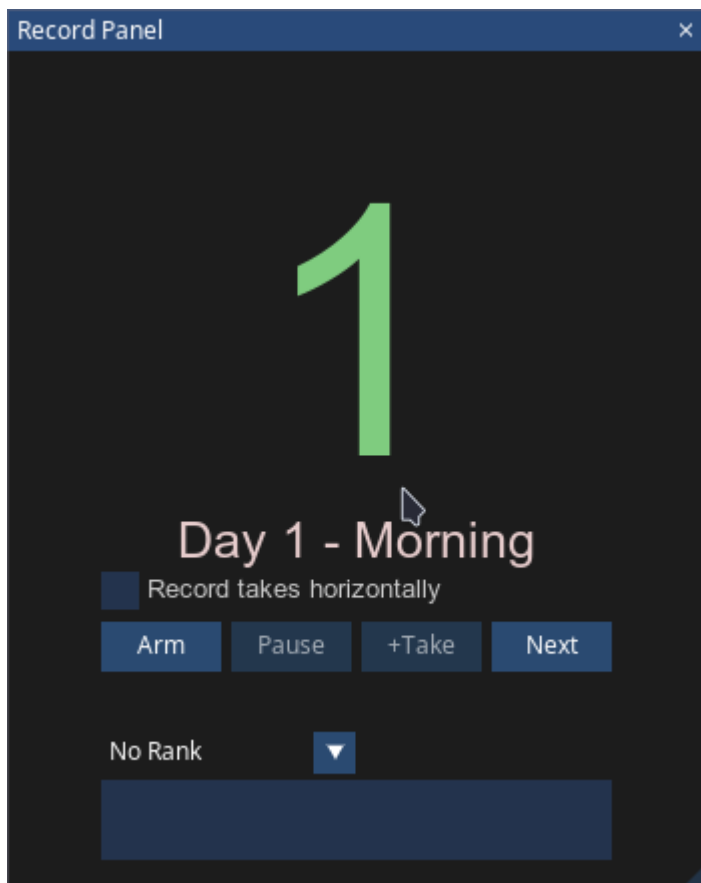


Figure 4. Record Panel

## Additional Notes on Record Panel

### Session Names and Take Numbers

Note that if you create a new session name, the take number will automatically be reset to 1. If you switch to an existing session name with recorded takes, the take number will be calculated accordingly.

### Ranking and Notes

During recording, any ranking or notes added will affect the item created immediately after recording finishes. When transport is stopped, if no items are selected, ranking and notes affect the last recorded items. Apply ranking and notes to previous items in the timeline by selecting them.

### Other Buttons and Options in the Main Window

Use [ **+Take** ] to quickly increase the take number (useful for a false start, for example). press [ **Next** ] to start a new recording section. This means that in vertical workflow the first source folder is rec-armed and in both workflows, the edit cursor is placed 5 seconds after the final item in the project.

Enable "Record Takes Horizontally" while in vertical workflow to record takes left to right on a single folder. This is useful, for example, if you prefer to have each folder contain takes for just one piece of music. In this instance, [ **Next** ] acts as a sort of carriage return and arms the next folder down as well as move the edit cursor to the start of the timeline (or after any existing material).



## Record Panel Right-Click Options

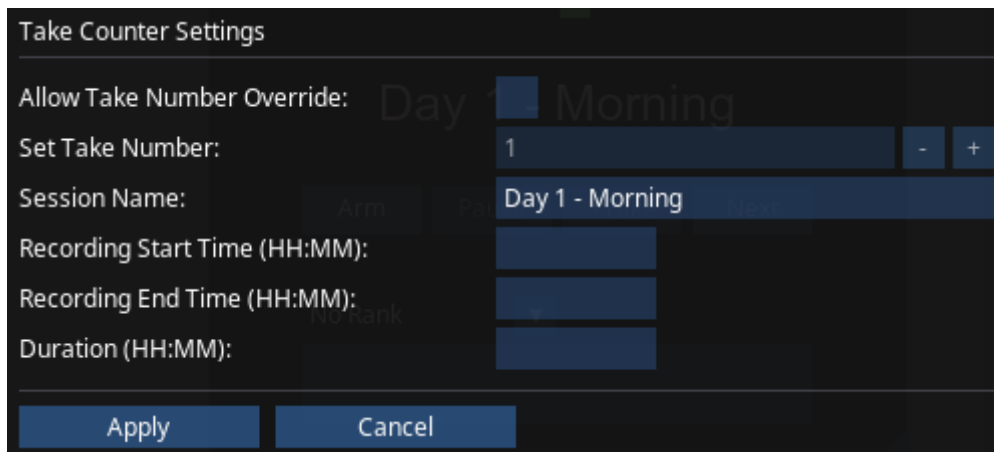


Figure 5. Record Panel Options

### Scheduled Recording

To start (and optionally end) a recording at specific times or manually start a recording to end at a certain time or after a certain duration, right-click on the Record Panel window and add the appropriate entry or entries in HH:MM format. After pressing **[ OK ]**, the Record Panel window will display information above the take number. If you enter a start or end time earlier or equal to the current time, the function will assume a next day schedule and will annotate the time with an asterisk (\*). Likewise, with both a start and end time, if the end time is earlier than or equal to start, it will assume a time 24 hours later. Don't forget to arm your tracks before walking away!

### Overriding Take Numbers

You shouldn't need to use this but there are cases where you might want to start a new ReaClassical project but continue from the previous day's last take number. To do so, check the "Allow Take Number Override" option and set a new take number. Note that it will not allow you to set a number lower than already used.

## Meterbridge

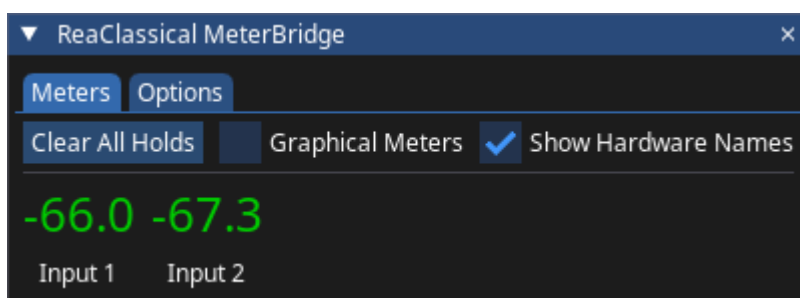


Figure 6. Meterbridge

Use **[ B ]** to open the Meterbridge. The default view shows numeric peak holds. When tracks are record-armed, the main window displays recording inputs. During auditioning of material, the top rows show mixer tracks and the bottom any special tracks including RCMaster and Master tracks.

To switch to graphical meters, check the "Graphical Meters" option. Under the options tab, you can set color thresholds for yellow and red. To switch to channel numbers instead of hardware names, uncheck the option while tracks are rec-armed.

## Recording Indicator



Figure 7. Recording Indicator

The recording indicator **Alt** + **R** is designed to be placed on a secondary monitor full screen so in situations where engineers are located in a separate control room, musicians are aware of when recording is active. Right-click to set custom colors for offline, standby, recording and pause.

## Live Bounce

To record the rough balanced mix as a stereo file at the same time as individual channels, add a live bounce track via Mission Control. Note that this is only available in a horizontal workflow given the necessity to record left-to-right on the time line to align with the folder recording.

## Listenback

To hear verbal feedback from a musician far away from the recording setup (for example, an organist in a loft), add a listenback track via Mission Control. Set the desired input channel via the dropdown. Monitoring will automatically mute during playback and recording. To set monitoring to always on, open the FX panel on the listenback track and set the dropdown in the monitoring JSFX to "Always On".

## Splitting items into subtakes

To split a selected item into numbered subtakes, add generic markers via **M** at the desired locations and press **Shift** + **S** to split. Add named markers via **Ctrl** + **M** to use those names instead of subtake numbering.

## Headroom

Again, I refer you to the books on classical music production but in general I suggest aiming for around -12dB peaks on the meters. 24-bit recording allows for a lot of headroom so there's no need to push close to 0dB. Adjust the individual mixer track faders to balance. When using a 32-bit float device with dual AD converters as an interface (such as the Zoom F-series), ensure that the recording file format is switched to 32-bit float via project preferences **P**. The recorded levels might seem too low or too high during recording, but they can be easily adjusted afterward in ReaClassical without introducing any extra noise or distortion.

## Recording Safety

When using the Record Panel for recording (essential!), there is increased safety when using classical take recording via the automatic switch to a restricted set of keyboard shortcuts. In addition to using the record panel, you can also access various non-disruptive functions like zooming.

## Overdub Recording

To record additional material after the fact (say a separate narration track or an organ part in a church after the main recording session in a concert hall), edit the orchestral material as usual and use a mixdown as a guide track in a new project (or new project tab). To achieve this, use a vertical workflow (convert if necessary via Mission Control **C**), add a Reference track also via Mission Control and set the ReaClassical Project Preferences option **REF = Overdub Guide** to checked (**F5**). With this setting, audio on the guide track will be audible during take recording and auditioning of folders. Use Classical Take Recording via the Record Panel as normal. You can then S-D edit and mix the overdub material to fit with the orchestral mixdown or, if further mixing and mastering work is required on the original multi-track material, bring the organ part into that project as a new track in the folders (see below).

## Manipulating Tracks During a Recording Session

### Disabling Channels

In a typical recording session, the musicians with the least to record are often allowed to leave the session early once their work is completed. If they were individually recorded using a spot microphone, it wouldn't make sense to continue recording on that channel. The ReaClassical way, both easy and visually obvious, is to open Mission Control **C** and check "Rec Disabled" for the particular channel(s). When arming and recording, these channels will now be excluded. This allows the user to maintain hardware connections that were originally set up with the ability to quickly bring the microphone back in as required.

### Adding a New Microphone Mid-Recording Session

You can add a track to all folders in the project at once via Mission Control. It will prompt you for a name and then add a new track with that name to the end of each folder. This also works for a single folder while working in a horizontal workflow.

### Deleting tracks

In both horizontal and vertical workflows, you can use Mission Control to quickly delete child tracks from all folders of the project.

### Re-ordering tracks

In both horizontal and vertical workflows, you can re-order the mixer tracks by selecting the track in Mission Control and using the arrow buttons. This also moves all audio and assigned recording inputs.

## Audio Calculator

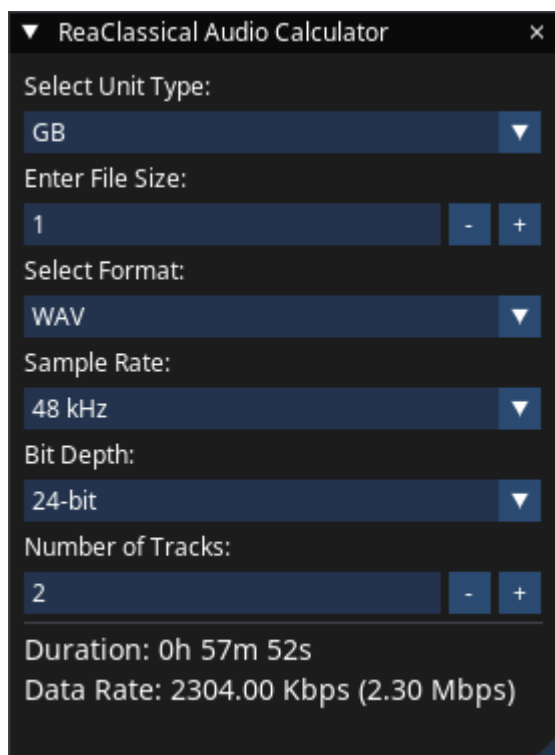
The image shows a software window titled "ReaClassical Audio Calculator" with a close button (X) in the top right corner. The window has a dark theme. It contains several settings: "Select Unit Type:" with a dropdown menu showing "GB"; "Enter File Size:" with a text input field containing "1" and minus/plus buttons; "Select Format:" with a dropdown menu showing "WAV"; "Sample Rate:" with a dropdown menu showing "48 kHz"; "Bit Depth:" with a dropdown menu showing "24-bit"; and "Number of Tracks:" with a text input field containing "2" and minus/plus buttons. At the bottom, it displays "Duration: 0h 57m 52s" and "Data Rate: 2304.00 Kbps (2.30 Mbps)".

Figure 8. Audio Calculator

To figure out required disk space for a duration of audio or vice versa to figure out maximum duration of audio you can record based on available disk space, use **Shift + H** to open a calculator. You can set units, channel count, samplerate, bit depth and format (WAV or MP3 at various bitrates).

## Importing

While it is always better to record in ReaClassical for traditional recording sessions, you may prefer using a portable recorder for live performances. Further, you might need to import audio recorded by other engineers who used a different DAW.

### Importing Audio from a Portable Recorder

If you use a portable recorder such as a MixPre, you might have a multi-channel combined file. ReaClassical includes a special function for converting these into a stereo pair + mono track set. Import your multi-channel media using a single regular track (for a horizontal workflow) or multiple regular tracks (for a vertical workflow). Press **F10** (no need to select the items). Answer **[yes]** to the prompt that appears if the first two channels should be treated as stereo interleaved (i.e. they represent your main pair). Depending on the choice made, the number of tracks in the resulting folder(s) will adjust accordingly. You are then given the opportunity to name your tracks in Mission Control. Obviously if you decide to move to a vertical workflow after exploding using a single track, you can always use Mission Control to convert. If you need to bring in new takes after running this function, simply open an empty project tab, import additional media then run the function there. Afterwards, copy or cut the exploded items into the original project tab to the desired locations.

## Smart Import

Ensure that all your files comply with one of the following patterns (where x represents a digit):

- `sessionname_trackname_Txxx.wav`
- `sessionname_trackname_xxx.wav`
- `trackname_Txx.wav`
- `trackname_xxx.wav`

The take number should always be positioned just before the file extension. The "T" (for take) and any zero-padding are optional but there should always be at least a preceding underscore.

Examples of good filenames include:

- `morning_cello_012.wav` (where session is "morning", track name will match "cello" and represents take 12)
- `harpsichord_T4.flac` (no session name, track name will match "harpsichord" and represents take 4)


Examples of bad filenames include:

- `005.wav` (no trackname)
- `violin56.wav` (no underscore before take name)
- `Day1Mozart_67.wav` (no underscore between session and track name)

### IMPORTANT

Don't skip this renaming step if you want to import files easily from another DAW! Manual import by dragging in material can be time-consuming and may not allow you to use functions like searching by take number.

Assuming that the filenames now contain at least a track name and take number separated by underscore:

1. Ensure that you have first created an empty horizontal or vertical workflow ReaClassical project.
2. Copy or move source material into the media subfolder inside your ReaClassical project folder (you can also assign a custom import/recording path via Mission Control .
3. Ensure that track names in the project match the channel text in the filenames
4. If your filenames also contain a session name prior to the track name, the items will be grouped accordingly.
5. Via the top ReaClassical menu, click on **Project Setup** › **Smart Audio Import** and, if using vertical workflow, choose distribution options.
6. Open Mission Control to add special tracks such as aux & submix, make routing adjustments etc.

### TIP

You can also "smart" import further material into a non-empty ReaClassical project! In this instance, the function will ignore source files already present and start the import

at the end of the project.

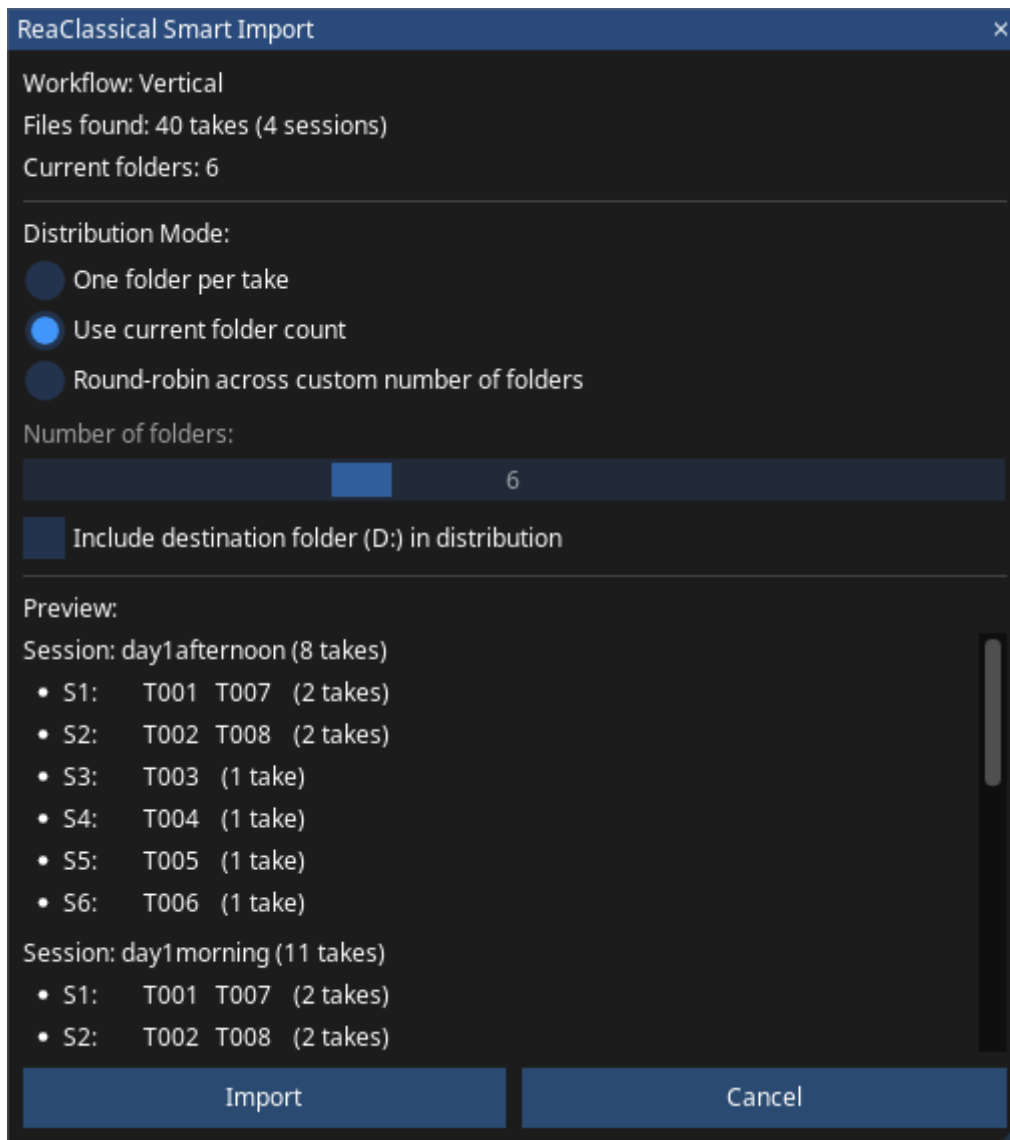



Figure 9. Smart Import

## Manual Import by Dragging

1. In your source folder, select items that should be aligned vertically (for example, every channel for particular take) and drag into the ReaClassical project being sure to drop onto one of the folders created by ReaClassical with a track count that matches the number of files you selected. Choose the option "Same time position on separate tracks"
2. Continue as above for each take
3. Open Mission Control  to add special tracks such as aux & submix, make routing adjustments etc.

## Navigating a Project

In addition to built-in REAPER functions, ReaClassical uses a series of shortcuts to help you easily navigate your classical project. Important: I always make some dedicated time post-recording to get an overview of the recorded material, tidy up the digital notes I took during the session and

perform a backup on an external drive as soon as possible.

## Whole Project

Use **Ctrl** + **Alt** + **→** to see the whole project horizontally and/or **Ctrl** + **Alt** + **⏮** to see everything vertically. If you want to zoom both horizontally and vertically at the same time, use **`** (backtick). You can also go to the start or end of the project by pressing the **Home** or **End** key respectively.

## Finding Takes

Use **Enter** on the main keyboard or numpad to quickly search for a take based on the underlying filename of the media item. This will work for any file-naming system that uses numbers before the file extension such as *main\_pair-T04.wav*, *cello-spot-take\_23.flac* or even *ortf\_pair(04).wav* such as created by Presonus Studio One. Note that if the imported or recorded files have zero-padding that is not a problem. If you have used an item to create an S-D edit, searching for a take will ignore these items and move directly to the original sources.

In **F5** preferences, you can set to search by item name instead. In the ReaClassical Notes app **N**, you can override and reset take numbers. These take priority in the search.

## Jump to Time

Press **TAB** to jump to a specific absolute or relative time using right-aligned logic, similar to video editing applications. This can be an absolute time within the project or an relative position inside a selected item or a set of consecutive crossfaded items. Prefix with + or - to make relative jumps. Once you get the hang of using this input logic, moving to any position is extremely quick!

### Some Right-Aligned Logic Examples:

Input	Meaning (based on project frame rate)
100524	Move to absolute position 10m 5s 24f
1141711	Move to absolute position 1h 14m 17s 11f
+8	Jump forward by 8 frames
-1015	Jump backward by 10s 15f
+23000	Jump forward by 2m 30s (and 0 frames)

## Items & Markers

You can easily shuffle back and forth between item edges by using the **Q** and **W** keys. You can move between markers by using the **,** and **.** keys (by design given on my keyboard they are the same keys that have **<** and **>**).

## Parents & Children

ReaClassical can hide or show children of track folders. This means that editing multi-track classical

music can be as easy as editing a stereo track. Making an edit to the parent track automatically makes the same one to all the children too. To show hidden children select the parent track and press **D** (for *display*). To hide, select the parent track and press **E** (for *ensconce*). The other benefit is that a whole set of takes can be displayed vertically in the main editing window without too much effort.

## Peaks Display

To adjust the visual zoom of wave peaks, use **Ctrl** + **0** and **Ctrl** + **1**. This is purely visual and allows for easier editing of quieter sections.

## ReaClassical S-D Editing Toolbar

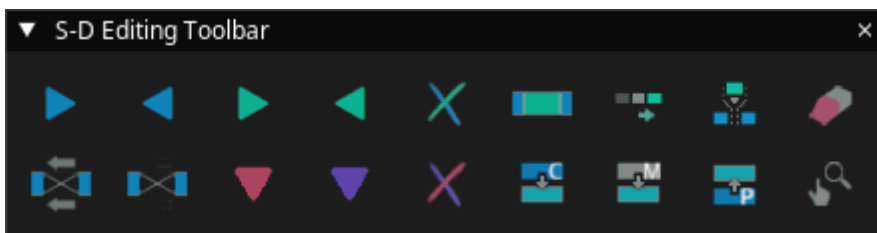


Figure 10. S-D Editing Toolbar

While I designed ReaClassical to be used efficiently with keyboard shortcuts, there is a custom S-D editing toolbar for those that prefer it. However I do highly recommend learning the key strokes as you will find your editing speeds improve dramatically. The floating toolbar can be opened via **F6** but will automatically open once when you start source-destination editing. Right-click to set a different icon layout and/or zoom.

Hover over the icons to discover what is available.

## ReaClassical Top Menu

At the top of the arrange window, you will see a dedicated ReaClassical menu (in between **Options** and **Extensions**). While not intended to be used as the primary way of running ReaClassical functions, it is an organized way of discovering the individual available functions and learning the keyboard shortcuts.

## Summary of Track Types in ReaClassical

While some of these will be covered later in the manual, it is useful to give a summary of track types you can currently use in ReaClassical. First, we have the *regular* folder or folder of tracks shown in the arrange window. These are where you record or import takes. Second, we have the mixer tracks designated via **M:** prefix. These tracks shown only in the mixer are where you adjust the usual track controls such as names, pan, volume, phase, add FX etc. Their names are synced across the project via when added or renamed via Mission Control. Third, we have aux busses designated via **@** prefix. You can route mixer tracks to these to use as a reverb bus etc. Fourth, we have submix busses designated via **#** prefix. You can route mixer tracks to these as a way to collect together microphones from the same orchestral section etc. Fifth, we have a dedicated room tone track where you can place recorded or generated room tone (more on this in the mastering section). Sixth, we have the *RCMASTER* bus which leads directly to the master REAPER bus. Here



you can gain stage into the master bus, add FX etc. Seventh, we have reference tracks which lie outside of the RCMaster structure thereby allowing the user to quickly make comparisons with other imported material via the audition shortcuts. Next, have the possibility of a live bounce track. This also lies outside of the RCMaster structure and is a way to capture a live stereo mix from the RCMaster track.

**NOTE** | Live bounce tracks are only available when recording in a horizontal workflow.

Next, another track outside of the RCMaster structure is the listenback track. This is a way to monitor musicians, conductors, producers etc who might be far away and need to communicate with the recording engineer via a microphone channel. Finally, the master bus itself where again you can set final levels, add FX etc. As mentioned elsewhere, try not to delete the mixer tracks or RCMaster. But, even if you do by accident, open Mission Control **C** to recreate them.

**IMPORTANT** | A reminder to do all track management in Mission Control!

## Project Management

### Statistics

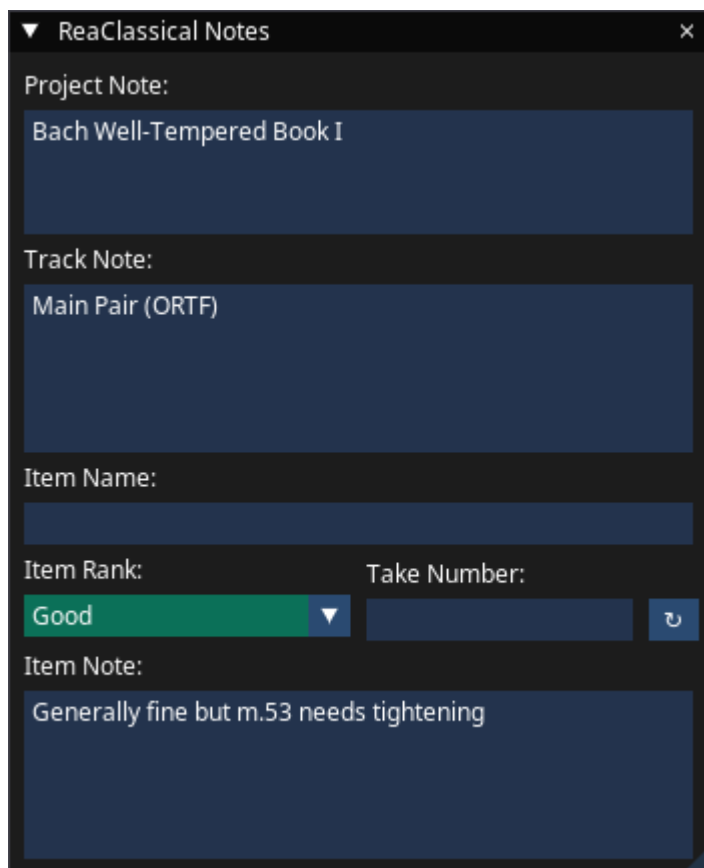


Figure 11. Statistics

For a complete set of statistics on the ReaClassical project, either for your own information or to assist with billing a client, go to **ReaClassical > Utilities > Show Statistics** or use the shortcut **F1**. For example, you might have a billing system that charges clients based on number of source-

destination edits, or mixing/mastering based on the final length of the album. Information includes: final album length, number of CD markers, project age, total project length, total length of source material, total number of items, number of track folders, number of tracks per folder, number of *special* tracks, number of regions, number of destination S-D edits, number of destination item splits, FX count and number of automation lanes.

## Typing Notes



The screenshot shows the 'ReaClassical Notes' window with the following fields and values:

- Project Note:** Bach Well-Tempered Book I
- Track Note:** Main Pair (ORTF)
- Item Name:** (empty text field)
- Item Rank:** Good (selected from a dropdown menu)
- Take Number:** (empty text field with a refresh icon)
- Item Note:** Generally fine but m.53 needs tightening

Figure 12. ReaClassical Notes

Add project, track, item notes and item ranking using ReaClassical's Notes window **N**. The window can also be used to name or rename items.

## Manually Coloring Items

Use the Colorize function **K** to set a custom color (or remove it) for all items in group.

## Folder Structure

ReaClassical defaults to placing media and exports into appropriately subfolders making project file navigation easier. Also, ReaClassical defaults to separate folders for automatic backups and auto-saves.

## Automatic Backups

REAPER allows for powerful and complex backup routines. ReaClassical defaults to 10 time-stamped backups and 10 auto-saves every 15 minutes when not recording. Feel free to modify for your own way of working including switching to backups and auto saves for a number of unique

days.

## Cleaning

If in doubt, keep everything! Otherwise, the **File › Clean current project directory** is an excellent way to reduce the size of your projects. Note that when assigning a session name via the Record Panel Window, currently the above REAPER menu item doesn't search recursively. In a way, this reduces the chances of accidentally deleting precious takes. You can always manually delete but, from experience, it is *much* better to simply keep everything.

## Archiving

There are various ways to archive classical music projects. First, you can access the Project Bay by **Ctrl + B** shortcut. You can then ensure that all media used in the project is contained within the project folder itself. If not, you can select as many as necessary, right click and move/copy into the project folder. After this, you can simply compress the folder as a zip and store on an external drive. A further step to guaranteeing ability to open in the future is to freeze tracks so that plugin effects are baked in (with ability to unfreeze later if possible). Alternatively you can save a copy of the project via **File › Save project as...**, converting to a format like FLAC and trimming the media as you wish. Finally, one to look out for in the future is [Project Archiver](#). However, I don't believe it is quite ready for prime-time yet and recommend using one of the other methods for now.

## Auditioning (Playback)

Audition your material via mouse hover + **A** on parent or child tracks. Use hover + **Shift + A** to playback at a custom rate set via ReaClassical Preferences **F5**. Use mixer mute and solo buttons to further customize what you hear.

Hover over a reference track for easy A/Bing between your audio production and one or more reference audio files.

### TIP

To quickly remove all record-arming in the project, use mouse hover + **A** or close the Record Panel.

## Auto Solo and Auto Arm on Mouse Click

Included with ReaClassical is an "Auto Solo" function that can be assigned to several actions under the mouse modifiers menu (accessed via **O**). This is not currently set by default. Assigning the function to both "media item" and "track" left-click will provide auto-solo when clicking on items and gaps (technically unmuting the selected folder and muting the rest). If there are currently any record-armed tracks, it will also serve to auto rec-arm the clicked folder.

## Editing

In ReaClassical 26 and following, source-destination editing is truly anywhere to anywhere. This means you can place your source and destination marker pairs on *any* folder. It opens the door to multi-disc album projects and more!

## Preparing Takes

The Prepare Takes function is essential when working with imported material. Additionally, some projects also arrive with items that have been individually top-and-tailed to remove silence. In this case, items may look aligned musically, but standard REAPER no longer understands them as belonging together. Prepare Takes fixes this by ensuring all related audio behaves as a single logical unit when dragging, adjusting item starts, ends fades etc. In addition, certain advanced ReaClassical functions like healing edits, rely on correct item grouping.

### IMPORTANT

Once all your takes are in the project, run Prepare Takes before starting to work with your audio.

Prepare Takes is intelligent enough to figure out which workflow you are using. Just press **T** (for *Takes*) or press the dedicated button in Mission Control. Every item comprising the same take are now grouped together no matter whether they share a common item start or end time.

### TIP

Prepare Takes will automatically run on placing the first S-D marker in the project if it hasn't already been run once.

## Editing Step-by-Step

Ensure that the folder where you want to place the marker pair is selected. The best way to do this is to click on the item where you want the marker. Note that in **F5** preferences you can set placement at mouse hover meaning that the desired folder is chosen based on hover position.

1. Set destination IN and OUT markers via **1** and **2**
2. Set source IN and OUT markers via **3** and **4**
3. Press **5** to make the source-destination edit (2-, 3- or 4-point edit depending on how many markers you set), or **F4** to make a time-stretched S-D edit (requires all 4 markers), or if only using destination IN marker and both source markers, **F3** for an "assembly" or 3-point "insert" edit
4. To finesse the edit, click on the right item of a crossfade pair and press **F**

## Crossfade Editor

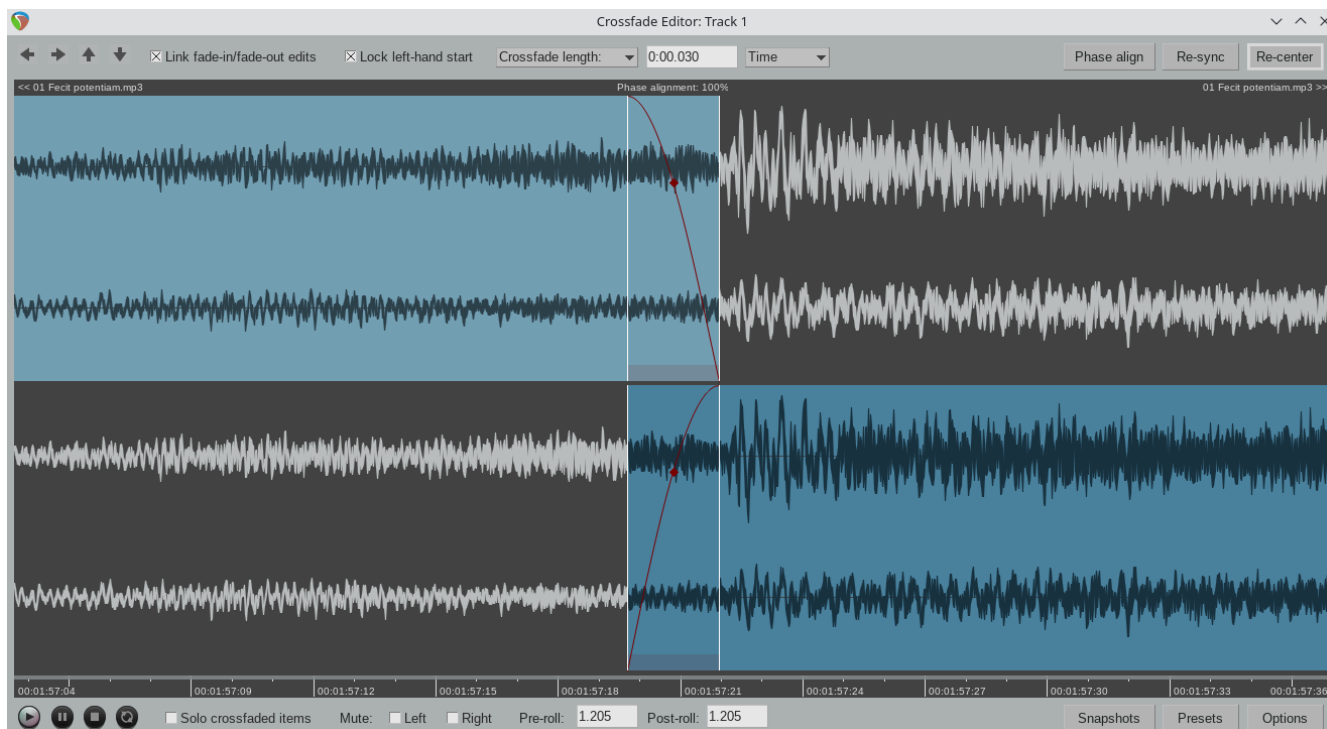


Figure 13. Crossfade Editor

Since v7.40, REAPER includes an excellent professional two-lane crossfade editor similar in nature to the specialist classical DAWs such as Sequoia and Pyramix. With the improved crossfade editor, users can see the continued "ghost" waveforms of the items beyond the crossfade they enter and likewise the previous waveforms of the items that exit the crossfade. The ability to visually align transients and then position the crossfade just before it is absolutely critical (and fun when you have the tools to do it!). Select the right-hand item of a fade (or hover over the item if **Add S-D Markers at Mouse Hover** is set to checked in ReaClassical Project Preferences **F5**), press **F** and you are moved into crossfade editor mode. Note also that you are automatically centered on the crossfade and can use the mouse wheel to zoom in and out. Press **F** again and you exit that mode.

So, now you are in the crossfade editor mode, my own preferred method of getting the perfect crossfade is to move the transient I want on the left (upper) item to just after the crossfade by dragging on the ghost waveform. Then I drag the "ghost" waveform of my right (lower) item so that the two transients align. That's it! Drag on the active part of the waveform to also move the location of the crossfade. You can just move or resize the crossfade by hovering directly over the lower portion of the crossfade and dragging either the edge or the shaded rectangle. Be aware that markers are not rippled in ripple-per-track mode (but with the introduction of the Create CD Markers, I highly recommend not bothering to create any markers at this point).

In reality, this process can be just a few seconds to achieve the perfect edit. To ensure that previous xfades are unaffected, make sure that *Lock left-hand start* is checked:

To audition material, hover the mouse inside the crossfade window and:

1. press **A** to audition the crossfade with mirrored pre/post roll based on mouse cursor location
2. press **S** to audition just the left item based on mouse cursor location or its mirrored position
3. press **D** to audition just the right item based on mouse cursor location or its mirrored position
4. press **E** to audition just the top lane based on mouse cursor location or its mirrored position

5. press **C** to audition just the bottom lane based on mouse cursor location or its mirrored position

Use **Shift + A**, **Shift + S** or **Shift + D** to do the equivalent but with a custom playrate as set in **F5** preferences.

You can shuttle between crossfades using the **Q** and **W** shortcuts. Please see the REAPER manual for more details of what is possible including phase alignment and various view options.

## Source Audition Manager

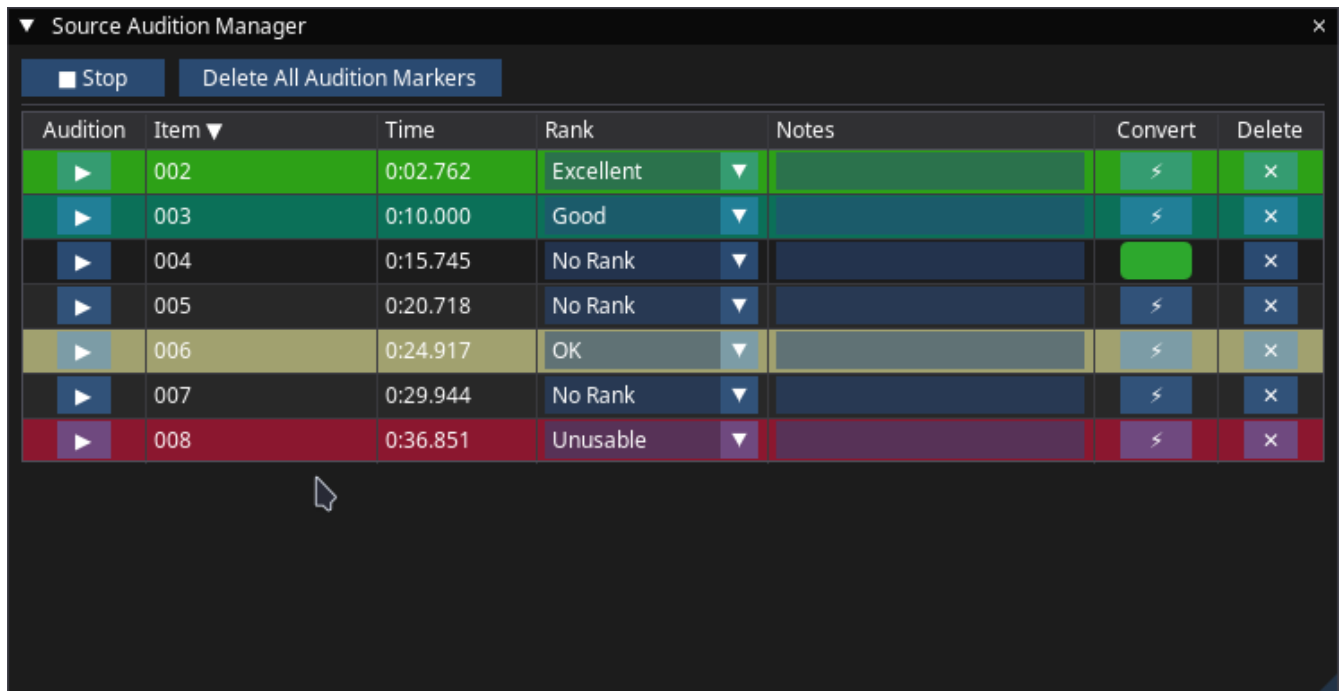


Figure 14. Source Audition Manager

When making a source-destination edit, you may not have a list or annotated score from the musicians or producer showing preferred edits. If the decision is left to the audio engineer, this process is now very straightforward in ReaClassical 26. First set the source audition mode to checked in **F5** preferences. Then, open the Source Audition Manager via Mission Control or **Z** shortcut.

To set up all the source audition pairs, set multiple sets of source in and out markers. You will note that when you start to add a second pair, the source markers are transformed into a take marker "region". The only limitation is that you can only have a single take marker region set per item. This allows the user to quickly reposition the S-D markers by simply setting new ones. If your recorded items each contain multiple passes of the same musical material, consider splitting them via the **S** shortcut.

Use the controls in the window to audition, rank and add notes. Once you have settled on a best take, press the convert button (or place edit cursor within a take marker region and press **Alt + Z**). Note, that any existing real source pair is converted to a take marker region. Assuming one or more destination markers are already set, you can press **5**, **F3** or **F4** to make the desired edit. Sometimes the suitability of source material is difficult to judge until it is heard with the surrounding destination material. Given that all source markers are stored as take marker regions if inactive, it allows the user to quickly undo an edit and switch to an alternative pair. During auditioning, you

can delete individual pairs via the **[X]** on the specific table row, as well as delete all source audition markers by clicking **[Delete All Audition Pairs]** or pressing **Alt + Delete**.

## Other Editing Tips

### Healing Edits

Select a "patch" edit (one involving all 4 markers over the top of of a best take, for example) and press **Ctrl + H** to heal the edit (restoring the underlying material without splits).

**TIP** This works at any point in the editing process and isn't restricted to the last edit made.

### Finding Source Material

The items representing a S-D edit are colored according to the source material. However, you can also easily locate source material by clicking on an edited item and pressing **Ctrl + F**. A color-coordinated source IN and OUT marker pair are placed at the source location and in vertical workflow mode, the associated folder is selected.

### Marking Edits on your Scores

This is best done using a physical, photocopied score by the conductor or lead musician. I advocate for a "T" system where a large T is inserted into the score at the intended edit point. Either side of the T stem, and under the crossbar, the outgoing and incoming take numbers are written. A wavy crossbar indicates some leeway for where the edit point can be placed. Further notes can be attached underneath the T such as directions for tightening the gap etc.



Figure 15. Editing a physical score

## Multi-Project Tab S-D Editing

If you'd like to S-D edit between various open project tabs you can set both the source and destination project markers via **Ctrl + Alt + 1** (or **Ctrl + Alt + 2**) for destination and **Ctrl + Alt + 3** (or **Ctrl + Alt + 4**) for source (essentially the same numbers associated with regular S-D markers). The markers can exist anywhere on the tab's timeline but perhaps the very beginning or end would be good to keep them out of the way. The S-D editing itself then works just as for a single tab other than any source markers that are set are not deleted to aid quickly undoing in the destination tab and being ready to reapply the edit. The only rule when using S-D project markers is to ensure that source or destination markers should be paired with the corresponding source or destination project marker. This workflow would, for example, allow you to have multiple project tabs (perhaps one for each symphony movement plus a final *destination* tab), allowing for both internal editing per tab but after setting the S-D project markers compiling the final edit in the *destination* tab. To delete all the S-D project markers press **Shift + Delete**. Also, in multi-tab S-D editing, when regular markers are placed, any other existing versions in other tabs are automatically deleted to ensure that only one version of the marker exists at a time across all open project tabs.

## Delete / Delete with Ripple

While perhaps not used as often as 3- and 4-point edits, I have created two functions for deletion of material. Delete & Ripple **Backspace** will delete the material between source IN and OUT markers and ripple material to the right backwards with a short crossfade. Delete Leaving Silence **Ctrl + Backspace** will also delete but maintain the silence without rippling backwards.

## Copy/Move Destination Material to Source

Run either the copy **Ctrl + Alt + C** or move **Ctrl + Alt + M** version of the function from the ReaClassical toolbar (no need to ensure the first track is selected) and the function will copy or move all items and edits from the destination folder directly below to a newly created source folder with Eastern Blue color for identification purposes. This allows for saving versions of finished edits either via iteration (*copying* so you can continue to make further edits) or fresh (*moving* so you can compile an alternate version of a best take from scratch). These different edits can then be easily auditioned via **A** the shortcut. This is similar to a Pyramix-style iterative editing method while still maintaining the destination folder as the uppermost folder.

## Promote Source to Destination

Select a source folder and press the "promote" icon in the toolbar or **Ctrl + Alt + P** to promote the source folder to the top "destination" position.

## Add S-D Markers to Edges of Item(s) or Time Selection

Used in combination with Delete / Delete with Ripple (**Ctrl + Backspace** / **Backspace**), you can quickly set both source markers to the edges of one or more selected items on a parent track or time selection via **F12**. This is a time-saver when dealing with potential *sliver* edits i.e. small unneeded leftover edits as a result of multiple rounds of zoomed-out S-D editing. Note that the built-in checks when manually placing destination markers should go some way to alleviating this issue which can easily go unnoticed in other classical music DAWs. Likewise you can use **Ctrl + F12** to set destination markers (selected items must be in the destination folder). Note that if using time selection for



placing source markers, as for S-D marker placement via **3** or **4**, make sure you first have the desired source folder track selected before pressing the shortcut (a good way to do this is to first click on the item involved). You may prefer to set both source and destination markers this way over the more traditional number key shortcuts acting as a sort of hybrid between S-D and razor editing. Also note that if both selected items and a time selection exist, the time selection takes precedence.

### Move / Zoom to S-D markers

To move to any existing S-D markers use **Ctrl + 1**, **Ctrl + 2**, **Ctrl + 3** or **Ctrl + 4**. To zoom to any of the S-D markers for more fine-grained placement, use **Alt + 1**, **Alt + 2**, **Alt + 3** or **Alt + 4**. If you have multi-tab S-D editing set up, these shortcuts will also automatically move focus to the correct project tab.

### Delete S-D markers

To delete all regular S-D markers, press **Ctrl + Delete**.

### Floating Destination Folder

The floating destination folder feature enhances vertical workflow efficiency by dynamically positioning the destination folder just above the selected source folder. This reduces unnecessary vertical scrolling when setting IN and OUT markers for destination and source folders that are far apart in the project. Additionally, this feature is fully compatible with mouse hover S-D editing and when setting source markers to item edges (**F12**).

To enable the floating destination folder, open ReaClassical Project Preferences (**F5**) and set the corresponding line to checked.

For example, with floating destination enabled, place a source IN marker (via **3**) on any source folder. The destination folder will reposition itself just above the selected source folder. Add the remaining S-D markers as required. Perform any S-D edits via **5**, **F4**, or **F3**. Select another source parent and place another marker (**3**). The destination folder will continue adjusting dynamically.

It is worth noting that if the destination folder moves above a source folder, the source marker track number correctly updates to reflect the new order.

To disable floating mode, re-open ReaClassical Project Preferences and set **Floating Destination Folder** unchecked. This will also automatically move the destination folder back to the top of the project.

### Razor Editing

Because of the potential for visual overlap of markers, I much prefer the REAPER razor edit functionality for vertical take work. It works a lot like the process shown in this [Pyramix video](#).

While Pyramix also has additional source-destination marker workflows, I couldn't help but feel that for professional ensembles that manage a high degree of tempo regularity between takes, this method can be extremely efficient. This isn't the document to introduce REAPER razor edits as there are plenty of resources online if you do a simple search. Here we are only concerning ourselves with creation of the razor area across all our pairs and spot mics (REAPER's default

shortcut is the rather uninspiring Alt+Right drag). Thankfully, it can become the default editing mode by selecting the razor edit mode on the main toolbar and left-click dragging.

# Mixing

## Mixing Scenes

1. Add FX, change routing, and optionally adjust volume, panning etc via Mission Control **C**
2. Open Mixer Snapshot Manager via **Shift + M**
3. Create automatically-recalled mixer snapshots tied to items.
4. Before rendering, convert to real automation lanes via **[ Convert to Automation ]**

### NOTE

If setting a snapshot tied to an unnamed item, the first part of the item's ID will be used as the identifier in the table row.

## Mixer Snapshot Manager in Detail

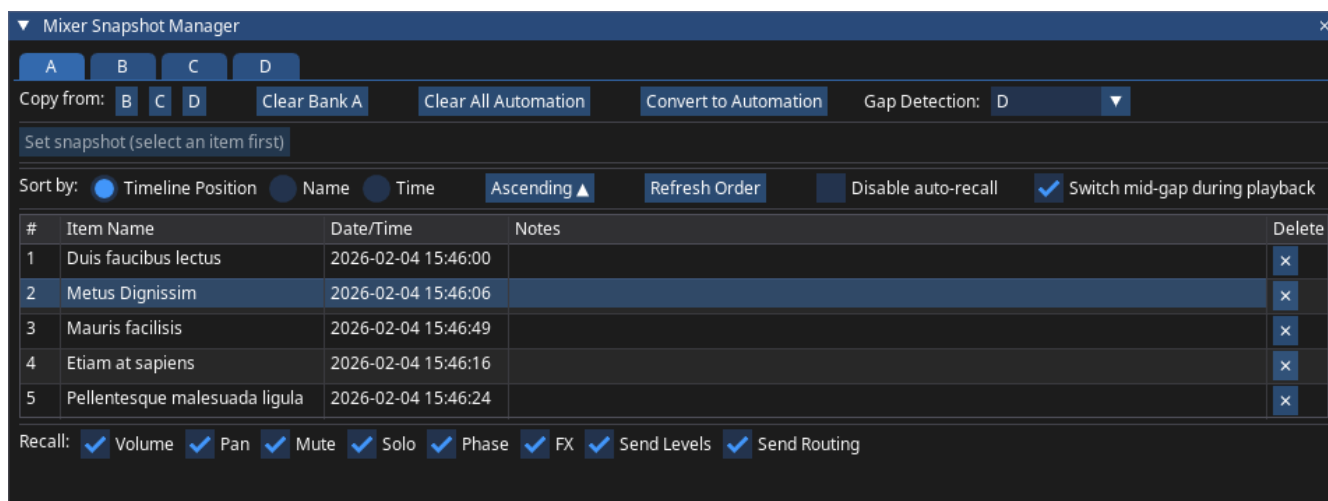


Figure 16. Mixer Snapshot Manager

## General Workflow

1. Click on an item that you want to be the start of a snapshot or mixer "scene"
2. Adjust any mixer parameter including fader, mute/solo, pan, FX parameters etc
3. Click **[ Set Snapshot... ]**.
4. To make changes, select the item or table row, tweak parameters and click the same button now re-labelled **[ Update Snapshot... ]**

By default, switching mixer scenes will happen in a gap in the project during playback. Disable auto recall to treat as a simple mixer snapshot tool that affects the whole project. Filter which parameters are recalled by unchecking boxes at the bottom of the window.

### IMPORTANT

For auto recall of mixer snapshots to work, the Mixer Snapshots Manager must remain open. However, once converted to real automation points, auto

recall within the window is disabled by design and the window can be optionally closed.

## Copying and Clearing Banks

The Mixer Snapshot Manager allows 4 independent banks of snapshots with ability to copy between banks and clear. This can be useful for multi-disc albums.

## Rendering

The snapshot manager window relies on real time playback for auto recall. For faster-than-realtime rendering, this will lead to unpredictable results. Therefore, at render time, it is advisable to convert to real automation data. To do so, press **[ Convert to Automation ]** and optionally set which folder to use for gap detection (the conversion will also respect the switching mid-gap checkbox). Mixer, aux and submix tracks with snapshot data will appear in the arrange window along with any active automation envelopes. If items connected to mixer snapshots are moved on the timeline as part of editing, click on the convert button again to get instantly updated automation data.

To clear automation and return to auto recall via the window while editing and mixing, press **[ Clear Automation ]**.

## Volume Automation

1. Ensure that a "Destination" or "Source" track is selected.
2. Position edit cursor or create a time selection and press **I**. Edit cursor mode affects the time line position and everything following. Time selection mode is limited to the time selection bounds.
3. Set volume level and optional ramp in/out lengths and click **[ Apply Automation ]**

## More Advanced Automation

Turn on advanced mode to gain access to all envelopes associated with the track including FX parameters. If you also need to automate various aspects of the mixer tracks or special tracks, first make them visible in the track control panel by checking the box on the desired track row in Mission Control. Use **I** as before.

## Editing Automation Items

Right-click on an automation item to edit middle value and optional ramp in and out values. You can adjust the positioning by left-click dragging on the item itself. Adjust the middle value length by alt/opt-click dragging on automation item edges.

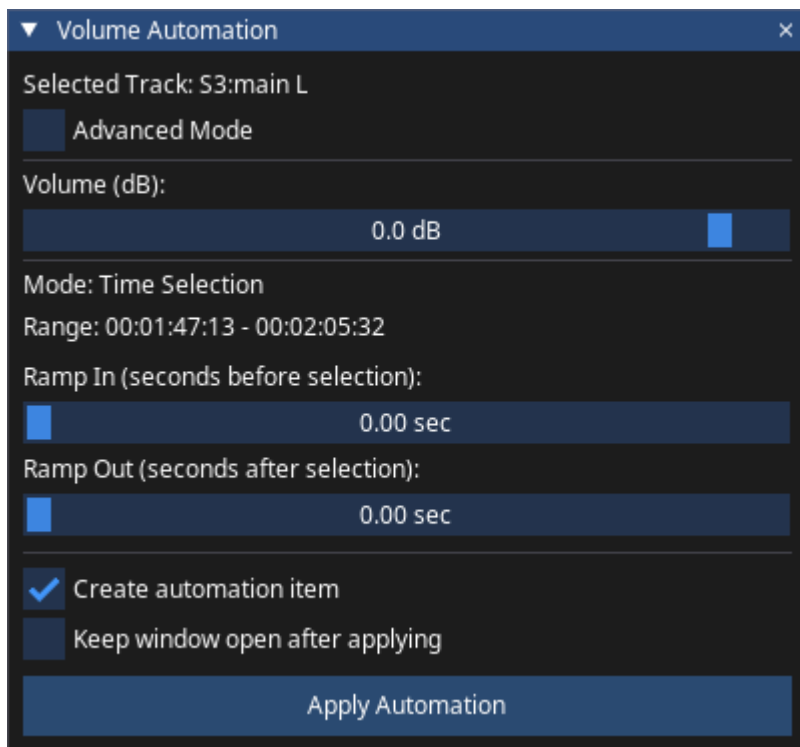


Figure 17. Automation Dialog

## General Mixing Workflow Suggestions

- Set piece-by-piece "scenes" using the Mixer Snapshots Manager adjusting mixer tracks, aux and submix controls and any FX parameters.
- Make temporary adjustments (for example, volume of spot microphones etc) via the automation function **I** on tracks with items.
- For spot microphones that should be mostly muted:
  1. Use a time selection + **I** to reduce to lowest value (-150dB/-inf) for the whole piece or use edit cursor + **I** at the beginning of the timeline to affect the whole project.
  2. Use further time selections + **I** to set required values and any ramping in and out.

### TIP

Remember that the mixer tracks (the ones starting "M:") are fed by the destination and source folders you see in the arrange window. In other words, any automation you add to destination or source tracks will be filtered through the mixer track state. As an example, if your violin spot microphone channel is set at -5dB via automation but the violin spot mixer track fader is at -40dB, the actual output will be -45dB.

## Mixing for Dolby Atmos Using Fiedler Plugins

If you have the Fiedler Beam plugin on your system, use the Mission Control **[ Enable Atmos ]** that appears to add RCFader plugins and Fiedler Beam plugins to every Mixer track as necessary. This will also pass the current mixer fader values to the RCFader plugin. Subsequent presses of the button will check presence of RCFader and Fiedler plugins, and relative position between them, and synchronize fader values. Use **[ Disable Atmos ]** to deactivate both RCFader and Fiedler Beam plugins on every mixer track.

## Mixing with Outboard Gear

Use the Mission Control [ **HW Outputs** ] to set direct connections to hardware either automatically or manually. If you do not need connections to RCMaster, disable using the dedicated button in the main Mission Control window.

## Mastering

Mastering in ReaClassical is game-changing. Many features described here are not available in any other classical DAW. I hope that the *ReaClassical* way saves you much time and helps you look forward to the mastering phase of the project. While automatic DDP generation, automatic room tone function, and professional album reports are the main features here, you will probably find the revolutionary mixer snapshot manager is an extremely efficient way to add auto-recall mixer scenes across your production as well enjoying the ability to quickly reorder album tracks via a simple keyboard shortcuts.

### TIP

If working in horizontal workflow, ensure that there is over a minute's worth of empty timeline between the end of the proposed album and any other source material. Instead, you can also choose to convert to a vertical workflow via Mission Control **C**.

## Basic Mastering Workflow

1. Choose a folder to be the basis of an album (you can create multi-disc productions!)
2. Remove all names from items on the parent track aside from those you want to be track starts.  
You can clear all items on the folder track via **Ctrl** + **T**
3. Enter track start names via the Notes window **N**
4. Press **Y** to open the metadata editor
5. Once happy, head to the Render **R** window.

### NOTE

In order to make the process as streamlined as possible for the user before the metadata editor window opens, on first run generic albumwide metadata (the name starts with "@") is added to an unnamed item on the parent folder. If that is not possible, a transparent split is made on the final item of the album.

## Metadata Editor in Detail

ReaClassical DDP Metadata Editor

Album Metadata:

Digital Release Only ☐ Manual Contributors Entry ☐

Album Title: Beethoven Late Piano Sonatas Performer: Brendel Songwriter: Composer: Beethoven Arranger:

Genre: Classical Identification: Language: English Catalog: 123456789012 Message: Created with ReaClassical

Track Metadata:

Add Marker Offsets Remove All Marker Offsets Reposition Album Tracks Manual ISRC entry ☐

I	Title	Performer	Songwriter	Composer	Arranger	Message	ISRC
01	Duis faucibus lectus	Brendel		Beethoven			USCHM2500001
02	Metus Dignissim	Brendel		Beethoven			USCHM2500002
03	Mauris facilis	Brendel		Beethoven			USCHM2500003
04	Etiam at sapiens	Brendel		Beethoven			USCHM2500004
05	Pellentesque malesuada ligula	Brendel		Beethoven			USCHM2500005

Figure 18. Metadata Editor

The metadata window allows you to enter all track and album metadata in a single place including automatic ISRC values based on the first track entry, and automatic album-wide performer, songwriter, composer and arranger values based on one or more entries in the track table. These can be overridden via the checkboxes.

**TIP**

Check the "!" box for CD tracks that you would like to have a visual countdown (length set in [F5] prefs). This feature is not available in all CD players.

## Digital Release Only

For those wanting to export individual media files only, check the "Digital Release Only" checkbox to ignore the CD offset value set in [F5] preferences as well as disable the automatic snapping of markers and regions to CD frames. Render using one of the ReaClassical "All Settings" presets.

**NOTE**

When this mode is enabled, you can still set manual marker offsets using the buttons in the metadata editor.

## Repositioning and Re-arranging Album Tracks

There are two functions which help with reordering or repositioning tracks. First, and perhaps most useful for producing a classical album, is if you decide that you need to reorder one or more tracks. Select the named item you want to move either in the arrange window or metadata editor (by clicking on the track number) and press **[Move Album Track Up]** or **[Move Album Track Down]** to switch with the track immediately above or below it in the list. Note that gaps are preserved too.

The other situation is when you want to start with uniform gaps between a series of short separate pieces. Use **[Reposition Album Tracks]** and enter a value in seconds. Your pieces are then automatically spaced and items crossfaded are left intact.

## Marker Offsets

There may be instances when an audience member coughs right before a downbeat or a violinist hits strings before the first note of an otherwise excellent performance. The Add Marker Offset function allows you to adjust the start accordingly (assuming you have some nice recorded or generated roomtone on the dedicated roomtone track).

To use, manually drag one or more CD markers to where you want them and then click **[Add Marker Offsets]**. It adds the correct offset(s) to the item name(s) automatically and refreshes the album metadata editor. Now, adjustments to an item position followed by a press of **[Y]**, maintains the relative CD marker offset to the item start. To remove all marker offsets, click **[Remove All Marker Offsets]**.

## Other Mastering Tips

### CUE File and Reports

In your project folder you will see an automatically-generated CUE file (for use with a subsequently rendered gapless audio file) along with HTML and plaintext album listings and a complete technical metadata file (useful for sending to a duplication/replication factory). For multi-disc albums, each fileset has a prefix associated with the project folder.

Generated by ReaClassical (17/12/2023 10:06pm)

Album: Fall Recital 2023

Album Performer: Kirkly

UPC/EAN: 1234567890123

Total Running Time: 34:06:15

Track	Start	Length	Title	ISRC
p	00:00:00	00:02:00		
01	00:02:00	04:04:24	Kirkly: Prelude No.1	GBR3C2300019
02	04:06:24	04:28:26	Kirkly: Prelude No.2	GBR3C2300020
03	08:34:50	07:03:09	Kirkly: Prelude No.3	GBR3C2300021
04	15:37:59	04:53:62	Wollenberg: 'Midnight' Etude	GBR3C2300022
05	20:31:46	05:27:41	Tarrasch: Little Fugue	GBR3C2300023
06	25:59:12	02:29:64	Whittaker: 'Lyrica' Prelude	GBR3C2300024
p	28:29:01	00:03:00		
07	28:32:01	05:34:14	Whittaker: 'Lyrica' Fugue	GBR3C2300025

Figure 19. Example of HTML Album Report

To clear all offsets, run **[Alt] + [0]**.

### BIN+CUE set

Create a BIN/CUE pair (either select **regions define tracks** and render the whole project or select **use only # markers** and render by time selection if you don't want the first pre-gap as actual silence

at the start of track 1).

## **Loudness**

In terms of loudness, I personally aim for about -18 LUFS Integrated for my classical albums though it can be as high as -16 LUFS and as low as -20 LUFS. The new loudness JSFX meter in REAPER and my own ReaVision Metering Suite along with the normalization of loudness and true-peak limiting in the render dialog are priceless. It's another reason I couldn't go back to the other classical DAWs at this point.

## **Further information on DDP**

For more information about DDP metadata see [here](#) (also available via the Render dialog via **Format › DDP** and clicking on **[ Help ]**).

# **Rendering**



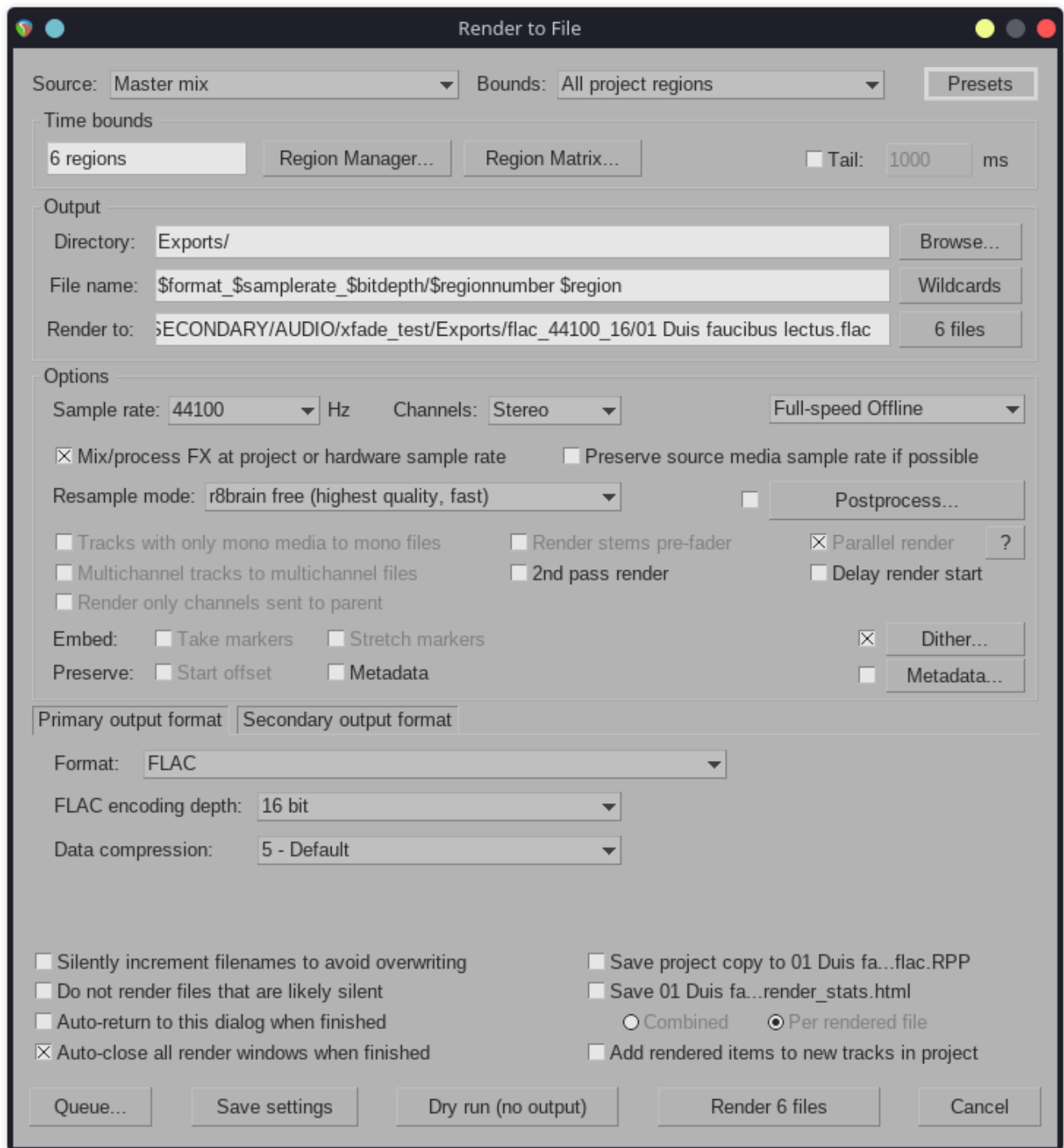


Figure 20. Render Window

## Presets

ReaClassical includes various rendering presets to make rendering extremely quick and easy. In the Render dialog **R**, click on the presets button then **All Settings**. The preset names are self-explanatory. The first four entries are for exporting a whole album as a single audio file. The remaining use the automatically created regions after using the Create CD Markers function **Y** to create automatically named folders of audio files, one per CD track. After selecting a preset, you should feel free to change any render settings and perhaps save as a new preset for future use. By default, the presets use the built-in REAPER standard triangular dither.

## **Samplerate**

Now that r8brain free has been introduced as the best quality resampler available in REAPER (I highly recommend double-checking that it is selected when resampling at render time) I feel I can do everything, including DDP creation, without leaving my favorite DAW. However, generating a CUE file via the Create CD Markers function is still useful for all sorts of things and I often create FLAC + CUE for album playback in my media player or WAV + CUE to easily burn a CD at home.

## **Dither**

Use either the built-in REAPER dither options or RCDither as the last plugin on the master chain. If using RCDither or any other 3rd-party dither be sure to keep the master fader at unity and disable all REAPER dither checkboxes.

## **Loudness & Limiting**

REAPER has a fantastic rendering feature which allows the user to set a desired loudness and peak / true peak setting. For quick exports that need to meet certain targets (i.e. streaming) this makes things extremely efficient and is very transparent when not set to extreme values.

## **Dry-run Rendering**

Another REAPER feature that is outstanding is the dry-run render function which allows for very quick offline loudness and peak checks and much faster than using REAPER's included realtime loudness meter. It is therefore extremely easy to set up compressors, limiters etc in the project and make small adjustments based on the dry-run values and maintain complete control over the process.

## **Other Rendering Tips**

Not necessarily obvious to new REAPER users are the special =START and =END markers (make your markers in the usual way and label them accordingly) that constrain the length of the project. Rather than rely on extended silence at the end of items or time selections, the =END marker is a great way to ensure you have the exact amount of lead-out you want at the end of the disc. Positioning both special markers is great way to generate files for multi-disc releases without having to rely on multiple projects.

You will hopefully notice I have included various shortcuts for manually creating regions (single or multiple) from items and time selection (great for quickly generating demo snippets). Also worth noting is that you can still do some (or all!) of your source-destination editing with your track markers in place as the S/D markers have IDs far higher than any classical CD would have and are automatically deleted after a successful edit. As long as you have your ripple-per-track mode engaged, all your existing marker placements and carefully crafted edits will remain intact. But, again, don't manually create CD markers at this point as I include a very powerful tool to make light work of that side of mastering.

# Collaborating with Video Editors


When working on projects that combine audio and video, the audio engineer must ensure that high-resolution audio edits remain synchronized with the final assembled video.

Several approaches exist:

- **No audio edits required** – The simplest case. The video editor is free to select camera angles without concerns about audio sync.
- **Post-edited audio with playback** – The promotional video is recorded after the audio has been edited, with musicians miming or playing along to playback via loudspeaker. The video editor has complete freedom to cut between angles without sync issues. This method isn't always feasible.
- **Minor edits in live-recorded video** – When video and audio are recorded simultaneously and only minor edits are needed, the video editor can use a zoomed-out shot of the concert hall, a musician's face, or another visual to mask a slight time-stretch while preserving timecode accuracy.
- **Multiple synchronized takes** – The most complex scenario. Both video and audio are recorded in multiple takes and synchronized via a timeclock. This is the focus of the following discussion.

ReaClassical provides tools to generate an edit list for video editors. Rather than a file for direct import, this list serves as a manual reference. For all recordings, but especially those synchronized to a timeclock, REAPER/ReaClassical retains the timeline start position from the recording. This ensures that absolute in/out source positions can be retrieved even after extensive audio edits.

To create an edit list:

1. Perform source-destination edits as usual.
2. Set the desired project framerate in the video tab of Project Settings via .
3. Export the edit list via **ReaClassical > Utilities > Build Edit List**:
  - a. Select *using BWF start offset* for timeclock-synced projects.
  - b. Choose *using source file timing* to reference internal source audio positions. In this case, the audio engineer should provide a single channel of audio to help the video editor locate edit points.

The resulting HTML table includes a **Done** column for tracking progress. Additionally, when using *Build Edit List (using BWF Start Offset)*, an optional offset can be applied to correct slight constant audio-video misalignment.

## Edit List (using BWF Start Offset)

**Project Name:** BeethovenSongs.RPP

**Date:** 25-03-21 13:25:34

**Frame Rate:** 25

**Start:** Absolute timeline location for building the edit

**Source In and Source Out:** Absolute timecode references for source material

**End:** A reference check for where the inserted material ends on the timeline after the 3-point edit

**Playback rate:** Only shown if not equal to 1

Time is in the format HH:MM:SS:FF

Done	Edit	Start	Source In	Source Out	End Check	Playback Rate
<input type="checkbox"/>	1	00:00:02:05	00:00:00:00	00:00:10:05	00:00:12:10	
<input type="checkbox"/>	2	00:00:12:10	00:02:00:19	00:02:11:16	00:00:23:07	
<input type="checkbox"/>	3	00:00:23:07	00:00:23:02	00:00:30:20	00:00:31:00	
<input type="checkbox"/>	4	00:00:31:00	00:00:30:20	00:00:38:14	00:00:38:19	

Figure 21. An example edit list

# Reference

## Keyboard Shortcuts




When providing keyboard shortcuts, this manual assumes Windows or Linux as the operating system when modifier keys are used. MacOS users should use the typical standard substitutions. If in doubt, open up the actions menu via keyboard shortcut  or explore the top "ReaClassical" menu to see the current assignments. For reference (from REAPER's own user guide), here is a table of equivalent modifier keys:

Table 1. Shortcut Equivalents

PC (Windows or Linux) Key	Mac (MacOS) Key Equivalent
Shift	Shift
Control (Ctrl)	Command (Cmd)
Alt	Option
Windows	Control

The best way of becoming familiar with ReaClassical keyboard shortcuts is to hover over buttons in Mission Control  and the S-D editing toolbar , but most of all, explore the top "ReaClassical" menu inbetween "Options" and "Extensions".

## Recommended Free Mastering-Grade Plugins

First stop: *Reaplugs*, with particular mention of *ReaLimit* which I consider one of the best free transparent limiter available. You could easily mix and master a whole album using only these fine plugins. Others include:

## Analysis:

- **ReaVision** (ReaClassical metering suite). Your one-stop shop for loudness and true peak values as well as adjustable K-meter, goniometer (with adjustable visual boost), phase correlation meter, bitmeter, spectrum analyzer and spectrograph.

## EQ:

- **RCChannelEQ** (ReaClassical Channel EQ, included in the ReaClassical portable install and available in ReaPack via my [repository](#)). Uses DSP from airwindows *Baxandall* and Stillwell's RBJ Highpass/Lowpass Filters for broad-strokes EQing.
- **RCMasteringEQ** (ReaClassical Mastering EQ, included in the ReaClassical portable install and available in ReaPack via my [repository](#)). Uses DSP from airwindows *Hull2* with added *Range* drop-down (*Classical* or *Full*) for transparent, musical, broad-strokes EQing.
- **ReEQ** <https://forum.cockos.com/showthread.php?t=213501>. An amazing Fabfilter Pro-Q clone for detailed EQ work. Also comes with ReSpectrum which is an excellent analyzer. Both are included with the ReaClassical install.

## Compression:

- **RCCompressor** (ReaClassical compressor, included in the ReaClassical portable install and available in my repository). Uses DSP from Express Bus Compressor by Stillwell. Default settings and ranges tuned to classical music with auto release. Use as an insert.
- **RCParallelK** (ReaClassical parallel *Katz* compressor, included in the ReaClassical portable install and available in my repository). Also uses DSP from Express Bus Compressor by Stillwell to recreate the Bob Katz *transparent* parallel compression settings. There's only a make-up gain slider as everything else is baked in (-50dB threshold, 2.5:1 ratio, 1ms attack, peak detection mode). Use on a dedicated compressor bus and adjust the gain slider to taste (with the compressor signal somewhere between -15dB and -5dB lower than dry signal according to Katz).

## Limiter:

- **RCLimiter** (ReaClassical limiter, included in the ReaClassical portable install and available in my repository). Uses DSP from Smooth Limiter by Geraint Luff to which I added 4x oversampling code. Defaults are tuned to classical music with true-peak and look-ahead functionality. Adjust the release to taste.

## Reverb:

- **Algorithmic:** For a free and open source option try my RCReverb (ReaClassical reverb, port of zita-rev1, included in the ReaClassical portable install as part of RCPlugs collection). For paid options, ValhallaDSP Room and Vintage Verb, Fabfilter Pro-R, Voxengo Sobor, Acon Digital Verberate 2 and Sonible smart:reverb are all excellent non-iLok options for classical music and work seamlessly via yabridge on Linux. Note that the Liquidsonics offerings no longer require a physical iLok so can also be used on Linux via yabridge and iLok Cloud activation if you are feeling brave.
- **Convolution:** Convology XT (also runs perfectly at time of writing via yabridge on Linux)

coupled with the Smplicity [Bricasti M7 impulses](#). There are other free convolution plugins to use but, whatever the plugin choice, the Bricasti impulses in true stereo are fantastic and sound almost identical to the presets of the well-regarded Liquidsonics Seventh Heaven Professional.

Final mastering magic:

- **Sonnox Inflator-style wave-shaping:** Try **RCInflator Ultimate** (a clone of the Sonnox product) or **MagicFairyDust** on the final stereo bus. Both effects are included in the ReaClassical portable install.
- Or, for an easy complete console vibe, use the **RCConsoleChannel**, **RCConsoleBus**, and **RCConsoleFinalizer** at the end of regular tracks, busses and final 2-bus respectively. Note that RCConsoleChannel does not have any controls.

Restoration:

- **Bertom Denoiser Classic** <https://www.bertomaudio.com/>. **Denoiser Pro** (\$25) allows for individual per-band thresholds and includes an adaptive mode.
- **RCDeEss Standard** (ReaClassical de-esser, included in the ReaClassical portable install and available in my repository). Uses DSP from airwindows DeEss.
- **RCDeEss Advanced** (ReaClassical advanced de-esser, included in the ReaClassical portable install and available in my repository). Uses DSP from airwindows DeBess.

Utilities:

- **RCGain** (ReaClassical gain plugin, included in the ReaClassical portable install and available in my repository). Uses DSP from airwindows PurestGain. Useful before or after plugins in lieu of a native channel trim knob.
- **JS Loudness Meter Peak/RMS/LUFS** (Cockos) (included with REAPER).
- **RCTime&PhaseTool** (ReaClassical timing and phase tool, included in the ReaClassical portable install and available in my repository). Add to a spot microphone channel. Achieves something similar to Merging's PanNoir to correctly align spot microphone channels with the main pair based on a fundamental Euclidean geometric relation to create a more impactful stereo image.
- **RCMidSide** (ReaClassical mid-side encoder-decoder, included in the ReaClassical portable install and available in my repository). Use the default decoder mode if wanting to convert recorded mid-side to regular left-right stereo.
- **RCDither** (ReaClassical dither plugin, included in the ReaClassical portable install and available in my repository). Uses DSP from airwindows Not-Just-Another-Dither (Monitoring version) here called *Avant-garde*. This just might be the world's finest dither. There's a drop-down to select between 16-bit and 24-bit.

For descriptions of the other 100+ jsfx airwindows ports (covering dithers, compressors, console emulations, saturation/distortion, delays, bass-specific, brightness, hard and soft clippers, reverbs, tape/vinyl emulations, exciters, stereo wideners, monitoring utilities and more, please see the [dedicated REAPER forums thread](#) and import the [airwindows JSFX ports](#) repository into ReaPack.

# Room Tone Generation

In **File > Project Templates** you will find a room tone generation template. The method is derived from [here](#).

To create endless room tone based on the venue you recorded:

1. click [ **Browse** ] in ReaVerb and select your few seconds of recorded reverb.
2. Enable the FX on the first mixer track
3. Adjust the length of the included region to the length of your live album
4. Render using **Bounds > All project regions**

Then drop the resulting file into your ReaClassical album project on a dedicated Room Tone track (add via Mission Control) and run Create CD Markers via **Y**. You will see that automation-based fades are added to coincide with opposite fade types on the first track thereby creating perfect crossfades into room tone and back without any fuss.

## System Tweaks

### Windows

For a modern Windows 10/11 setup, required tweaks are minimal. Ensure that you are using 'High Performance' or ideally 'Ultimate Performance'. which, if not available, can be activated by opening a command prompt and pasting:

```
powercfg -duplicatescheme e9a42b02-d5df-448d-aa00-03f14749eb61
```

You can then select it from the usual power plan dialog. For best device performance, remember to use the ASIO drivers that were included with your audio interface. Consider disabling your network card during mission-critical recording. For further tips see Microsoft's [Unofficial Windows 10 and 11 Audio Workstation build and tweak guide](#). Of particular interest is Part 3 which discusses what *not* to do (including not setting your processor scheduling to 'background services').

### MacOS

Performance should be excellent out of the box. Remember to disable energy saving (**System Preferences > Energy Saver**) so that sessions are not interrupted. Consider disabling your network card during mission-critical recording. If you are experiencing any audio issues while in your DAW, for tips see Focusrite's [optimization page](#).

### GNU/Linux

Linux users should visit my [Arch Pro Audio Guide](#). Performance out of the box on Linux is getting better with every kernel release and is on par or better than Windows. As a starting point, ensure that your username is set up for realtime privileges (step 3) and that you set several kernel parameters to ensure you are running the performance governor, threadirqs and dynamic preempt

(step 4). To make things even easier, consider using a dedicated audio/video distro like [AVLinux](#) or [Ubuntu Studio](#) where everything is already set up for you.

## **Cross-platform**

The good news is that REAPER and ReaClassical run on nine different architectures. You should always be able to open up a project on another machine even if it is running a different OS. Plus, ReaClassical includes various mastering-grade plugins in JSFX format that run on all architectures.