

Librarian

User Manual – Version 1.0

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# Acknowledgements

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# EULA

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# Welcome!

Welcome to the ZOIA Librarian! The Librarian aims to make using ZOIA much easier. Whether you are a major patch creator or a general ZOIA user, the ZOIA Librarian has features that can help anyone organize and manage their patches.

After you have downloaded and installed the ZOIA Librarian, the application can be launched from a single executable on Windows or a single application file on OSX. Double-clicking on the ZOIALibrarian.1.0.exe or ZOIALibrarian.1.0.app file will start the app. You will be greeted with a brief splash screen as the application loads.

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*If this is your first time launching the application, the start-up process will take longer than usual, as all patch information is retrieved from PatchStorage. Subsequent start-ups will not need to retrieve as much information, significantly improving the loading time.*

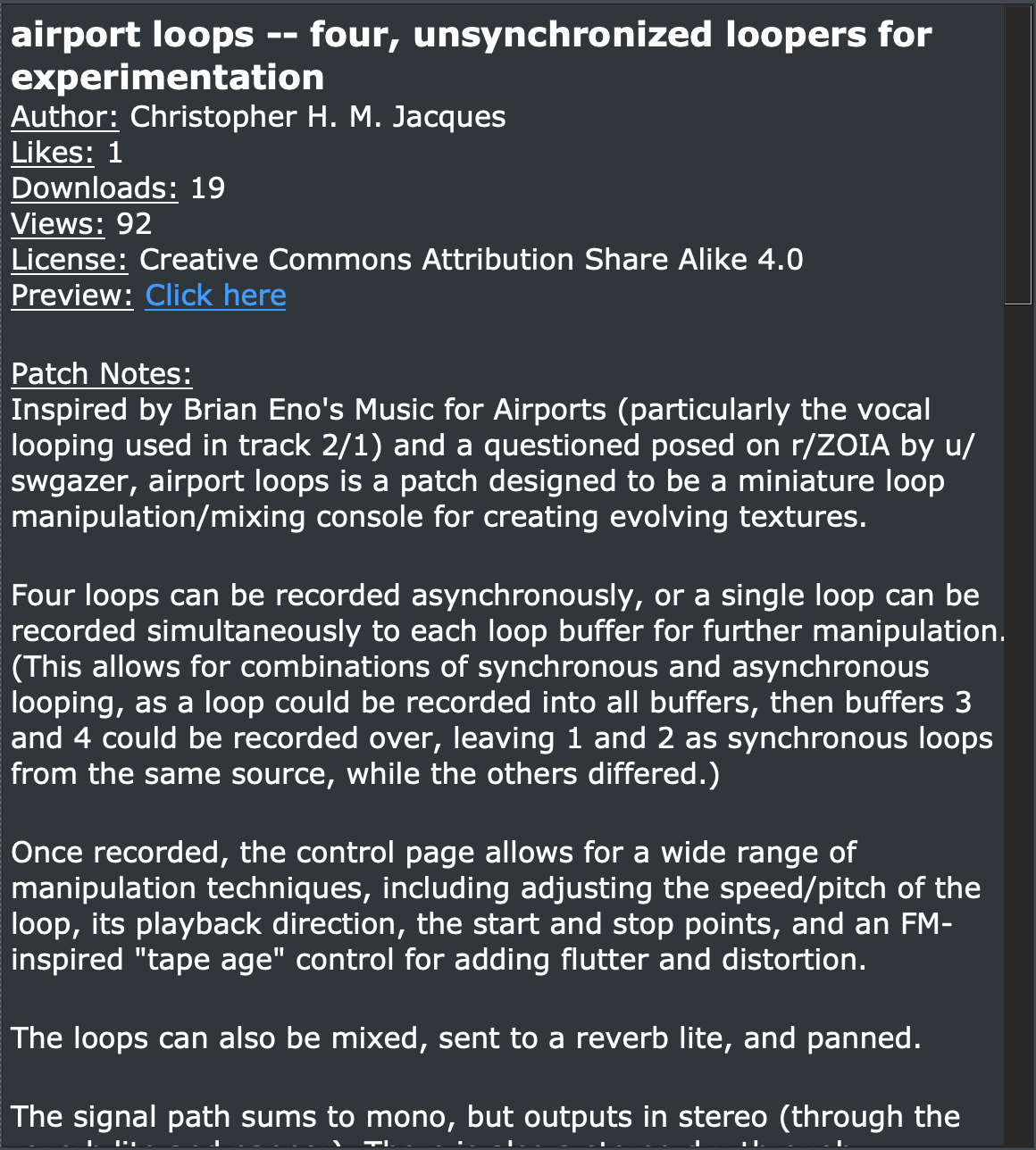
The application is split into 4 main tabs:



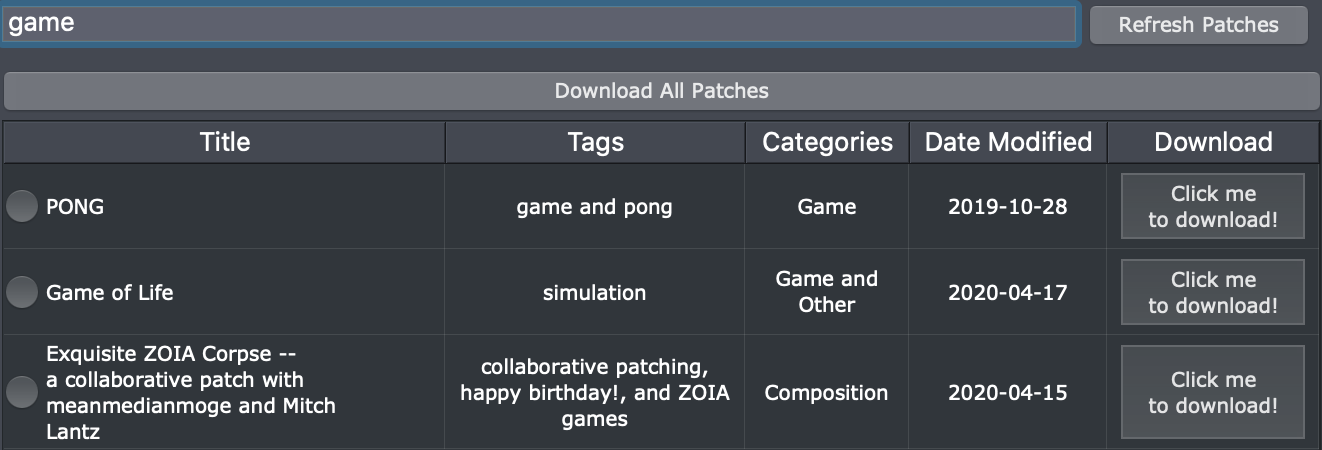
These tabs allow you to navigate between different features of the Librarian. The following sections of this manual will focus on each tab and explain the features specific to that tab:

* PatchStorage View is where you quickly browse and search through all ZOIA patches that are currently hosted on PatchStorage. All patch notes and meta-data from the site are included, giving you a convenient way to explore and download interesting patches along the way.
* Local Storage View is where you can view and edit all of the patches in your local library. Update the tag information for patches, explore groups of patches that were saved together as Version Histories, and see the details of each patch (as if you were using your ZOIA) with the Patch Visualizer!
* SD Card View is where you manage the folders and patches on your SD card. Re-order the patches on each SD card folder without hassle and import multiple patches at once for simplicity.
* Banks View is where you can easily create banks of patches, ready to be exported to the SD card. Drag-and-drop multiple patches at once from your local library, move them around, and save for a dynamic way to handle bunches of SD folders.

# PatchStorage View The PatchStorage tab is where you quickly browse and search through all ZOIA patches currently hosted on PatchStorage. On the left side of the screen, you will find a table containing information about every patch currently available on Patchstorage, including the title, user tags, categories, and the date the patch was uploaded or last updated:

Selecting a patch by clicking on the circle beside the patch title will populate the right side of the screen with additional information about the patch. This displays the author and license, the like, view, and download counts, and can even include a clickable preview link (if the author has included one):

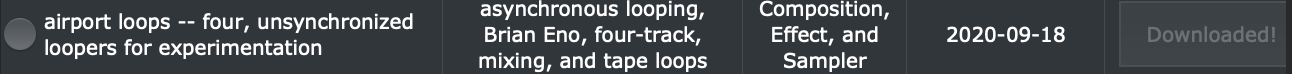
^

Above the table on the left, there is a search bar. You can search for patches by title, tag, category, and date in the PatchStorage View tab. To initiate a search, enter the query you want to search for and hit Enter/Return. For example, if you wanted to find all the patches that have “game” in its title, tags, or category:

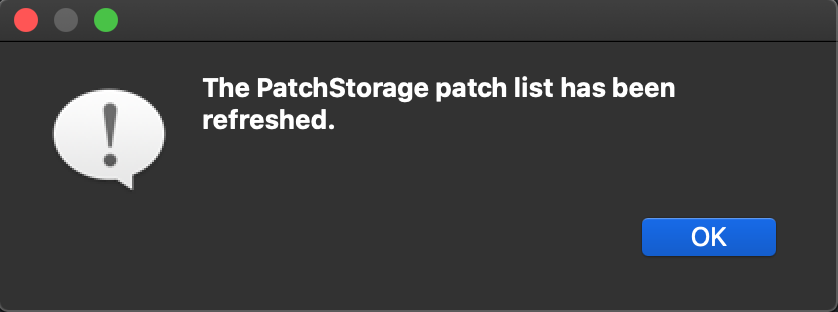
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Downloading patches is as easy as hitting the download button to the right of the patch you want to download. Once the download is complete, the button will disappear. This is to make sure you do not accidently download the same patch twice. Even on subsequent launches of the application, if you have previously downloaded a patch and it still exists within a Librarian, no button will exist:

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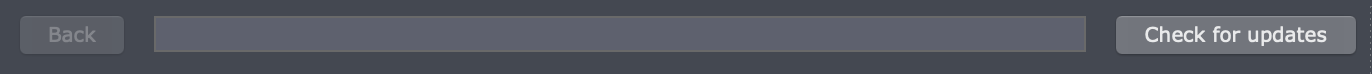
To the right of the search bar, there is a “Refresh Patches” button that will allow you to refresh the patch list to reflect the patches available on Patchstorage. The app also updates this list each time it is opened. If you refresh the list, a pop-up will let you know when it has finished:

Above the search bar is the “Download All Patches” button, which will download all currently hosted patches from PatchStorage. Note that this download process is very time-consuming.

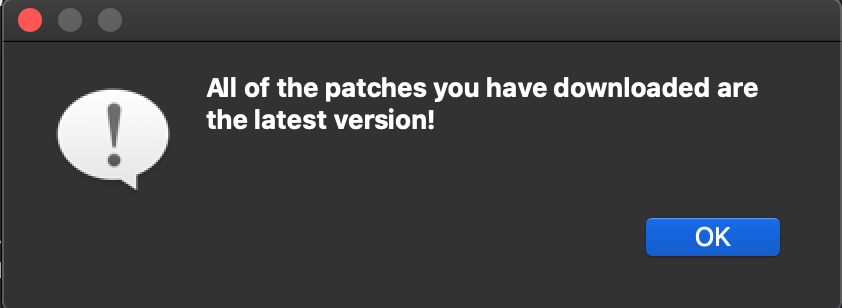
You can view all the patches you have downloaded by switching to the Local Storage tab, which will be covered in the next section.

# Local Storage View

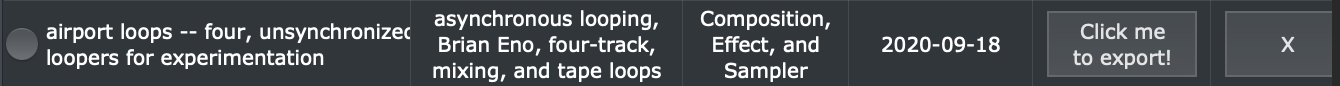
At first glance, the Local Storage tab will look very similar to the previous tab. However, there are many additional options to explore. Searching behaves the same as it does in the PatchStorage tab, except you can now also search for patches by author. Additionally, there are two new buttons to the left and right of the search bar. A “Back” button and a “Check for updates” button. The “Back” button will initially be inaccessible.



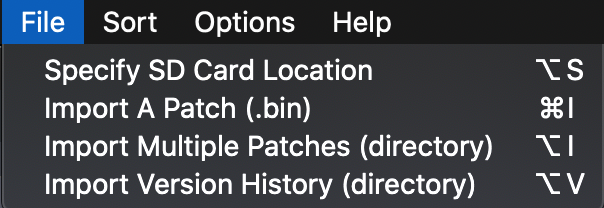
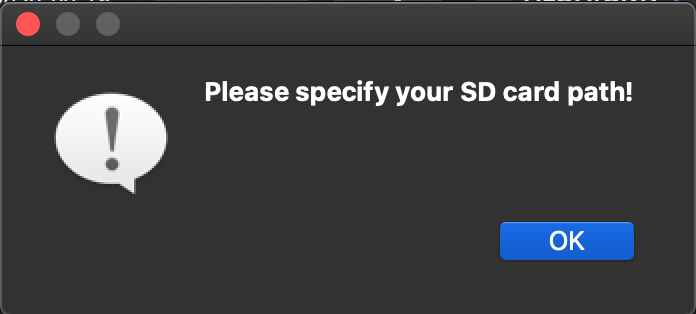
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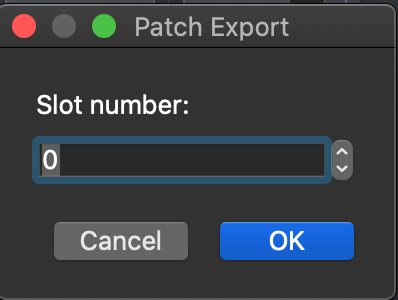
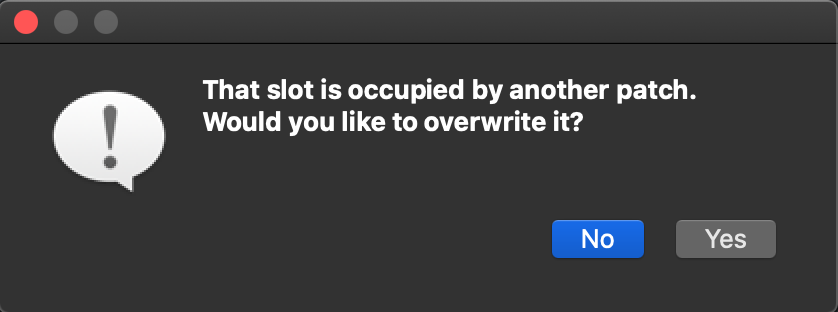
The “Check for updates” button will automatically check all the patches you have within the Librarian to see if they have been updated on PatchStorage. If the patches have been changed, these updates will automatically be retrieved and saved. Most of the time, however, this is the message you will get when clicking the button:

Within the patch table, there are two new buttons: Export and Delete. To delete a patch from the Librarian, click the “X” button beside the patch.

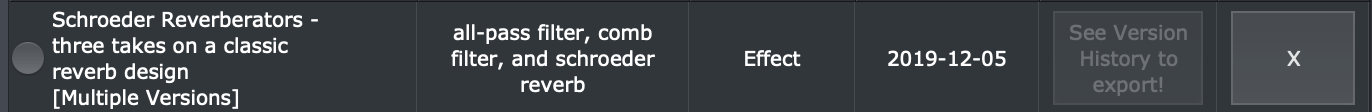


When you click on the export button for the first time, the message below is most likely what you will see. If you click “OK”, you will be able to select the SD card used for patch transfer. Alternatively, to select your SD Card location, look for the “File” option on the taskbar at the top of the screen, click it, and then click “Specify SD Card Location”. Please note that exporting from the Local Storage tab will export to a folder called “to\_zoia” by default. You will be able to see this folder and its patches in the SD Card tab.

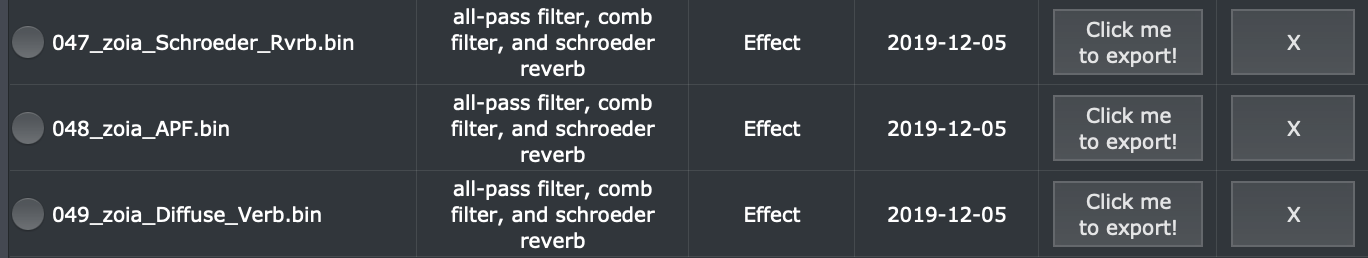


Exported patches will be placed into the slot you specify. You will be warned if you are trying to export to a slot that is already occupied by another patch. Otherwise, the export will take place and you will be able to find the patch in the directory named “to\_zoia” on your SD card.

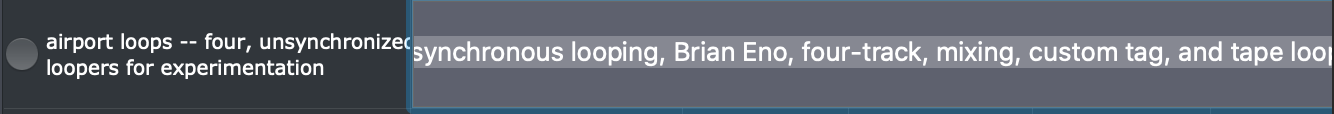
For certain patches, the Export button is inaccessible - this is because these originated as zip files with multiple patches or versions. The Librarian unzips these as they are downloaded and stores them as a versioned patch. To access the Version History view, click on the circle to the left of any patch that has “[Multiple versions]” in its name. Clicking “X” on this row will delete all patches within the version history.

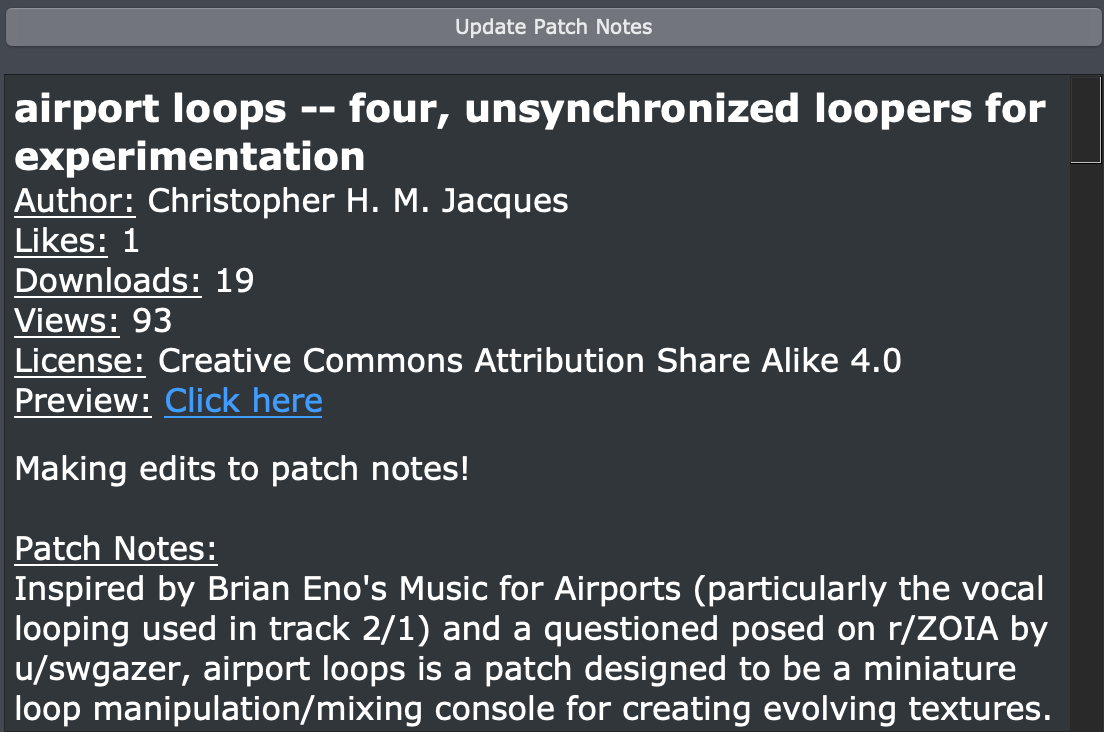


Upon entering the Version History view for a patch, you can individually export specific versions and delete them. To exit this view, click the “Back” button.



The Local Storage tab also offers edit functionality for patches you’ve downloaded or imported. To modify the patch tags or categories, simply double-click on the cell you wish to edit and start typing. Once you have finished, simply click off the cell or hit Enter/Return:



The right-side upper panel displays the patch metadata, which can also be edited. To do so, first select a patch on the left-hand side of the screen by clicking on the circle to the left of its name. Next, make the edits you wish to add or remove:

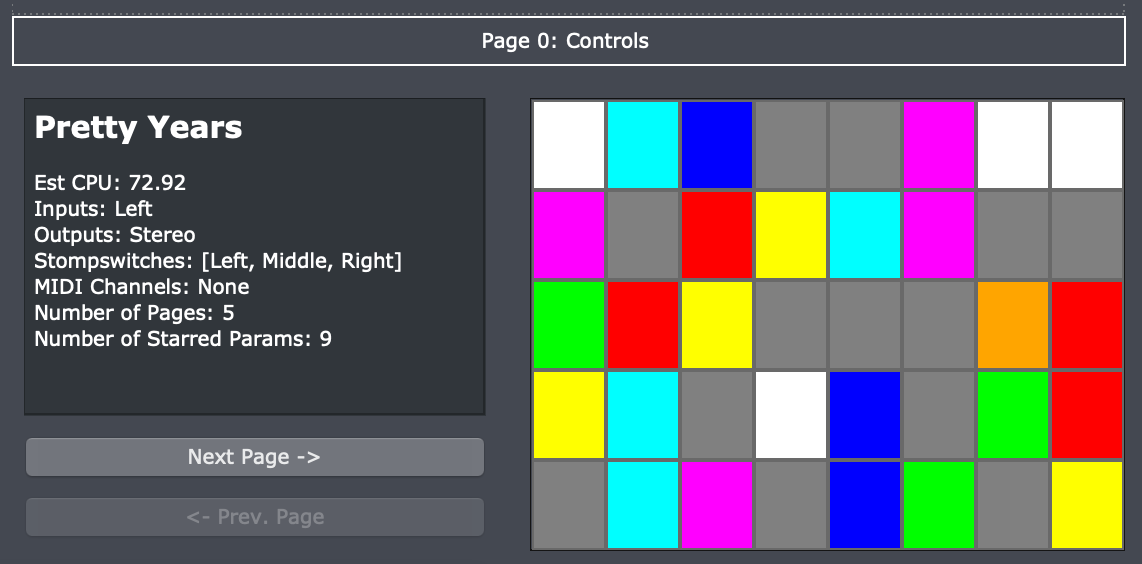
Once you are done, click the “Update Patch Notes” above to save these changes. A couple notes about making edits to patch notes or information:

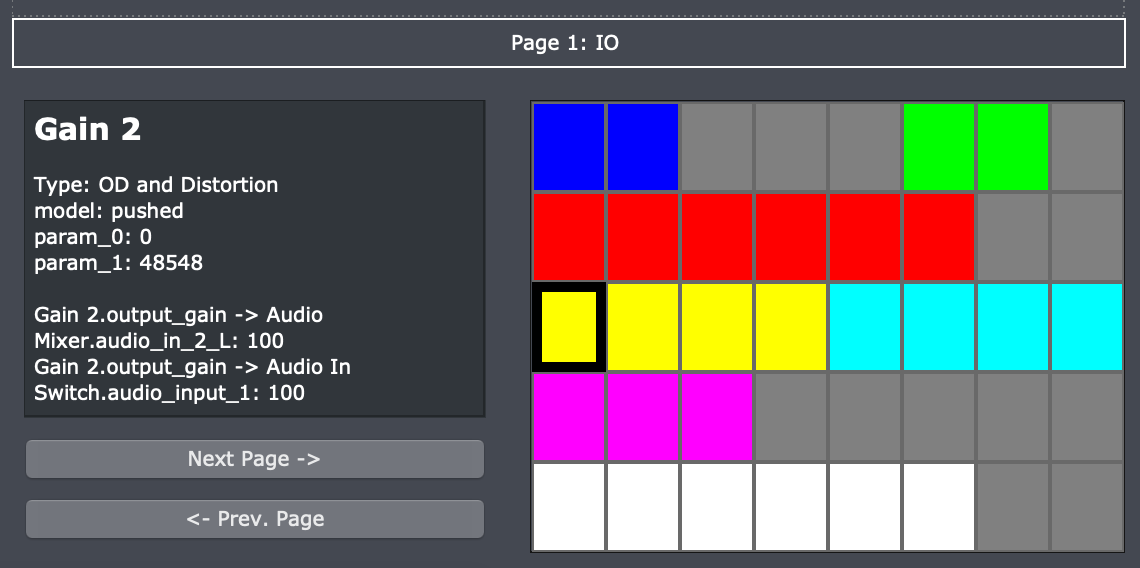
* All headers in the patch notes can be modified.
* Tags and categories cannot be mass modified for patches that contain multiple versions, however each version can have their tags and categories individually modified.

The last major feature in the Local Storage tab is the patch visualizer. Located in the right-side lower panel, the visualizer offers a way to explore the layout of a patch before loading it onto your ZOIA. There are two primary types of information present in the visualizer:

* Patch - displays the Patch name, estimated CPU (not including connections), I/O, MIDI channels, stomp-switches used, page names, and the number of starred parameters
* Module - displays the Module name, type, options chosen, parameter values, starred parameters (plus the MIDI CC if assigned), and outgoing connections.

Please note that certain patches may fail to display in the visualizer panel - this is likely due to them being saved on deprecated ZOIA firmware. If you find a patch that doesn’t display a visualization as-is, an easy fix is to load it onto your ZOIA, save with a more recent firmware (preferably 1.13), and re-import (deleting the old version in the process). This feature has been a huge time investment and we are extremely happy to offer it in the first official release of the ZOIA Librarian.

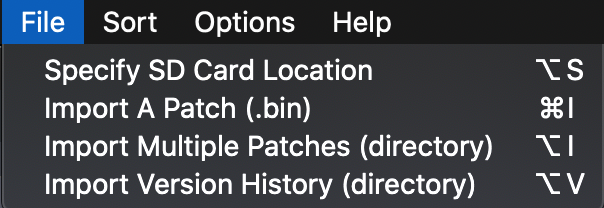


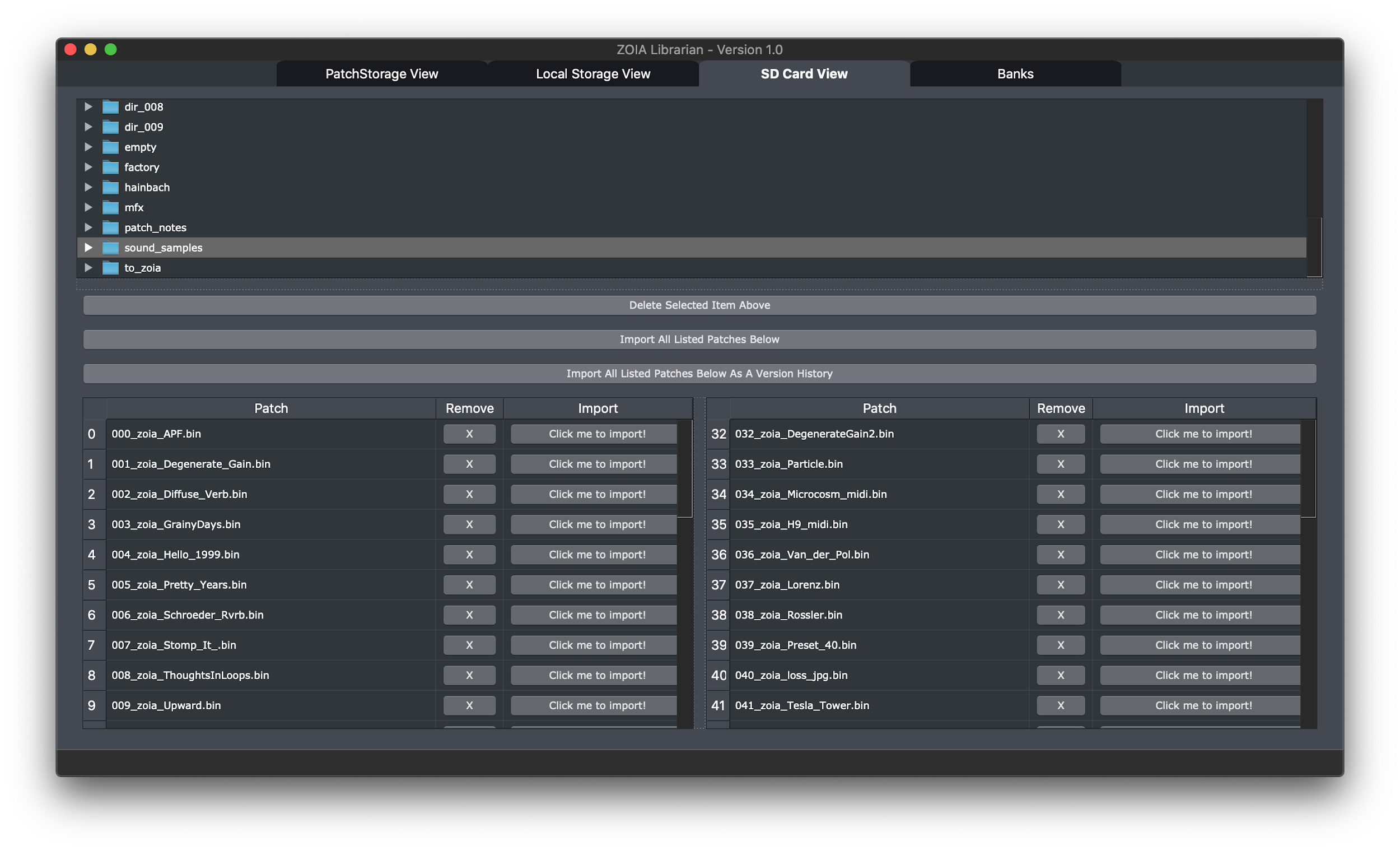


Now that we have explored the Local Storage tab, it’s time to move on the SD Card tab!

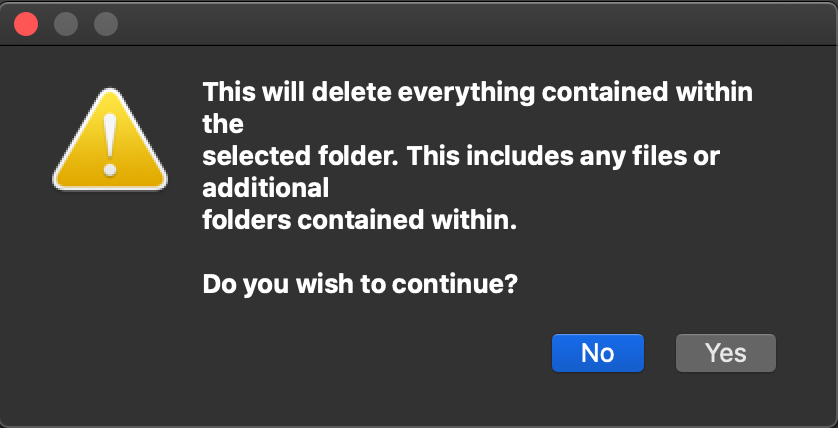
# SD Card View

The SD Card tab gives you a look into the directories located on the SD card you have specified. In case you have not specified your SD card yet, look for the “File” option towards the top left of the screen, click it, and then click “Specify SD Card Location”:

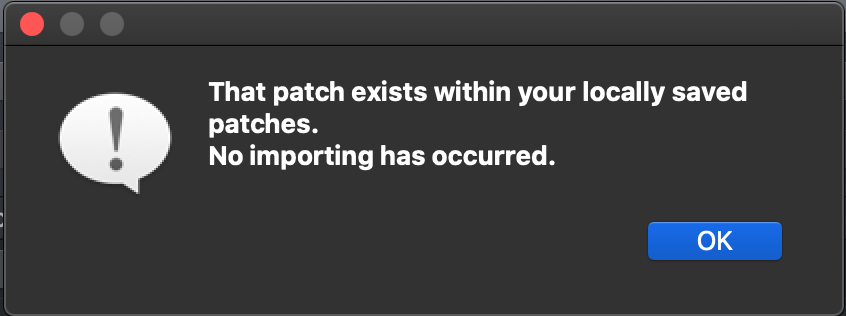
After selecting your SD card location, this is the screen you will be presented with:



The upper portion of the screen lists all the folders located on the SD card. You can expand these folders if need be by clicking on the arrow to the left of each folder. Clicking a folder will populate the table with patches.

You can move patches within the folder by dragging and dropping them into different slots on the SD card. Multiple selections can be done with Shift or Ctrl/Cmd macros. You can also remove a patch from your SD card by clicking the “X” button in each row, or completely remove a directory from your SD card by selecting “Delete Selected Item Above”. This button will trigger a confirmation window:

The most important features in the SD Card tab are related to patch importing, of which there are 3 options. The first is achieved by clicking “Click me to Import” next to a patch in the above table. The second and third deal with mass importing of multiple patches at once - in one of two ways: import multiples as individual patches or import multiples as a versioned patch.

During the import process, the Librarian will attempt to merge with any patches you have in your Local Storage or ones currently hosted on PatchStorage (bringing along the metadata in the process). If an equivalent patch already exists in your Local Storage, it will not be imported, and you will see a message like so:

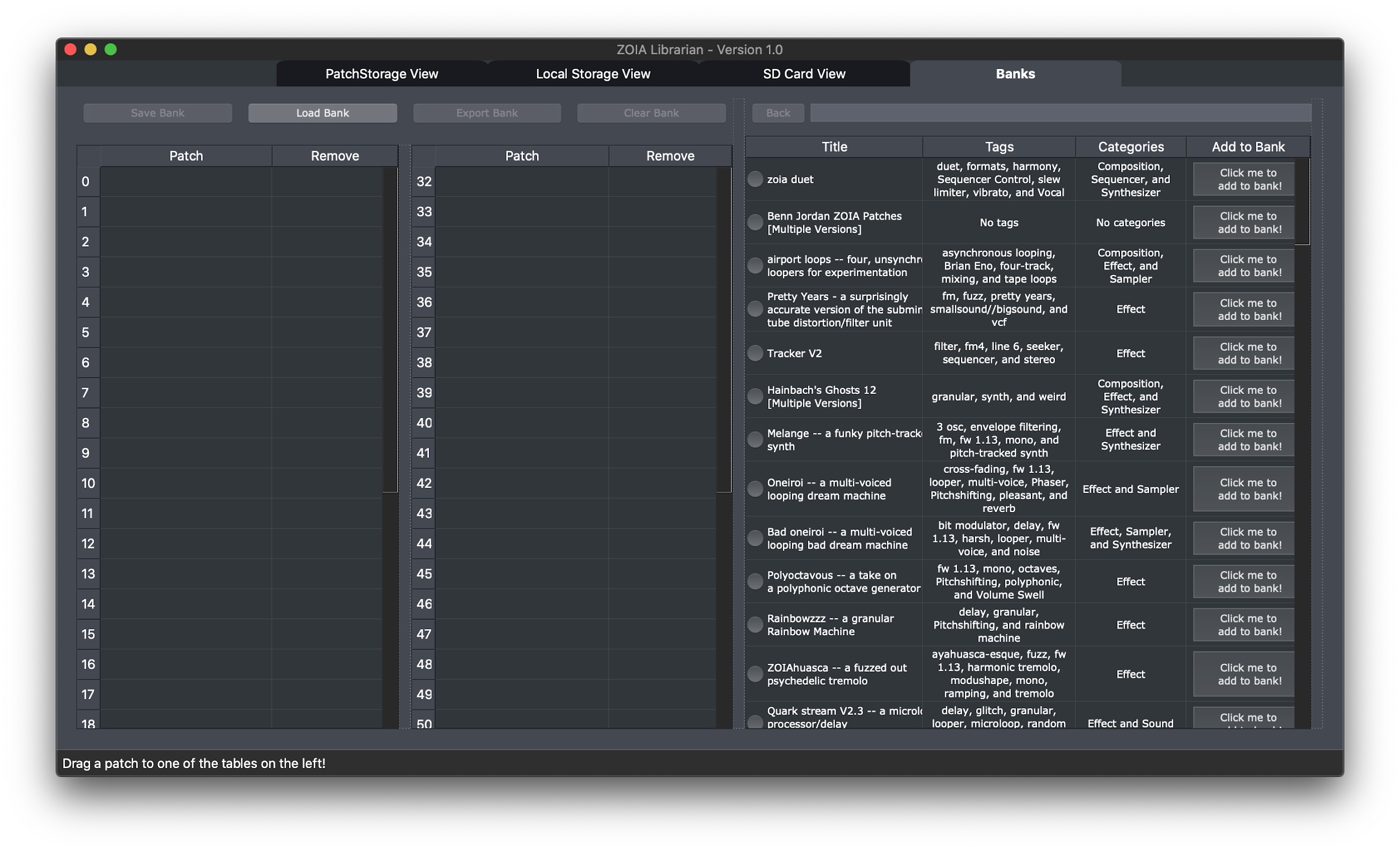
The SD Card tab gives you a quick way to mass import patches from your SD card into the Librarian, but what about mass exporting? That is where the Banks tab comes into play, which will be discussed in the next section.

# 

# 

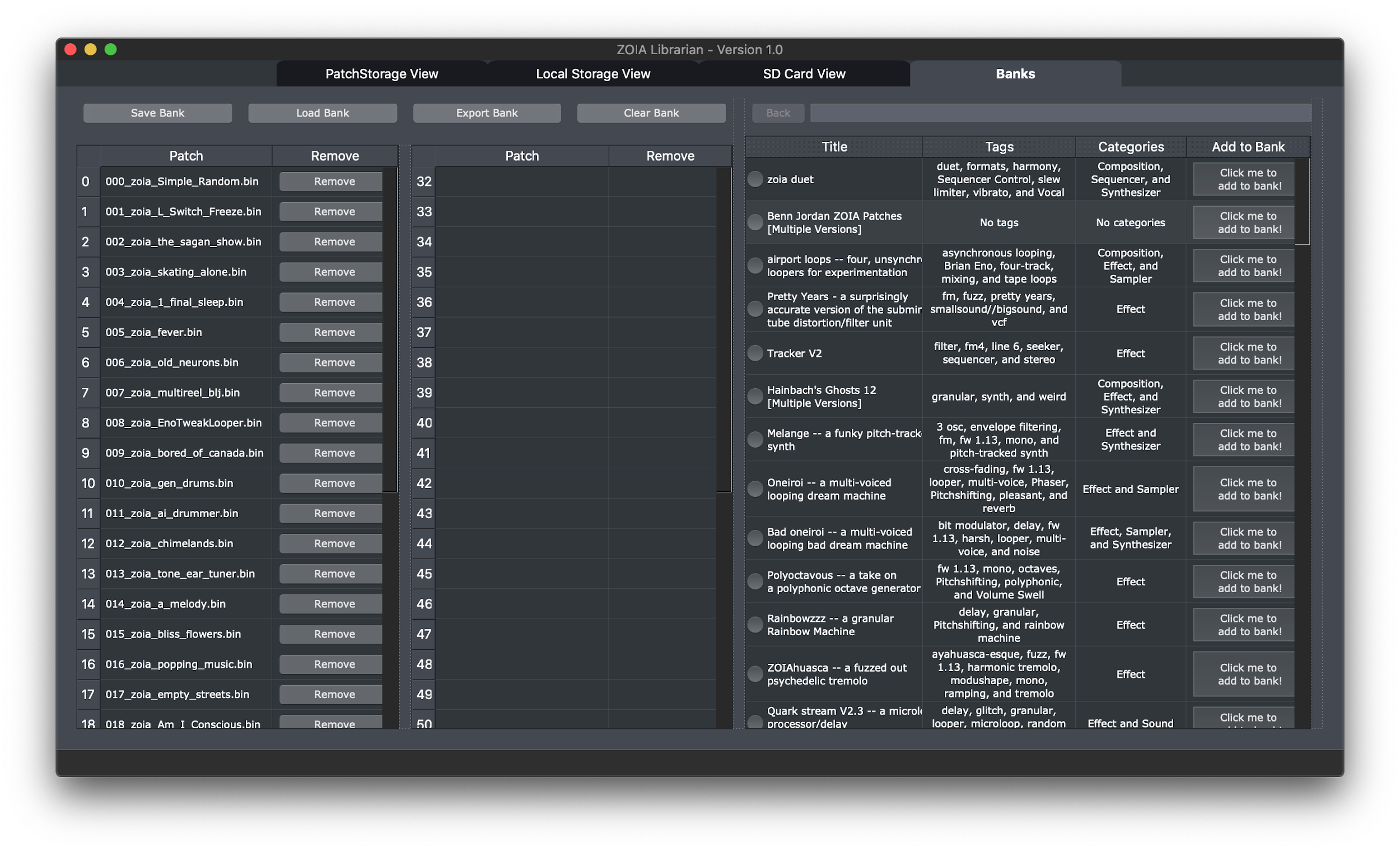
# Banks

Upon navigating to the Banks tab, you will be presented with the following screen:

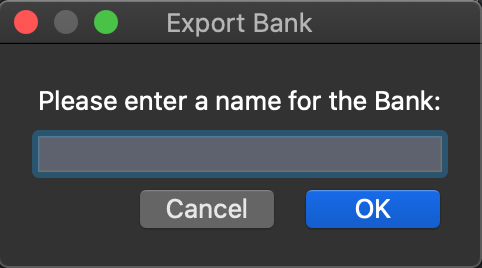


On the right side of the screen, you can view patches saved within the Librarian. You cannot modify their tags, categories, or patch notes in this view, nor can you delete them. To do so, you will need to go back to the Local Storage tab. You can still view additional patch information and enter the Version History for patches in the Banks tab. You can also search for patches just as you can in the Local Storage View.

To get started, select a patch from the Local table, and either drag it over to a slot in one of the two bank tables, or click the “Add to Bank” button for the patch. Once you have patches in the bank tables, you can move them around in the same way as the SD Card tables. If you add a patch to the bank that has multiple versions contained within it, it will automatically populate the table with all the patches contained within.

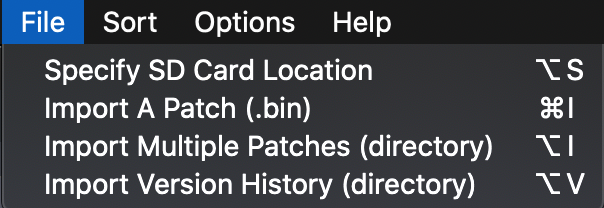
Once you are finished making your Bank, you can save it using the “Save Bank” button, and/or export it using the “Export Bank” button. Please note exporting can not occur unless you have specified your SD card. Once you have bank(s) saved, you can use the “Load Bank” button to populate the bank tables with those patches. Please note that if you remove patches from your Local Storage that are within a saved bank, they will not load, as they no longer exist. Finally, there is a “Clear Bank” button for a quick way to clear the bank completely (alternatively, you would remove patches from a bank by clicking the “Remove” button in each row).

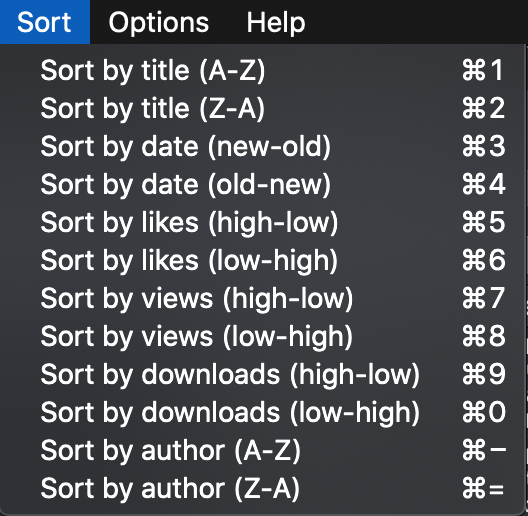
Whether you are saving or exporting, you will be asked to provide a name for your Bank:

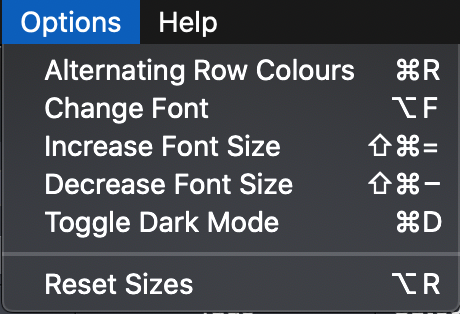
You will be warned if a folder on your SD card is already using the name you provided. Otherwise, you will be able to find your patch Bank in a new folder on the root of your SD card.

# Additional Features

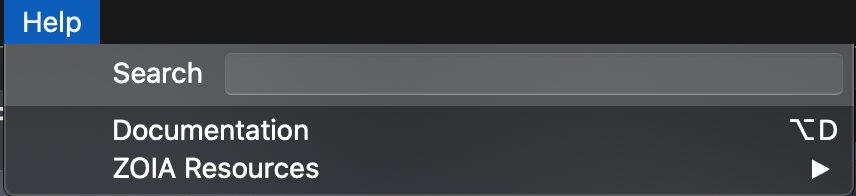
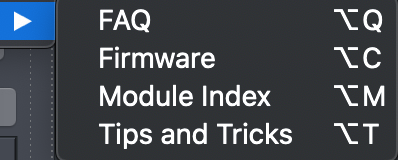
There are some additional features that are available in the Librarian which can apply to multiple tabs. You’ll find these in the menu actions.

The File menu has been discussed previously, in the context of your SD card location. The other items are for when you’d like to import patch files that exist on your local filesystem. Each one is analogous to the functionality in the SD Card tab.

The Sort menu offers ways to sort the various tables in the Librarian. This applies to the PatchStorage, Local Storage, and Bank tabs. Note that sorting by Author is not available in the PatchStorage tab. The default sorting option is by Date (New-Old).

The Options menu is for altering the look and feel of the Librarian, including row inversion, font style and size, dark mode toggle (always on, of course), and a way to reset the UI panels and tables to their defaults.

The Help menu is where you’ll find documentation for the Librarian and resources for using the ZOIA. This information will display in the PatchStorage tab on the right-side panel where the patch notes would show. The FAQ is provided below as an example.



# Changelog

Version 1.0 represents the first major release of the Librarian and includes many notable additions, changes, bug fixes, and one known issue.

New Features

* Finalized ZOIA binary parsing implementation. Again, massive thanks to djigneo/apparent1 for the initial C# code. As of this release, all features of the patch are fully exposed and can be decoded into a JSON object for further use.
* Patch visualizer has been updated with more information to help you understand patches at a quick-glance.
* Added the ability to search and sort for patches by author name.
  + This applies to Local and Bank tabs only.
  + PS tab author search and sort will not be supported at this time due to the API structure.
* Updated patch importing so that patches with near-identical names are merged upon import (instead of strictly identical names).
* Updated the behavior of the SD and Bank tables so that multiples can be selected and moved in different ways:
  + Hold Shift and click the start and end patches to move.
  + Hold Ctrl/Cmd and click on each patch you'd like to move.
* Patches can now be moved into a bank in the following ways:
  + Dragging single or multiple selections (similar options as above) at once.
  + Include an Add to Bank button for single selections at a time.
* Added a Clear Bank button to wipe the bank tables clean.
* Added a new Help toolbar which allows users to access documentation and useful ZOIA resources. These will display in the PS tab browser panel. You can also search for different commands/shortcuts.
* Added a Reset UI menu option in the event that users mangle the UI panels or tables.
* The application will now start in dark mode by default. Also changed the light theme colors.
* Alternating row colors is now a saved preference. It will save whichever is the current setting upon closing the application.
* Added a step-by-step guide for how to compile the application from source for developers, contributors or users who were unable to open the beta builds.
* Added our first Linux build! We aim to support the latest stable version of Ubuntu going forward. If you are a Linux user who prefers other distributions, please contact me.

Fixes

* Fixed an issue that occurred while importing a version history (Mac).
* Removed the threads used with menu action multi-import functions (Mac temporary fix).
* Fixed an issue where the dates of imported patches were back-dated to the history of the SD card.
* Fixed an issue with SD card imported files having mangled filenames (Windows). This also caused patches to not export properly.
* Fixed an issue where changing the font/font size didn't apply to themes or buttons.

Known Issues

* Certain patch binaries cannot be fully decoded due to being saved on deprecated ZOIA firmware.
* Saved UI preferences are not being applied correctly for the Local Storage tab - specifically the vertical splitter (Mac).

# Future Plans

The app still has a lot of potential for additional features! These include:

* Expansion view of routing for patch visualizer. Right now, the connections are displayed on a module-block level, but not from a general patch level. The expander would provide an in-depth visualization of audio and CV routing, likely to be displayed in a new tab.
* Extend the binary decoder methods into an API for other applications/programs to utilize.
* Simplify and automate code structure for releases (currently, a minimal-working version of the code needs to be created for the app-building process).
* Allow for custom themes and colors in the UI.
* Actually fix threading issues associated with menu action multi-imports.
* Anything else the community wants to see implemented!

We encourage you to provide feedback on things you want to see changed or features you would like to see added! Thank you for being an awesome member of the ZOIA community!