

User Manual – Version 1.2 March 2022

Acknowledgements

Developers/Contributors:

- Mike Moger (meanmedianmoge)
- John Breton (Ellipses22)
- Sranderley
- Jonathan H. (djigneo/apparent1)
- Rob S. (smithrobs)
- Matthew A. (mtallen)
- Alex M. (qckpckt)
- Marc L. (marcuslupinus)

Special thanks to those who submitted user stories:

- Christopher H. M. Jacques (chmjacques)
- Jesse (juicynoisebits)
- Jeremy (Red Means Recording)
- Scott (Sound Isles)
- Ian (collector//emitter)

Additional thanks to our beta testers and those who submitted bugs or feature requests ahead of this release.

And lastly, a huge appreciation to the entire Empress Effects team for the support and assistance in developing this application!

EULA

This software is distributed under GNU General Public License 3.0. Please familiarize yourself with the Terms & Conditions of copyleft licenses like GPL (and others) here: https://www.gnu.org/licenses/gpl-3.0.en.html. ZOIA and its patch binary format are a trademark of Empress Effects, Inc and are used with permission. Neither the developers nor Empress Effects, Inc. are liable for any issues caused or raised by the use or modification of this application. By installing the application you agree to these terms. All source code, documentation, issue reports, and release candidates are hosted via Github: https://github.com/meanmedianmoge/zoia_lib.

Table of Contents

Acknowledgements 1

EULA 1

Table of Contents 2

Welcome 3

Loading the App

Tabs

PatchStorage tab 4

Patch Metadata

Searching

Downloads

Refresh Patch List

Local Storage tab 6

Check for Updates

Export and Delete

Version Histories

Editing Patch Metadata

Patch Visualizer

Patch Expander

SD Card tab 11

Selecting the SD Location

Managing SD Directories

Moving Patches

Import Functions

Setting the Export Directory

Folders tab 14

Local Storage table

Moving Patches to a Folder

Folder Operations

Additional Features 17

File Menu

Sort Menu

Options Menu

Help Menu

Documentation

Changelog 18

New Features

Bug Fixes

Known Issues

Future Plans 19

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 an executable on Windows or application file on OSX. Double-clicking on ZOIALibrarian.1.2.exe or ZOIALibrarian.1.2.app file will start the app. You will be greeted with a brief splash screen as the application loads.

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.

PatchStorage Local Storage SD Card Folders

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 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** 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 and Patch Expander.
- **SD Card** is where you manage the folders and patches on your SD card. Reorder the patches within each SD card folder without hassle and import multiple patches at once for simplicity.
- **Folders** is where you can easily create folders 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 multiple SD folders.

PatchStorage

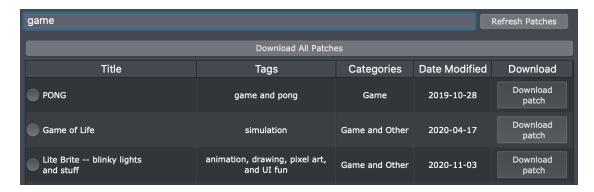
The PatchStorage tab is where you quickly browse and search through all ZOIA patches currently hosted on PatchStorage. On the left side of the screen, you will find a table containing information about every patch currently available on Patchstorage, including the title, user tags, categories, and the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



When you select a patch by clicking on the circle beside the patch title, the right side of the screen will populate 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).

JohannLooper V2a granular looper/arpeggiator
Author: Christopher H. M. Jacques
<u>Likes:</u> 46
Downloads: 2477
Views: 6251
License: None provided
Preview: Click here
Datab Natas
<u>Patch Notes:</u> Using a series of cascading loops, the Johann Looper warps time,
making sound seem to coalesce out of nothing, arpeggiate of its
own accord, and change its nature from moment to moment. At its
default settings, it sounds rather like an orchestra that accompanie
your melody.
Johann Looper 1.1 revision notes
The revision mostly fixes what firmware 1.02 broke. In the new
firmware, you can't save the forward/reverse state of a looper. If
you heard Johann before 1.02, this is the same patch, sonically.
But I also used it as an opportunity to redesign the front page.
Now, it has a pretty light show that tracks the loops, and some of
the controls are more accessible, and others have better representation.
representation.
Front page:
[M1][M3]
[Mix][Pad mix][M2][M4]

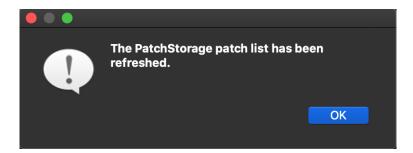
Above the table on the left, there is a search bar. You can search for patches by author, title, tag, category, and date in the PatchStorage tab. To initiate a search, enter the query you want to search for and hit Enter/Return.



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, this button will disappear so that 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, the button will not appear.



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 currently 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.

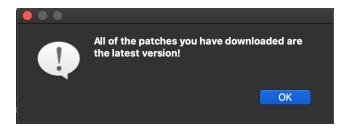
You can view all the patches you have downloaded by switching to the Local Storage tab, which will be covered in the next section.

Local Storage

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. 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.



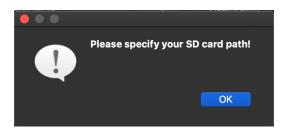
The "Check for updates" button will automatically check all the patches you have within the Librarian to see if they have been updated on PatchStorage. If the patches have been changed, these updates will automatically be retrieved and saved. Most of the time, however, this is the message you will get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

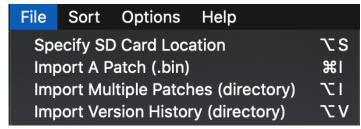


Within the patch table, there are two additional options (Export and Delete) and a ticker (Rating). To delete a patch from the Librarian, click the "X" button beside the patch.



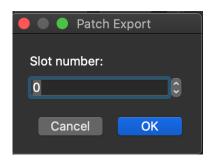
When you click on the export button for the first time, the message below is most likely what you will see. If you click "OK", you will be able to select the SD card used for patch transfer. Alternatively, to select your SD Card location, look for the "File" option on the taskbar at the top of the screen, click it, and then click "Specify SD Card Location".





By default, exporting from the Local Storage tab will export patches to a folder called "to_zoia". You can choose a different directory location and view the exported patches in the SD Card tab.

When you export a patch, the application will detect if there are patches in the directory already and initialize the window selection with the next-available slot number. You will be warned by a pop-up if you try to overwrite an existing patch.

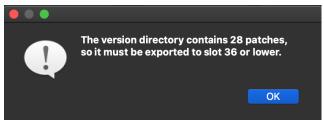




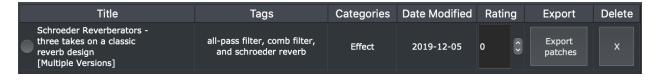
Certain patches are labeled as "[Multiple Versions]" - these originated as a collection of multiple patches, either downloaded from PatchStorage or mass-imported from the SD card. Instead of requiring a unique patch id, the Librarian groups these patches together, each one as a different version. You can export an entire version history by clicking "Export patches", or delete all patches within by clicking "X" on the row.

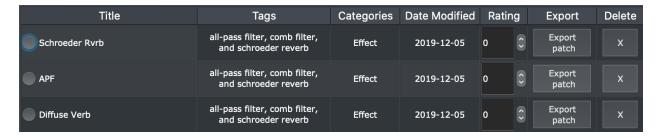
Exporting an entire Version History to the SD card may require a lot of overwriting of patches, or it may not fit all of them without altering the slot number.



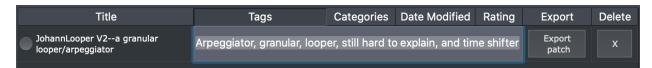


To access the Version History view, click on any patch that has "[Multiple versions]" in its name. Upon entering the Version History view for a patch, you can individually rate, export, and/or delete specific versions. To exit this view, click the "Back" button.





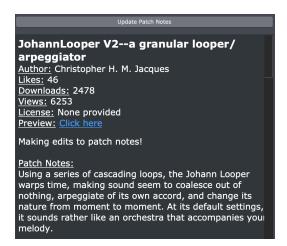
The Local Storage tabnoffers edit functionality for patches you've downloaded or imported. To modify the patch tags or categories, simply double-click on the cell you wish to edit and start typing. Once you have finished, click elsewhere in the application or hit Enter/Return.



Patches in your Local Storage can also be rated on a scale from 0 to 5. Use the up/down arrows or double-click the box to enter your rating. Ratings can be applied for an entire version history as well as individual patches.



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, then make the edits you wish to add or remove.

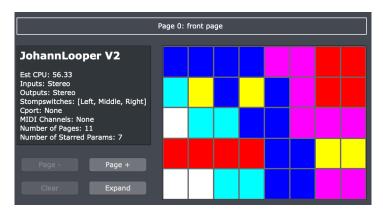


Once you are done, click the "Update Patch Notes" above to save these changes. Two notes about making edits to patch notes or information:

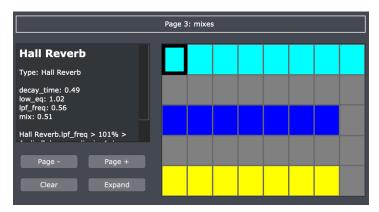
- All headers in the patch notes can be modified.
- Tags and categories cannot be mass modified for patches that contain multiple versions, however each version can have their tags and categories individually modified.

Located in the right-side lower panel is the Patch Visualizer, which offers a way to explore the layout and routing 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, cport connections used, the number of pages, and the number of starred parameters.

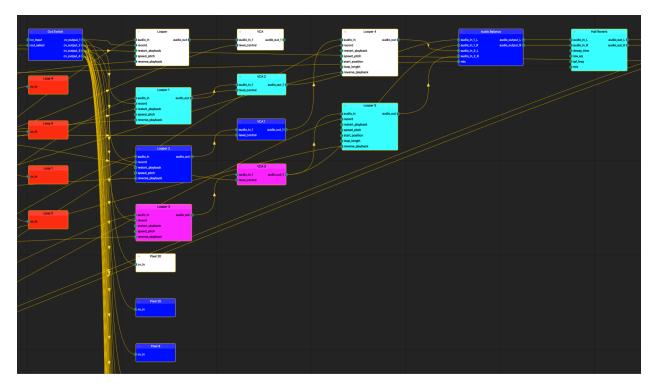


 Module - displays the module name, type, options chosen, parameter values, starred parameters (plus the MIDI CC if assigned), and outgoing connections.



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, and re-import the patch (deleting the old version in the process).

Within the visualizer is a new button, "Expand". Clicking this will construct an expanded view of the patch in a separate window, using a node-graph representation (for our purpose, modules = nodes and connections = edges). Nodes are color-coded to match the grid color used for the module on ZOIA and edges flow from left to right using arrows, aligning with the routing of the patch. There are a number of controls and display options available, which we'll explore in detail next.



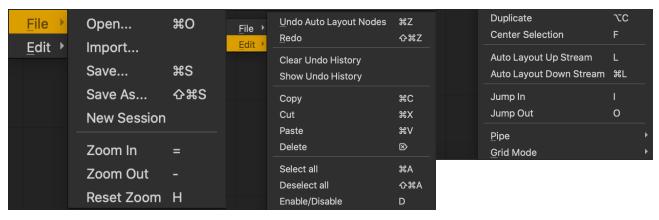
Please note that certain patches may fail to display in the expander panel - this is to avoid overloading the constructor with complex routings it cannot optimally show. Future versions of the app will aim to improve the processing and features of this useful display. Thanks for your patience.

The main interactions with this feature are done by moving, dragging, and zooming. By default, the zoom is minimized to show all the nodes in the graph, but can be adjusted by the scroll-wheel or with the +/- keys (H resets).

Every node and edge is highlighted to start, so clicking and holding your mouse will move the entire graph around the window. You can deselect by clicking anywhere else in the window, or click-and-drag to highlight a group of nodes and edges. To navigate to a specific region of the graph, simply hold the Alt/Option key while moving your mouse.

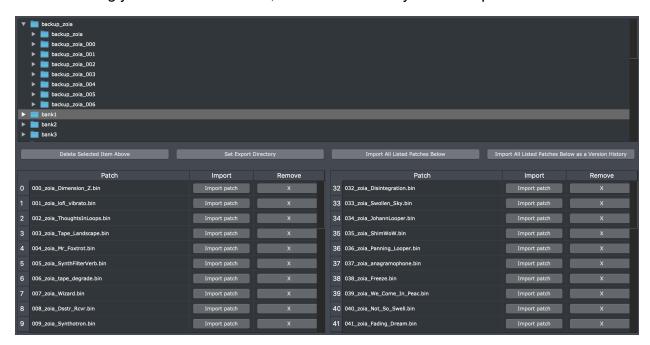
Right-clicking anywhere in the window will bring up the options menu, which features 2 tabs: File and Edit. These show a set of shortcuts and other useful tools to save and edit the graph. In particular, the auto-layout features may be of interest for different ways to view the same routing.

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



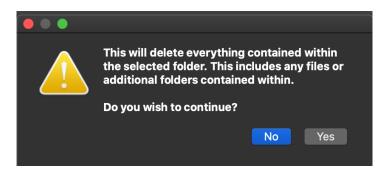
SD Card

The SD Card tab allows you to inspect 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 any of these folders by clicking on the arrow to the left of each folder. Clicking a folder will populate the table below 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 made 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.

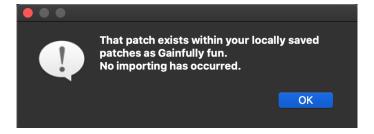


The most useful features in the SD Card tab relate to importing patches into Local Storage. There are three options available. The first is achieved by clicking "Import Patch" next to a patch in the above table. The second and third options apply to importing multiple patches at once. Multiple patches can be mass-imported in one of two ways: as individual patches, which simplifies the steps to import every patch in a given SD Card folder, or as a Version History, for a group of similar patches or ones you wish to treat as a collection.

When the Librarian imports patches, it will attempt to merge patches with the same name as the patches that you have in your Local Storage or ones currently hosted on Patchstorage. This process has two benefits:

- If the imported patch differs from the version in Local Storage, it creates a Version History with the original and new version(s) so you can compare them.
- If the imported patch is one you received from PatchStorage but haven't downloaded yet through the Librarian, it will copy over the patch notes metadata from the site, saving you from having to manually enter that information.

If an exact copy of a single imported patch already exists in your Local Storage, it will not be imported, since there is nothing new to save.

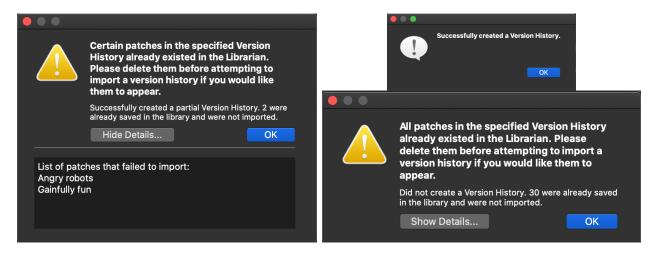


For individual multiples, the import process will save anything without duplicates, and the pop-up will display the number of successes and failures. Clicking "Show Details" will list off the names and locations of the exact copies using a [Version History: Patch] naming scheme. If a patch you're attempting to import does not exist within a version history, it will just have the patch name by itself.

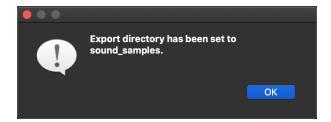




For version imports, the process attempts to create a Version History from multiple patches. There is a caveat here - a version history is meant to be completely unique from individual patches, so any patches in the SD Card directory which exist as individuals will not be included in the resulting history. The pop-up message will detail the failing patches and whether a new Version History was created.



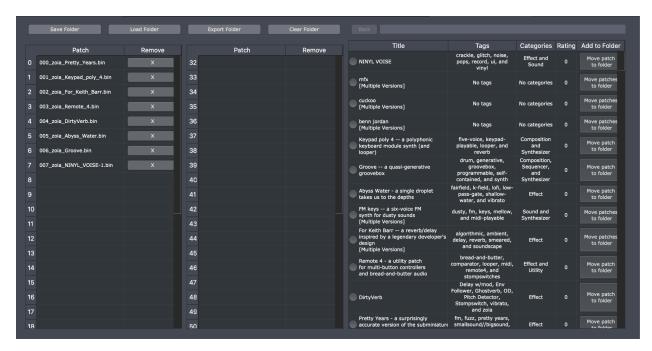
Finally, the newest button is "Set Export Directory", which sets the patch export destination directory for the SD Card used by Local Storage. By default this is set to "to_zoia". It will bring up a directory select window and then confirm the decision.



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 Folders tab comes into play, which will be discussed in the next section.

Folders

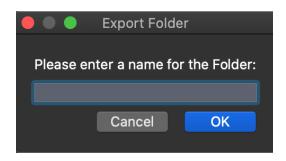
The Folders tab offers a way to work with folders, or collections of patches, both on and off of the SD card.

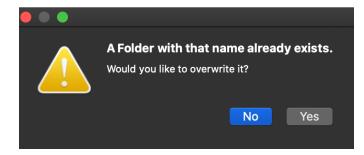


The right side of the screen displays the patches saved within the Librarian. Unlike the Local Storage tab, you cannot modify the patch tags, categories, rating, or patch notes in this view, nor can you delete them. You can, however, still view additional patch information and enter the Version History for patches in the Folders tab. You can also search for patches just as you can in the Local Storage View.

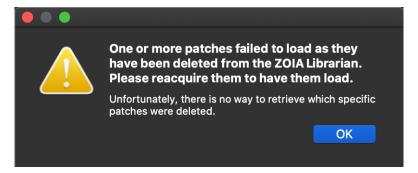
To get started, select a patch from the Local table, and either drag it over to a slot in one of the two folder tables, or click the "Move patch(es) to folder" button for the patch. Once you have patches in the folder tables, you can move them around in the same way as the SD Card tables. If you add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

When you finish making your folder, you can save it using the "Save Folder" button, and/or export it using the "Export Folder" button. Please note exporting cannot occur unless you have specified a SD card location. Whether you are saving or exporting, you will be asked to provide a name for your folder, with an extra confirmation window if the name you select already exists as a folder.





Once your folder(s) are saved, you can use the "Load Folder" button to populate the folder tables with those patches. If you remove patches from your Local Storage that are within a saved folder, they will not load, as they no longer exist on your computer.



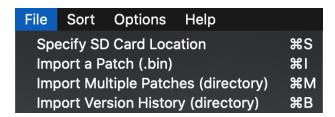
Finally, there is a "Clear Folder" button, which will quickly clear the folder completely (alternatively, you can remove patches from a folder by clicking the "X" button in each row).

That concludes the main functionality within the ZOIA Librarian. The final couple of sections will discuss additional features and what to expect in future versions.

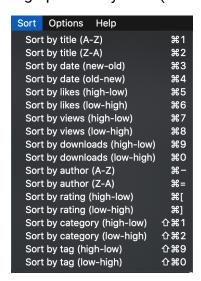
Additional Features

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.

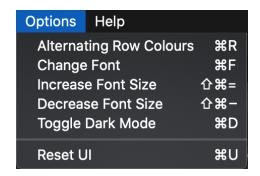
The File menu has been discussed previously, in the context of your SD card location. The other items are for when you'd like to import patch files that exist on your local filesystem. Each one is analogous to the functionality in the SD Card tab.



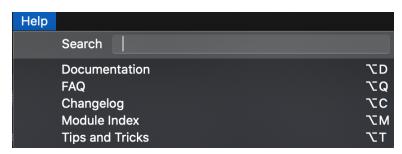
The Sort menu offers ways to sort the various tables in each tab of the Librarian, except for the SD Tab. The default sorting option is by Date (New-Old).

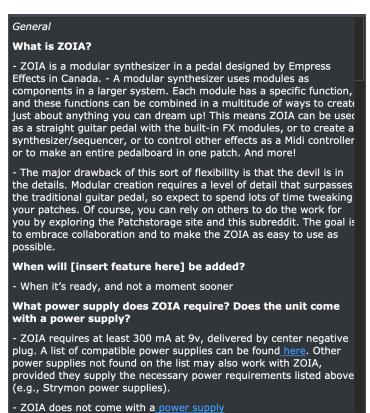


The Options menu is for altering the look and feel of the Librarian, including row inversion, font style and size, dark mode toggle (always on, of course), and a way to reset the UI panels and tables to their defaults.



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 1.2 represents the second major update of the Librarian and includes many notable additions, changes, and bug fixes.

New Features

- Added a Patch Expander view, which displays the full routing of a given patch in a separate UI window:
 - This is accessed by selecting a patch in the Local Storage tab and clicking "Expand" (next to the page +/- and clear buttons).
 - Routing goes from left to right, is color-coded, and shows all connections.
 - You can adjust the auto-layout, move modules and connections around, and save the resulting graph for future reference.
- With the release of the ZOIA Euroburo (Zebu), new modules were added, so the app now supports those.
 - This resolves any issues with viewing, importing, and exporting any patches that originated on Zebu.
- Thanks to an API update, PS tab author search and sort is now possible.
- Table views are now automatically refreshed upon new patch download, import, and deletion.
 - This avoids needing to re-enter a tab or hit enter in the search bar to force a refresh.
- Added support for importing zipped files.
- You can now sort within Version Histories: default is descending version number.
- Updated the module index to reflect a few firmware changes.
- Included the option to sort tables by Tags and Categories.
- Improved message text and UI display.

Fixes

- Fixed an issue where a user could not connect to PS even with internet access.
- Fixed an issue with fetching PS patches (only the recent 100 would show once 1k patches were uploaded to the site).
- Fixed an issue with the Update Patches function where it would fail without warning.
- Fixed an issue with the PS web-scraper related to urllib (Windows).
- Fixed an issue with SD folder selection and exporting.
- Fixed an issue when trying to import a patch into a Version History.
- Fixed an issue related to creating new versions of a patch (would cause Folders to index the wrong file).
- Fixed an issue with sorting related to Version Histories.

- Fixed an issue with the theme toggle, also updated CSS for Windows for better contrast in dark mode.
- Fixed an issue with the Local splitter not snapping to default values on startup (Mac).
- Fixed an issue where deleting all besides one patch in a Version History would disable the back button.
- Fixed an issue related to patch deletion (file would remain due to an error).
- Re-resolved issues with compiling the app (Big Sur).

Known Issues

- The Expander can sometimes fail to fully construct patches due to memory constraints and complex connections.
 - Optimizations will be coming in future updates to the app.

Future Plans

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

- Optimize the Patch Expander by adding color-coding, variable views, and other useful features.
- Continue development on patch editing and creation tools.

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!