



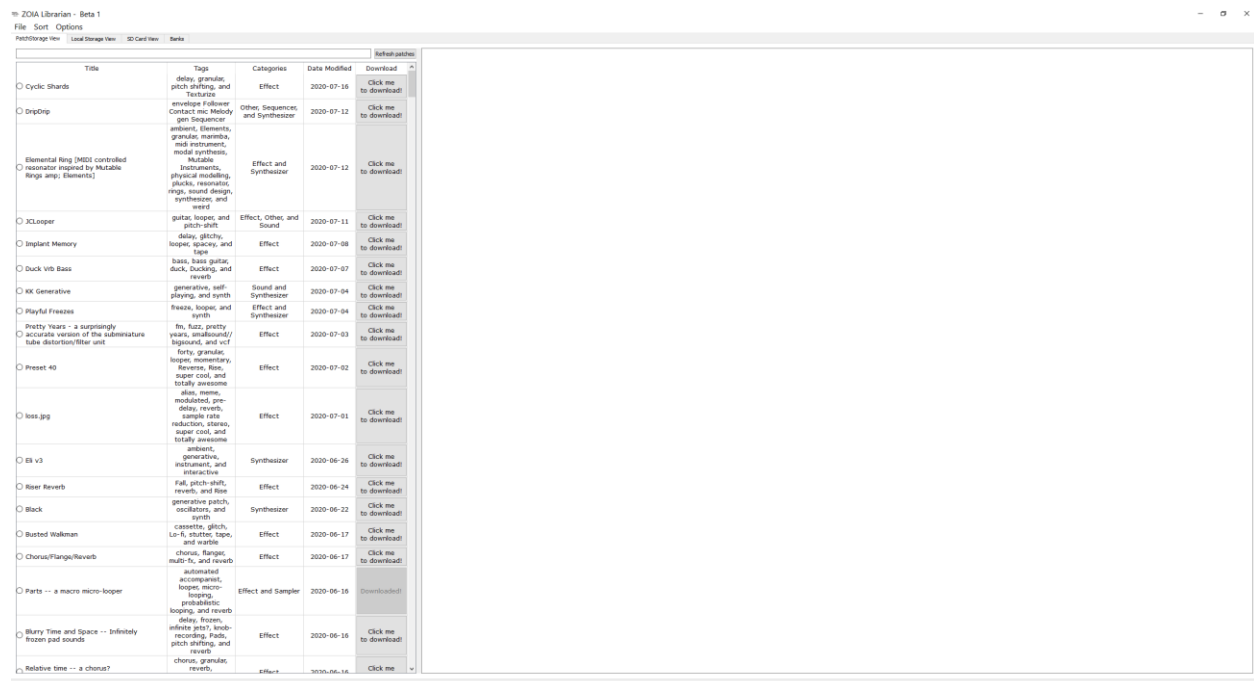
# Librarian

User Manual – Beta 1

## 1.0 Welcome!

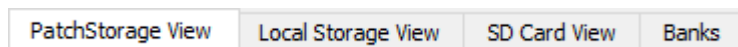
Welcome to the ZOIA Librarian! The ZOIA Librarian aims to make your life using ZOIA much easier. Whether you are a major patch creator or general ZOIA user, the ZOIA Librarian has features that can help all levels of users.

The ZOIA Librarian can be launched via a single executable on Windows or a single application file on OSX. Double-clicking on the ZOIALibrarian.exe or ZOIALibrarian.app file will start the app, where after a brief splash screen you will be greeted with the following screen:



Please note, if this is your first time launching the application, the start-up process may take a little longer than usual as patch information is retrieved from PatchStorage. Subsequent start-ups will not need to retrieve as much information, significantly improving the start-up time.

The ZOIA Librarian is separated into 4 main tabs:



The application launches in the PatchStorage View tab. The following sections will each focus on a specific tab and go over the features contained within each.

## 1.1 PatchStorage View

The PatchStorage View 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 notice a table containing useful information about every patch currently available, including the title, tags, categories, and the date the patch was updated at:

Title	Tags	Categories	Date Modified	Download
<input type="radio"/> Cyclic Shards	delay, granular, pitch shifting, and Texturize	Effect	2020-07-16	<a href="#">Click me to download!</a>

Clicking on the circle to the left of a patch title will populate the right side of the screen with additional information about the patch. This shows off the author, licence, the like, view, and download count, and can even include a clickable preview link (if the patch author has included one):

### Elemental Ring [MIDI controlled resonator inspired by Mutable Rings & Elements]

Author: Anthurium

Likes: 2

Downloads: 57

Views: 278

License: Do What The F\*ck You Want To Public License

Preview: [Click here](#)

#### Patch Notes:

Hello friends, i present to you Elemental Ring -- my ZOIA-fied take on the underlying concept behind the Mutable Instruments Eurorack modules Elements and Rings. It works great for physical modelling sounds like, plucks, bells, strings, percussion and more - the sound design possibilities are vast.

At its core It's a 4-voice polyphonic\* resonator with an inbuilt exciter that functions both as a standalone MIDI controlled instrument, and a stereo audio effects processor. Each voice consists of 3 resonating tuned bandpass filters (12 in total), filter a is panned centre, b and c stronger left and right to create a stereo image.

Like Mutable Instruments Elements, it features an exciter section. This is what you use to pluck/strum/crash/blow the resonating filters to generate sound. The resulting sound of resonating filters depends highly on what audio you hit them with, but non-melodic audio (aka noise) tends to work best due to its broad spectrum.

The exciter section consists of white noise running thru an Aliaser module, into a band pass filter. The output of the exciter has an ADSR envelope and VCA for each of the 4 voices. With the noise unaffected by the Aliaser, a smooth pure sound is possible. As the Aliaser degrades the signal, more textured sounds are available, at its lowest settings, it results in fast percussive pings and dings that sound very granular. With the ADSR settings, we can morph the exciter signal from percussive plucks, right through to beautiful long textured pads. The filter cutoff and resonance provide further sculpting capabilities.

MI's Elements module is monophonic, but I've taken cues from the MI's later module, the extremely popular Rings, and made this have a kind of polyphony that really takes the sounds possible to another level..The best of both designs.

\*To be clear, this is not a truly polyphonic design -- you cannot play chords. However new notes will ring over the top of the previous ones, much like MI's Rings. So if you have a long decay and high resonance settings, you can hit up to 4 notes in quick succession and a chord will sound.

MI's Elements features 64 bandpass filters -- not something we can do on ZOIA so the sounds are ultimately not as complex, but I've included my own twist with the 4 x banks of 3 -- individual control over tuning of each bank of 4 filters a, b and c. This gives you some really fun and quick ways to completely change your sound -- from perfectly tuned notes, to harmonious chords to dissonant percussions.

The beauty of resonator designs is that you can also use your own audio at the exciter -- or mix it with the onboard exciter. This means there's enormous sound design possibilities as it's sound will depend on what you feed into it!

This was an extremely challenging build and by the far the biggest i've done on ZOIA. There's some ZOIA quirks and glitches that made troubleshooting the voice switching pretty excruciating but i'm very happy with the result. There's more I wish i could have done but the CPU is well and truly maxed out.

Anyway, hope you enjoy! And please tag me if you're an instagram user giving it a whirl, i'd love to see :)

i've put up a diaqram of the control layout here - <https://imgur.com/0jtdaZ0>

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. The Local Storage View tab allows you to also search by patch author. To initiate a search, enter what you want to search for and hit “Enter” or “Return”. For example, if you wanted to find all the patches that have “Game” in its title, tags, or category:

Game				Refresh patches
Title	Tags	Categories	Date Modified	Download
<input type="radio"/> PONG	game and pong	Game	2019-10-28	Click me to download!
<input type="radio"/> Game of Life	simulation	Game and Other	2020-04-17	Click me to download!
<input type="radio"/> Exquisite ZOIA Corpse -- a collaborative patch with meanmedianmoge and Mitch Lantz	collaborative patching, happy birthday!, and ZOIA games	Composition	2020-04-15	Click me to download!

To the right of the search bar, there is a button that will allow you to refresh the patch list. It is a good idea to click this if you think you patch list has become out of sync with the patches on PatchStorage. Once it has finished, the status bar at the bottom left of the screen will display the following:

Patch list refreshed!

The main reason to use this tab is to explore and download patches you have an interest in! Fortunately, downloading patches is as easy as hitting the download button to the right of the patch you want to download:

<input type="radio"/> Eli v3	ambient, generative, instrument, and interactive	Synthesizer	2020-06-26	Click me to download!
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Once downloading has completed, the button will update to appear grayed out. This is to make sure you do not accidentally 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 ZOIA Librarian, the button will remain grayed out:

<input type="radio"/> Eli v3	ambient, generative, instrument, and interactive	Synthesizer	2020-06-26	Downloaded!
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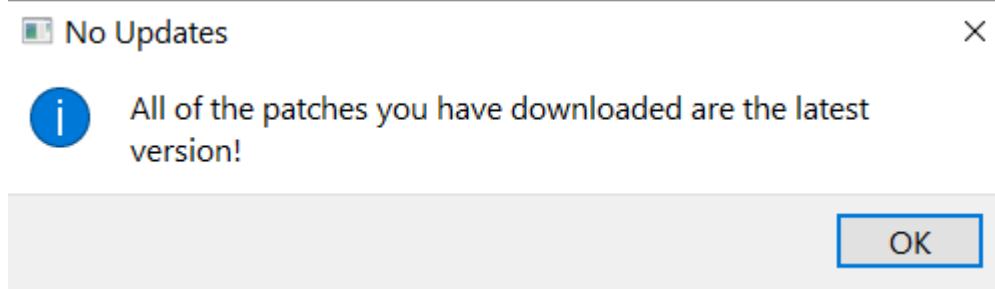
You can view all the patches you have downloaded by switching to the Local Storage View tab, which will be covered in the next section.

## 1.2 Local Storage View

At first glance, the Local Storage View tab will look very similar to the PatchStorage View. However, there are many additional options to explore. Searching behaves just the same as it does in the PatchStorage View, 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:



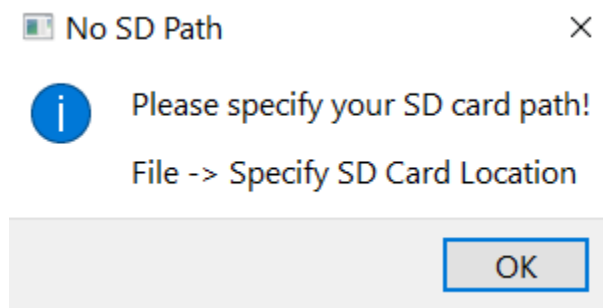
The “Check for updates” buttons will automatically check all the patches you have within the ZOIA Librarian to see if they have been updated on PatchStorage. If they have, updates will automatically be retrieved and saved. Most of the time however, this is the message you will get when clicking the button:



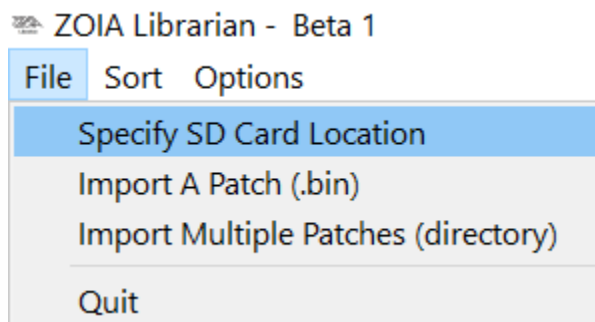
The “Back” button will initially be grayed out. Within the patch table, there are two new buttons to replace the Download button, an Export button, and a Delete Button:

Title	Tags	Categories	Date Modified	Export	Delete
<input type="radio"/> Pretty_Years	effect and delay	Effect and Composition	2020-07-10	Click me to export!	X

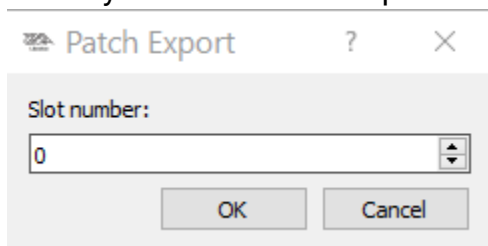
Deleting a patch from the ZOIA Librarian is as quick and easy as clicking on the “X” button for that specific patch. As for exporting, this is most likely what you will see when you click on the Export button for the first time:



To specify your SD Card location, look for the “File” option towards the top left of the screen, click it, and then click “Specify SD Card Location”:



After you have selected your SD card, you can now export patches. Please note that exporting from the Local Storage View tab will export to a folder called “to\_zoia” by default. Clicking on the Export button again should now show the following window, where you can specify which slot you would like to export the patch to:



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.

You may notice that some patches have their Export buttons grayed out. This is because these patches were zip files and contained multiple patch files within them. The ZOIA Librarian automatically unzips these when they are downloaded. To access the Version History view, click on the circle to the left of any patch that has “[Multiple versions]” in its title:

<input type="radio"/>	ZOIA FACTORY PATCHES [Multiple Versions]	ZOIA	Other	2019-05-30	See Version History to export!	X
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Upon entering the Version History view for a patch, you can individually export specific versions and delete them. Additionally, the “Back” button will no longer be grayed out, so whenever you want to exit the Version History view, just click the “Back” button.

On top of the features already mentioned, there are some options to edit the tags, categories, and patch notes of patches within the Local Storage View. To edit the tags or categories of a patch, simply double-click on the cell you wish to edit. Tags and categories are separated by commas. Once you have finished, simply click off the cell or hit Enter/Return:

ated accompanist, looper, micro-looping, probabilistic looping, reverb, new tag, new tag 2|

automated  
accompanist,  
looper, micro-  
looping,  
probabilistic  
looping, reverb,  
new tag, and new  
tag 2

To update patch notes, first select a patch on the left-hand side of the screen by clicking on the circle to the left of its name. Next, type below the Patch Notes: header:

Update Patch Notes
<b>OS_3Track</b> Author: Likes: 0 Downloads: 0 Views: 0 License: None provided Preview: None provided  <u>Patch Notes:</u> Here are some new patch notes!

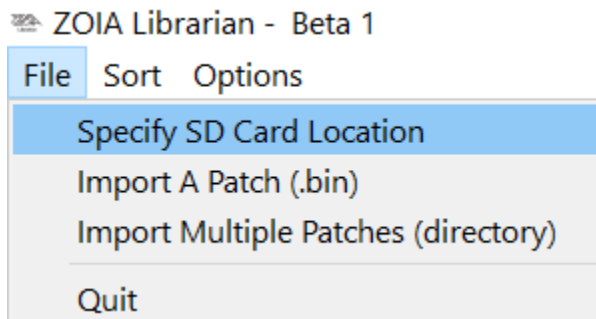
Once you are done, be sure to save you changes by clicking the “Update Patch Notes” button on top of the right-hand side of the screen.

Please note, anything written above the Patch Notes: header will not be saved. There are plans to change this in future Beta builds of the ZOIA Librarian. Additionally, tags and categories cannot be modified for patches that contain multiple versions, but each version can have their tags and categories individually modified. Finally, deleting a patch with multiple versions will delete all the versions unless you are in the Version History for said patch, at which point you can delete each individual patch contained within.

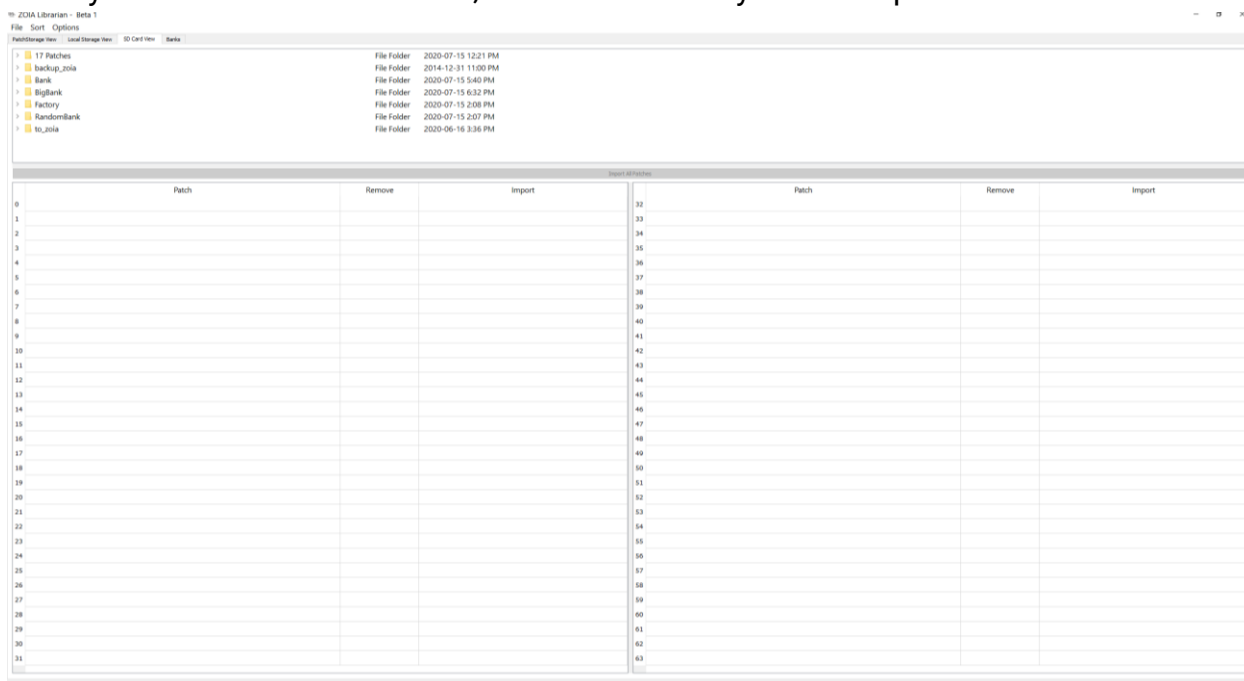
Now that you have some patches exported, you may wish to move them around on your SD card. This is where the SD Card View comes into play, which will be discussed in the next section.

## 1.3 SD Card View

The SD Card View gives you a look into the directories located on an 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”:

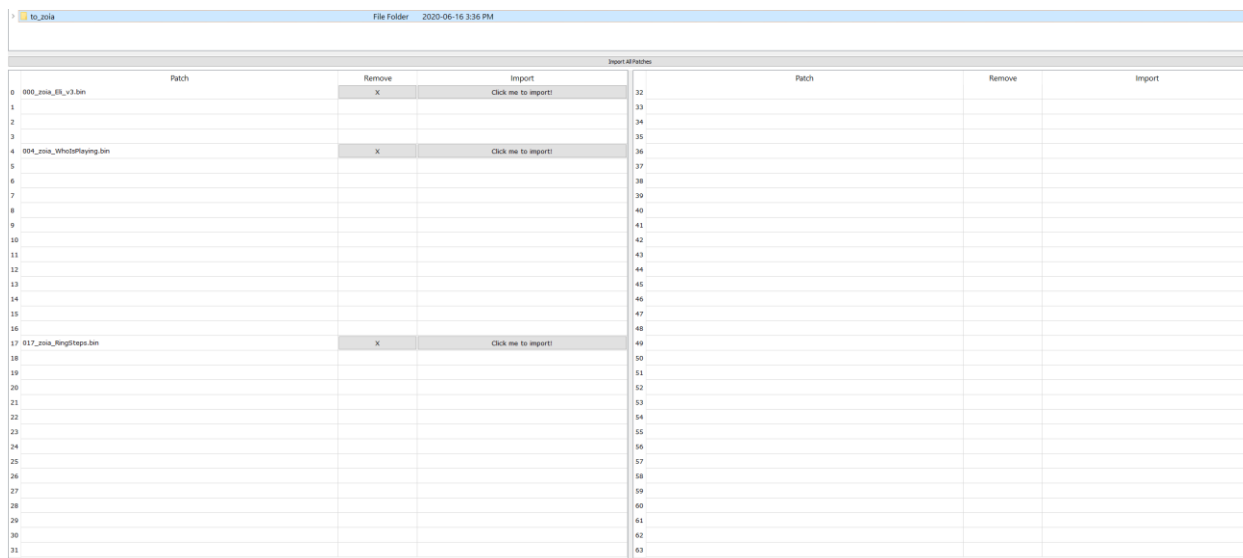


Once you enter the SD Card View, this is the screen you will be presented with:

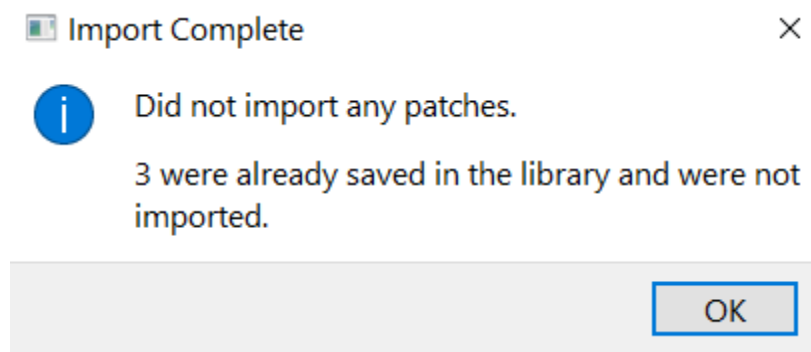




The section of the screen gives you a view of all the folders located on the SD card you specified. You can expand these folders if need be by clicking on the arrow to the left of each folder. However, if you want to have the patches contained within a folder fill the bottom half of the screen, simply left click on the folder you want to view:



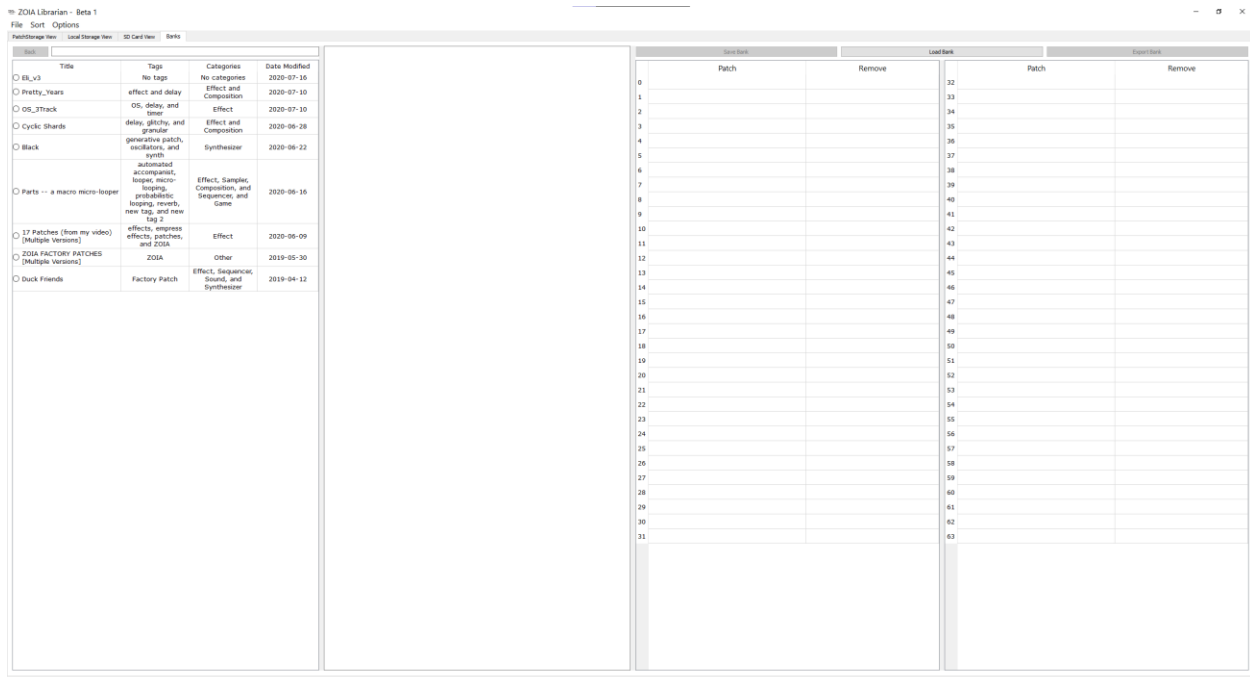
You can now move patches by dragging and dropping them into different slots on the SD card. You can also remove a patch from your SD card, or if it is a new patch, you can import it using the Import button. You can also mass import all patches by using the “Import All Patches” button. Please note, if you already have the patches saved in the ZOIA Librarian, the following message will appear:



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

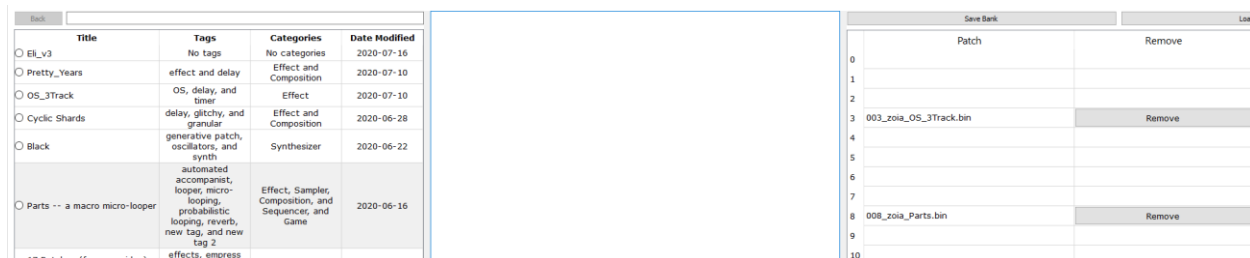
## 1.4 Banks

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



On the left half of the screen, you can view patches saved within the ZOIA Librarian. You can not 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 View tab. You can still view additional patch information and enter the Version History for patches in the Banks tab. You can also search for patch just as you can in the Local Storage View.

To get started created a bank, select a patch, and drag it over to a slot in one of the two tables of the right-hand side of the screen:



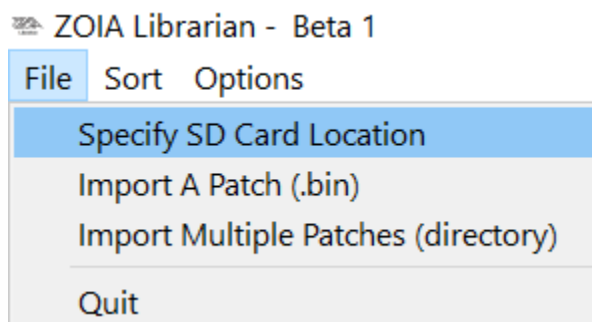
From here, you can move these patches around as you could in the SD Card View. If you drag over a patch that has multiple versions contained within it, it will automatically populate the table with all the patches contained within:

17 Patches (from my video) [Multiple Versions]	effects, empress effects, patches, and zoia	Effect	2020-06-09
<input type="radio"/> ZOIA FACTORY PATCHES [Multiple Versions]	ZOIA	Other	2019-05-30
<input type="radio"/> Duck Friends	Factory Patch	Effect, Sequences, Sound, and Synthesizer	2019-04-12

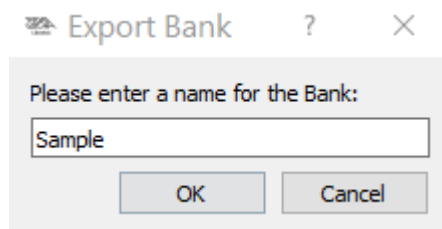
  

10		
11		
12		
13		
14	014_zoia_EnvelopeTrem.bin	Remove
15	015_zoia_GranularVerb.bin	Remove
16	016_zoia_VibratoFlange.bin	Remove
17	017_zoia_RingSteps.bin	Remove
18	018_zoia_WhoIsPlaying.bin	Remove
19	019_zoia_MorphDrive.bin	Remove
20	020_zoia_PitchTape.bin	Remove
21	021_zoia_Ramp_Flanger.bin	Remove
22	022_zoia_DelayFxLoop.bin	Remove
23	023_zoia_AliasVerb.bin	Remove
24	024_zoia_StepFilterFdbck.bin	Remove
25	025_zoia_Reverb_LFO.bin	Remove
26	026_zoia_EnvFX.bin	Remove
27	027_zoia_MomentaryFuzz.bin	Remove
28	028_zoia_ParallelPhaser.bin	Remove
29	029_zoia_PannedChvFilt.bin	Remove
30	030_zoia_EnvToLoop.bin	Remove

Once you are finished making your Bank, you can either save it using the “Save Bank” button, or export it using the “Export Bank” button. Please note exporting can not occur unless you have specified your SD card. 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”:



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.

## 1.5 Additional Features

There are some additional features that are available in the ZOIA Librarian, such as patch importing options, sorting options, and a table row inversion option. We hope these features makes using the ZOIA Librarian even easier for you.

## 1.6 Future Plans

As this is an initial beta, there is still a lot of work to be done. The overall look and feel of the ZOIA Librarian is pretty bare right now, so if you have any suggestions surrounding the design of things, please let us know. For Beta 2, here are some of the planned features we hope to add:

- Saving application settings when you quit (so you will not need to re-specify your SD card every time if its in the same spot as before).
- Adding font options (such as the ability to scale the size and change the font that is used in the tables).
- Adding accessibility text to everything in the ZOIA Librarian.
- Adding the ability to update the author, preview link, and licence for patches in the Local Storage View.
- Improving the patch preview page to include images authors have uploaded alongside their patches.
- Adding the ability to drag and drop multiple patches at a time in the SD Card View and Banks tabs.
- Performance improvements to prevent the application from freezing up when certain actions have taken place (such as checking for updates or refreshing the PatchStorage patch list).

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!