

## The definitive guide to switch custom firmware

### Prep Work:

1. R4S Dongle



2. R4S Jig

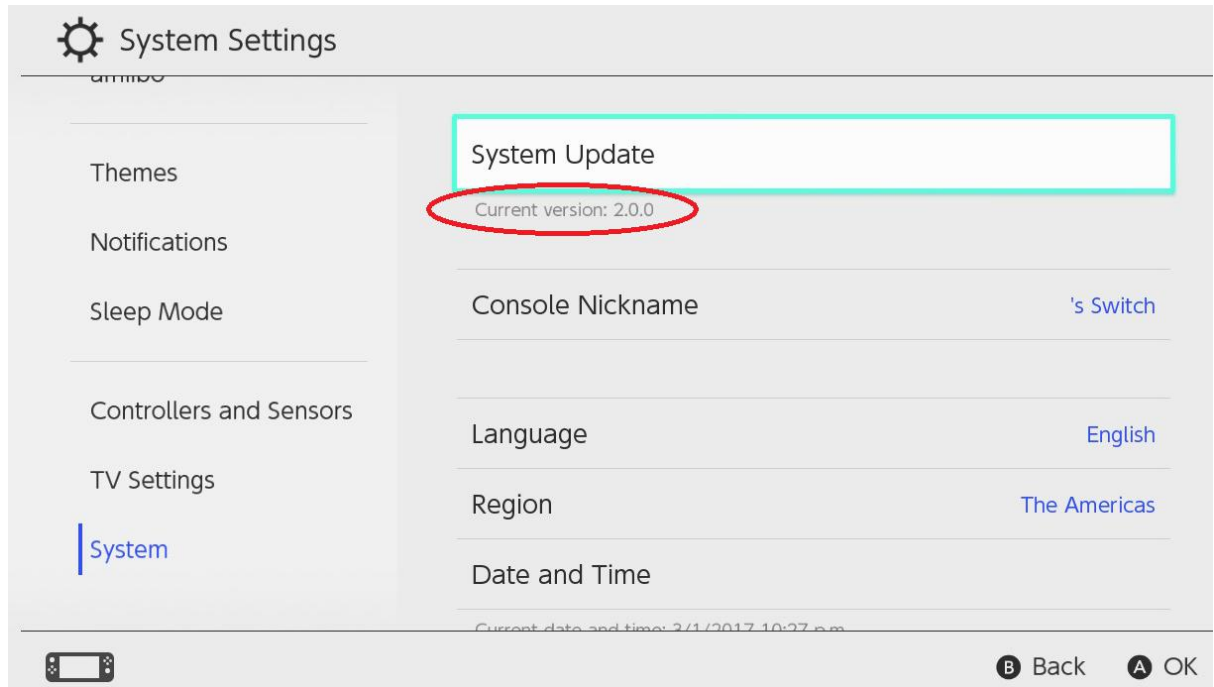


3. One MicroSD card.



## Let's get started.

### I : Download Software



Check your Switch system software version. Select software for your Switch( first digit of system version). For example, download 2.x.zip for the system as shown in the picture above.



Download link:

For switch 2.x <https://ufile.io/6eudj>

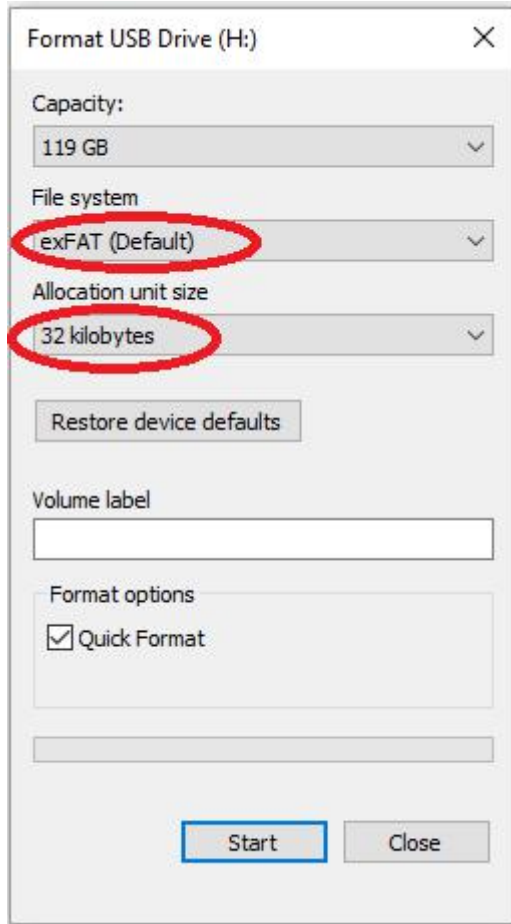
For switch 3.x(except 3.02 nsp support) <https://ufile.io/vpbee>

For switch 4.x <https://ufile.io/zt2f6>

For switch 5.x <https://ufile.io/jobvz>

## II : Format Micro SD Card

Use the option in the picture shown below:



**PS:** Switch doesn't support exFAT by default. Before next step, please put micro SD card inside switch SD card slot. System will prompt to update system patch after power on. You can connect to internet to update exFAT support. Offline update exFAT support is possible, please Google "How to install the exFat Update without updating your Switch".

III: Extract downloaded zip file to root of SD file and put micro SD card into switch SD card slot.

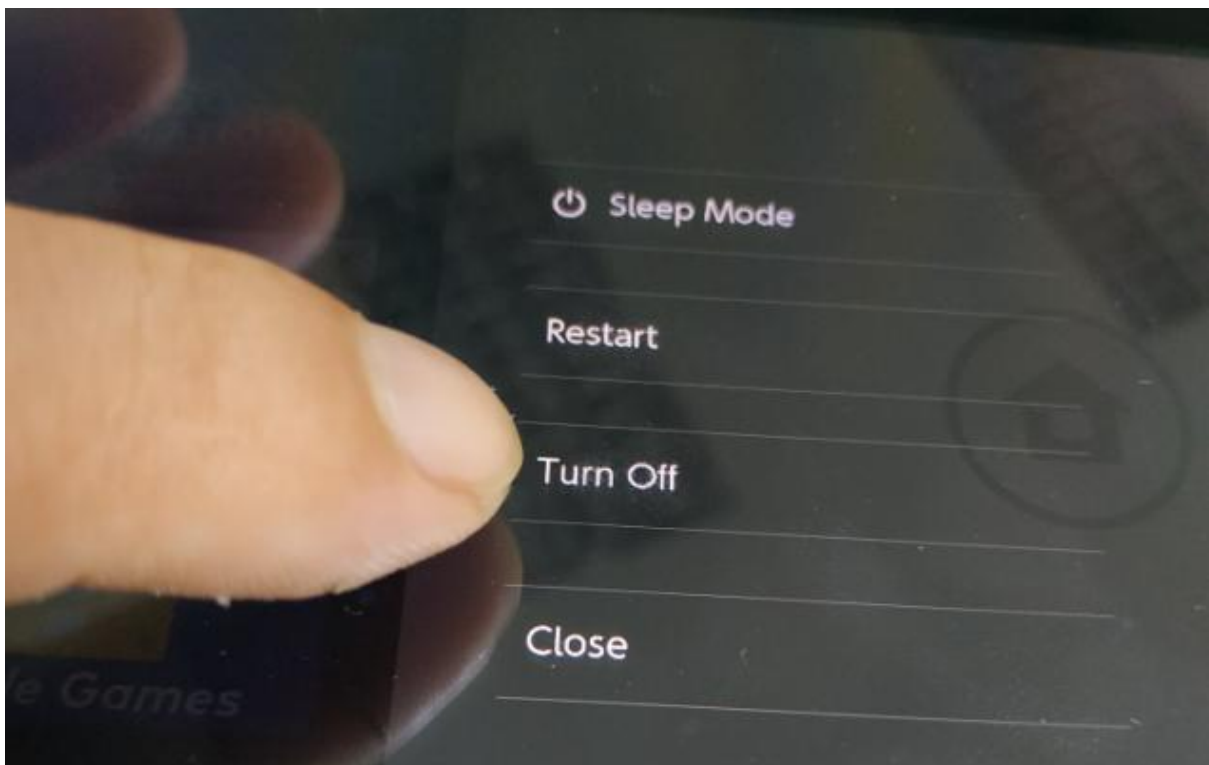
Make sure the contents in the SD card like this:

atmosphere	2018/8/1 9:28	文件夹	
Backups	2018/8/1 9:28	文件夹	
EdiZon	2018/8/1 9:31	文件夹	
modules	2018/8/1 9:31	文件夹	
Nintendo	2018/8/1 9:31	文件夹	
NSP	2018/8/1 9:31	文件夹	
switch	2018/8/1 9:31	文件夹	
tinfoil	2018/8/1 9:31	文件夹	
_plague_table	2018/7/31 17:59	文件	1 KB
bootlogo.bmp	2018/7/5 21:38	看图王 BMP 图片...	3,601 KB
hbmenu.nro	2018/7/22 0:39	NRO 文件	1,491 KB
hekate_ipl.ini	2018/7/22 14:35	配置设置	2 KB
info.json	2018/3/2 18:20	JSON 文件	1 KB
manifest.install	2018/5/29 21:55	INSTALL 文件	1 KB

#### IV: Boot customer firmware

1. Turn off your switch console.

Hold power button till the following screen appear, press Power Off.



2. Remove the right Joycon from the switch console and slide the jig tool all the way down to the end.



3. Insert the R4S dongle into the USB-C port on the bottom of the Switch.



# R4<sup>S</sup>

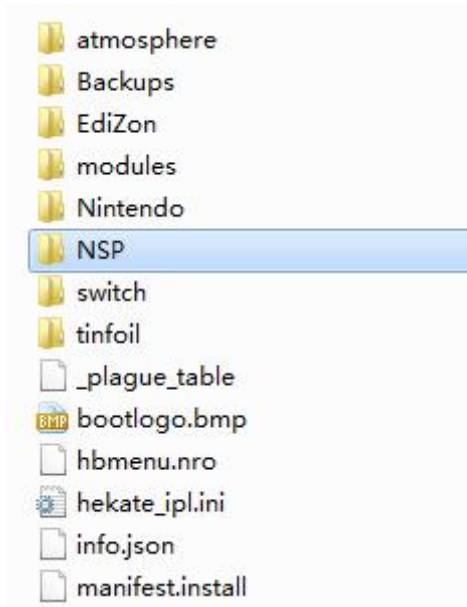
[www.r4i-sdhc.com](http://www.r4i-sdhc.com)

4. Hold the VOL + button and power button to turn on the Switch, the red led on the dongle will be light, and the system should boot into the customer firmware.

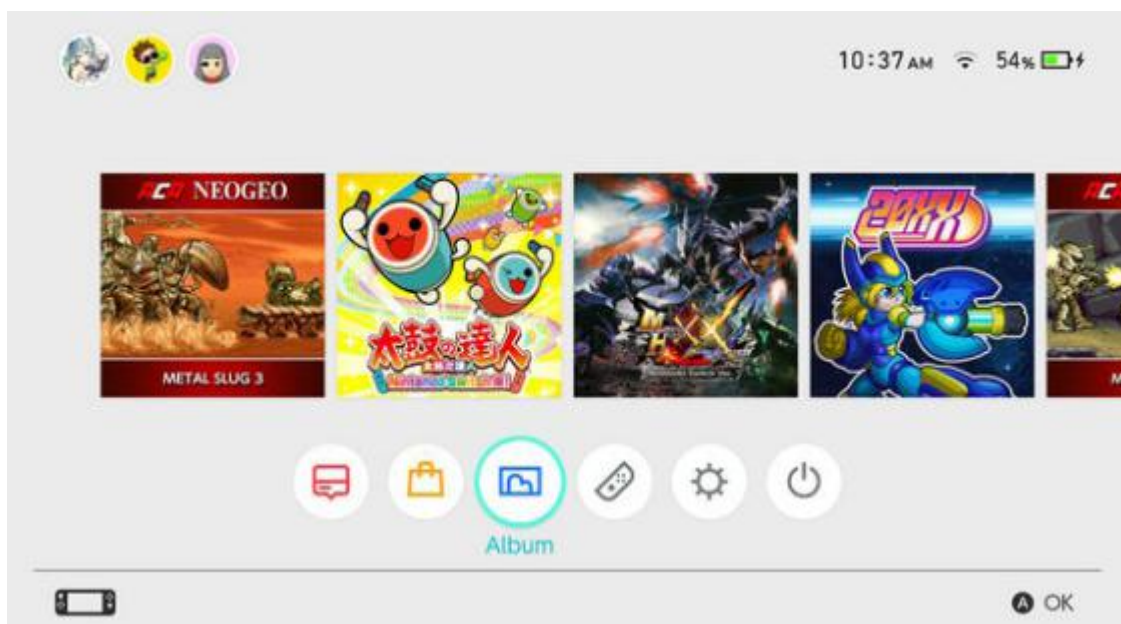


## Install NSP game

1. Power off console, remove SD card from console, put SD card into PC. Copy NSP files to the NSP folder of SD card.



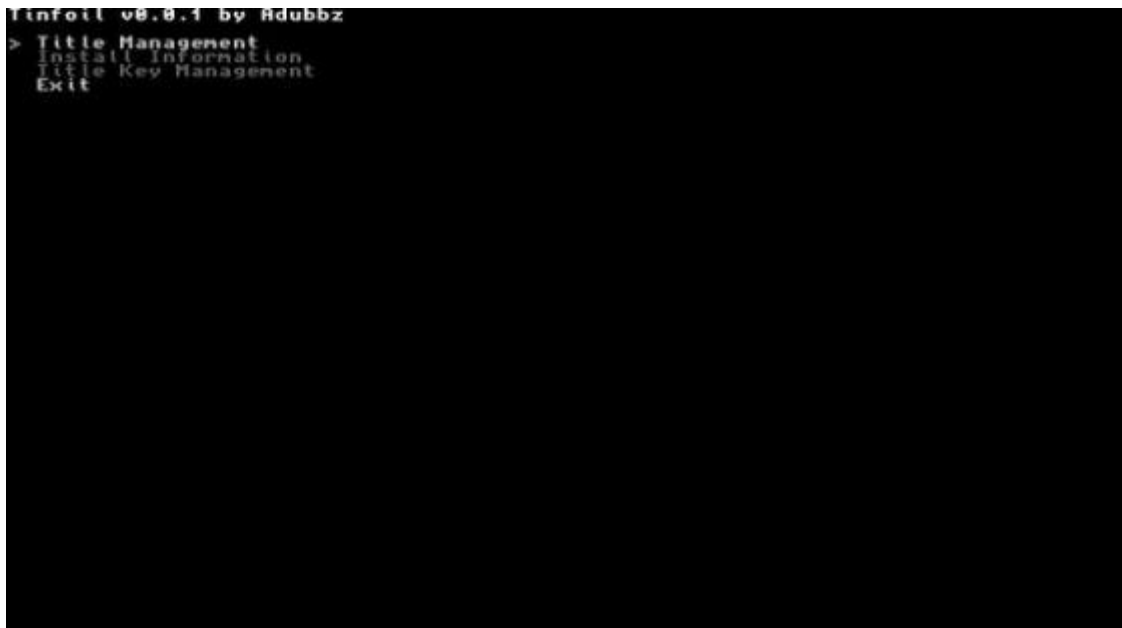
2. Insert SD card to the console, repeat **step IV** boot up system.
3. Click "Album"



Click "Tinfoil" in the next screen as shown in the picture below:



4. Tinfoil UI will be shown as following:

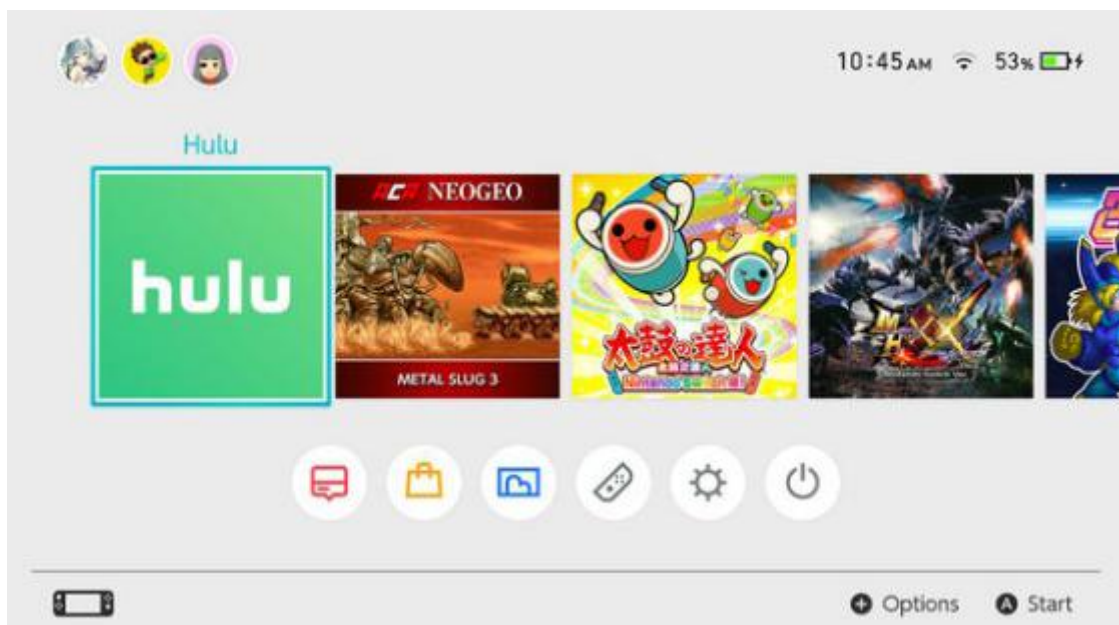




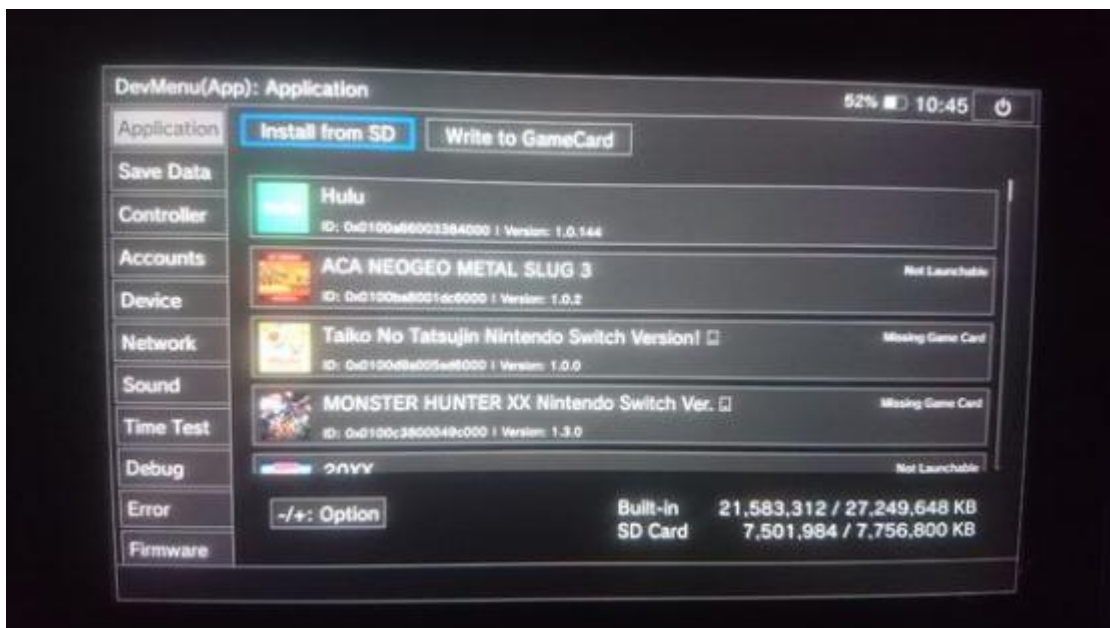
5. Select Title Management->Install NSP-> HULU.nsp.  
Wait for Done! appear which means installation finished successfully.

```
> Reading cnmt.xml...
Parsing cnmt.xml...
Creating and registering NCA placeholders...
Installing 697f8b61eb553d36c454ca484e582e64.nca
Registering placeholder...
Installing c351781d1a91ab629c7424e9427bacd7.nca
Registering placeholder...
Installing 6143be28466f52df5734897426589c82.nca
Registering placeholder...
Installing ecd58af1381b665f4e8b4c512c785e76.nca
Registering placeholder...
Writing content records...
Installing ticket and cert...
Pushing application record...
Done!
```

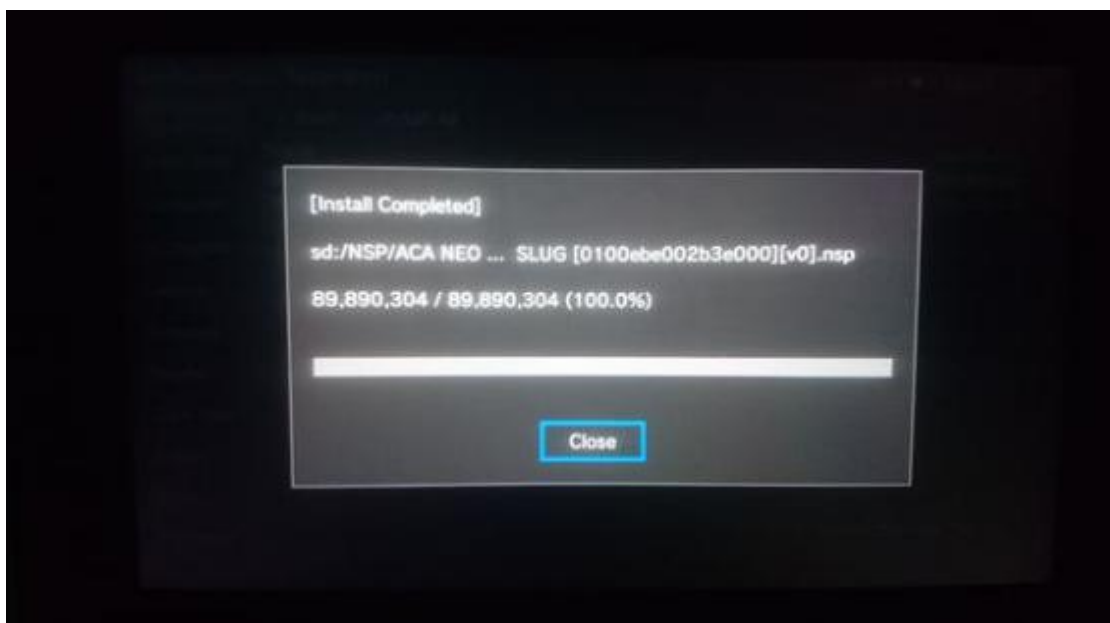
6. Go back home screen by press Home button. A new HULU icon will come out.  
Open it.



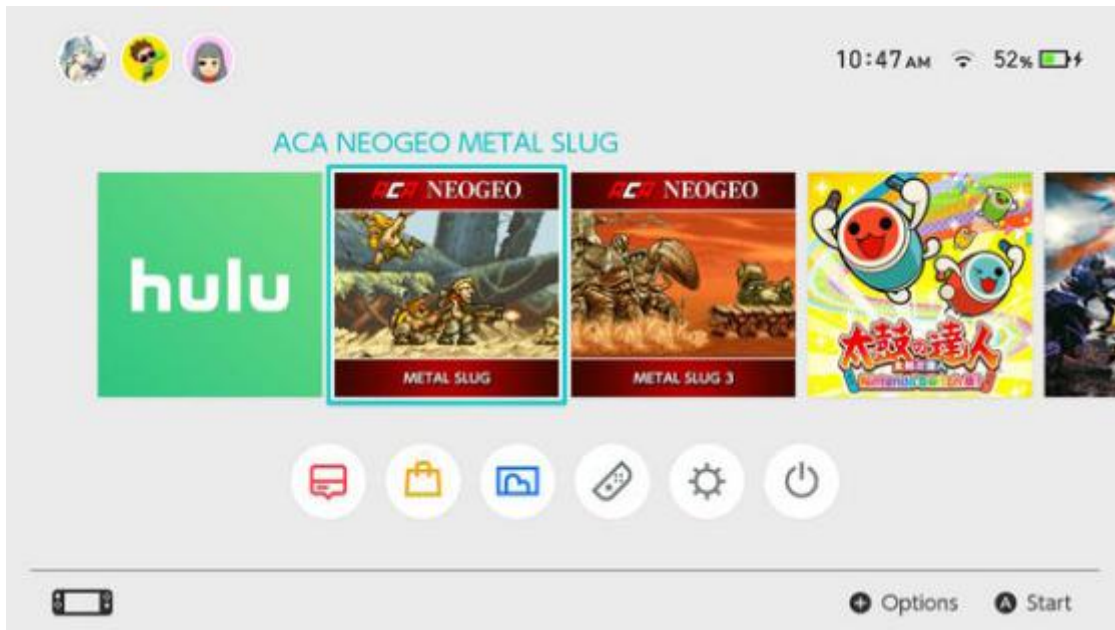
7. Now devmenu will come out, click on "install from SD", NSP files list shows the files inside NSP folder of SD card



8. Select nsp file from the list, press A to start installation.

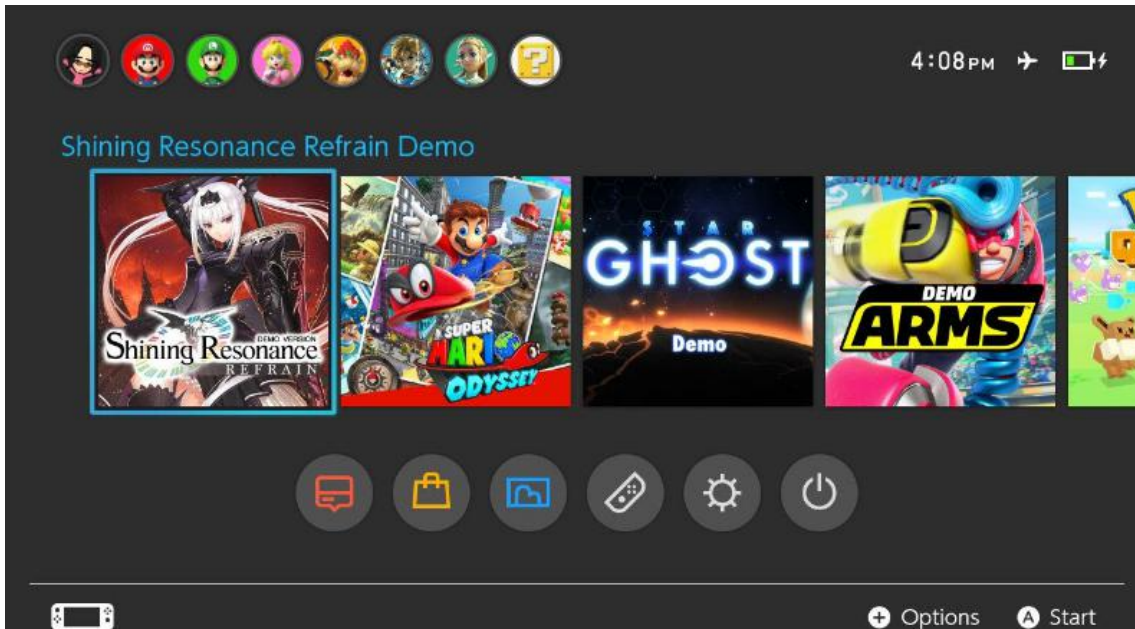


9. Go back home screen by press Home button. Close Hulu, A game icon will come out.



## Install XCI game

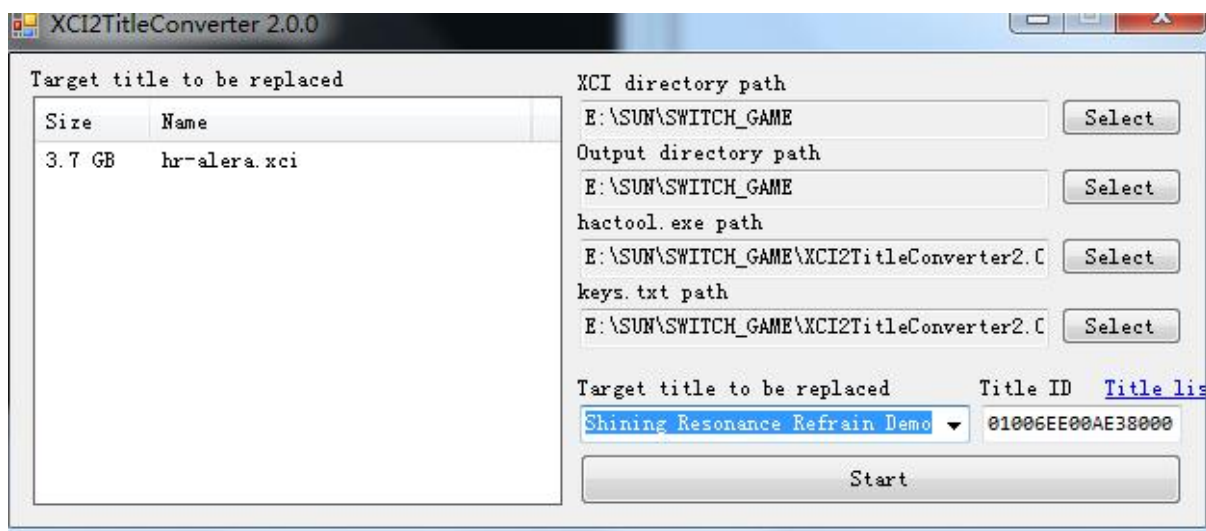
1. Down free DEMO game, US version of "Shining Resonance Refrain Demo" is recommended.



2. Convert download xci file in PC using one-key-conversion tool.  
([download link:https://ufile.io/lu5t0](https://ufile.io/lu5t0) )

### Note:

- i. One-key-conversion tool doesn't support non standard characters and space, make sure the xci files and target npdm files and directories don't have non standard characters and space.
- Ii. When conversion finish,Title id will be shown. If no Title id shown, means either wrong xci file, or the file name or directory name problem as described in note i.



3. If there is no error, a new title id directory will be created.

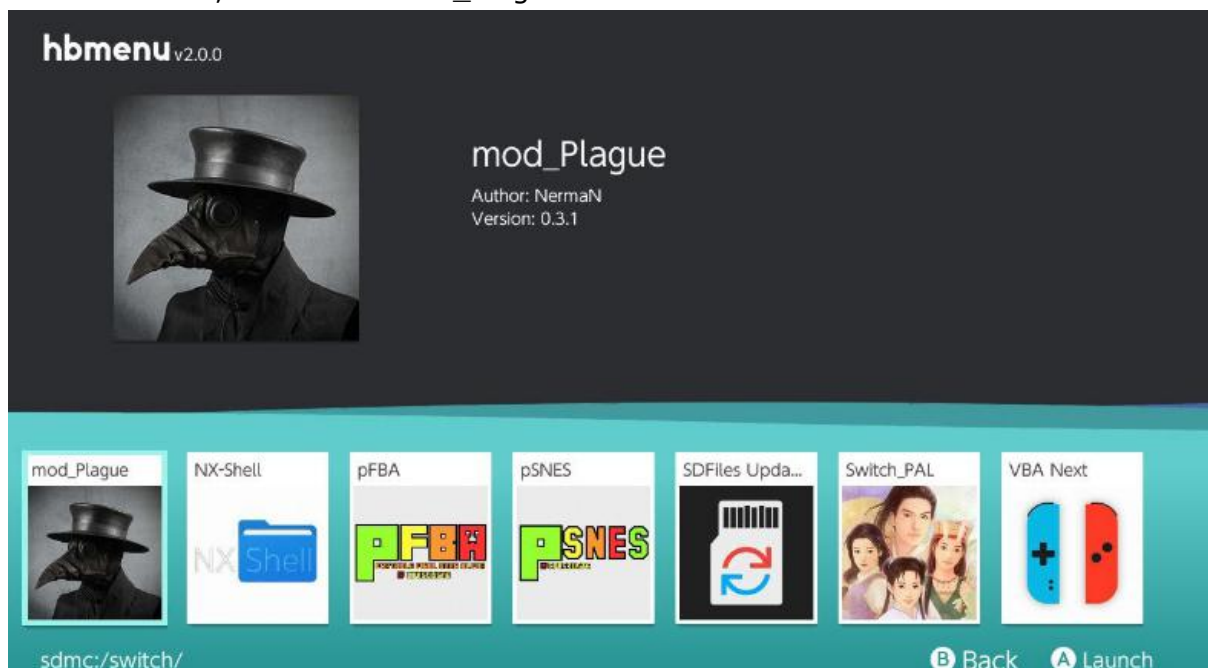
01006EE00AE38000	2018/8/1 14:33	文件夹
XCI2TitleConverter2.0	2018/8/1 14:33	文件夹
hr-alera.xci	2018/7/13 12:12	XCI 文件

4. Copy newly created title id directory to the Backups directory of SD.

atmosphere	2018/8/1 9:28
Backups	2018/8/1 9:28
EdiZon	2018/8/1 9:31
modules	2018/8/1 9:31
Nintendo	2018/8/1 9:31
NSP	2018/8/1 9:31
switch	2018/8/1 9:31
tinfoil	2018/8/1 9:31
_plague_table	2018/7/31 17:59
bootlogo.bmp	2018/7/5 21:38
hbmenu.nro	2018/7/22 0:39
hekate_jpl.ini	2018/7/22 14:35
info.json	2018/3/2 18:20
manifest.install	2018/5/29 21:55

5. Insert SD card to the console, repeat **step IV** boot up system.

6. Click Album, then click "mod\_Plague".



7. The following screen will appear.

```
Atmosphere mod Plague backup selector v0.3 by Nerman
[Current redirections: ]

Dead entries: 1
Press X to add new redirection
Press Y to remove redirection
Press A to change current selected redirection
```

Press "X" key, then select "Shining Resonance Refrain Demo".

```
Installed titles list: ]
Shining Resonance Refrain Demo - 01006ee00ae38000
SUPER MARIO ODYSSEY - 0100000000010000
Star Ghost Demo - 01005ae00a528000
ARMS Demo - 0100a5400ac86000
Pokémon Quest - 01005d100807a000
INVERSUS Deluxe Demo - 010009100845a000
Panic! at the Disco - 0100b9400654e000
Happy Birthdays DEMO - 010096e008baa000
MIGHTY GUNVOLT BURST DEMO - 010045b00849c000
Super One More Jump Demo - 010088f00ad80000
Lode Runner Legacy Demo Version - 010086500ac4a000
Kid Tripp Demo - 010093e00acb0000
Fallout Shelter - 010043500a17a000
Oceanhorn Demo - 010090b005150000
Urban Trial Playground Demo - 010040b00ae0e000
EARTH WARS - 01009b7006c88000
VOEZ Demo - 01008d00062c2000
Heroes of the Monkey Tavern demo - 0100f4f006eb0000
Heroes of the Monkey Tavern demo - 01006bb0091f4000
Pic-a-Pix Deluxe Σ#60267Eε - 0100df000a188000
Pic-a-Pix Deluxe Demo - 0100aac008ada000
DRAGON QUEST BUILDERS (Demo) - 0100d59006266000
Violett Demo - 01003b2009d18000
Vostok Inc. - 01004d3007368000
Dark Mitch Music Episode: Rudydymical Demo - 010047a008760000
BLAZBLUE CROSS TAG BATTLE - 0100c6e00af2c000
Regis Defenders Demo - 010064500af72000
The Bridge Demo - 0100e3500b00e000
```

8. Press "A" key, Select the newly copied title id folder.

```
[Backups: ]
01006EE00AE38000
```

9. Press "A" key all the way.

```
npdm path: sdmc://backups/SteamWorld Dig 2/exefs/main.npdm
Current NPDM title id: 01006ee00ae38000
Replacing with: 01006ee00ae38000
Press A to continue
```

10. When the screen shown below appear, installation is complete successfully. Congratulations!

Press "HOME", load new game by select 'Shining Resonance Refrain Demo' enjoy! !

```
Atmosphere mod Plague backup selector v0.3 by Nerman
[Current redirections: ]
Shining Resonance Refrain Demo (01006ee00ae38000) => SteamWorld Dig 2
Dead entries: 0
Press X to add new redirection
Press Y to remove redirection
Press A to change current selected redirection
```