

-with Pasta-

Contents

Building	3
Using Theme Tool	
Installing rxTools	
Launching rxTools	5
Launching via the browser	
Launching via MSET	6
Launching via Ninjhax	6
The first boot	6
The menu	7
rxMode	7

Building

To build rxTools, you need the following programs:

- git (download for Debian/Ubuntu here)
- <u>devkitPRO with devkitARM</u>¹ (tutorial for Linux here)
- ImageMagick (download for Debian/Ubuntu here)

On Windows, you also need:

- GCC²
- <u>Python</u> 2.7

Before proceeding, you should make sure that devkitARM/bin is in your PATH.

On GNU/Linux, open a Terminal and type:

echo \$PATH

Look for /opt/devkitpro/devkitARM. If it is missing, run the following command: echo "export PATH=\\$PATH:\\$DEVKITARM/bin" >> ~/.bashrc then close the Terminal and try again.

On Windows, open a Command Prompt and type:

echo %path%

Look for C:\devkitPro³\devkitARM\bin. If it is missing, run the following command: setx PATH "%PATH%;C:\devkitPro\devkitARM\bin" then close the Command Prompt and check again.

In some cases, you may need to log off or reboot in order to apply the changes.

To clone the repository, run the following command:

git clone --recursive https://github.com/roxas75/rxTools.git

Then cd to the rxTools folder:

cd rxTools

And build rxTools:

make

make theme

¹ Windows: with suboptions installed. In case make.exe fails with stack trace dump, install GnuWin Make and place it in path before devkitPRO/msys/bin.

² MinGW with mingw32-base is fine.

³ Change this with the path where you have installed devkitPro.

Using Theme Tool

Theme Tool allows theme creators (and developers) to convert all images to PNG or BGR (.bin), to reduce the size of the PNG files and to create a preview of a theme (animated GIFs and static PNGs). It is included in the *theme/O* folder of rxTools, so you can start creating your theme right away. You can also find it in the *tools* folder of the repository.

Theme Tool must be run via a Terminal/Command Prompt inside the theme folder.

In order to use Theme Tool, you need to install:

• ImageMagick (download for Debian/Ubuntu here)

List of available commands for Theme Tool:

- makebgr <file.png>: converts a .png file to .bin (BGR).
- makebgr-all: converts all .png files to .bin (BGR).
- makepng-all: converts all .bin (BGR) files to .png. If you are creating a theme and you need a template, this is the first command you should use.
- makeprev [gif-delay]: creates a preview (animated GIFs and static PNGs) of your theme in the "Preview" folder. An Internet connection is recommended the first time to download the New Nintendo 3DS XL frame, which will be saved as "~/hero-new-3ds.png".
- strippng-all: removes unnecessary data from all PNG files.

For instance, to convert all .bin files of a theme to .png, run: sh themetool.sh¹ makepng-all

Then you can start working on your theme. Once you are done with that, you probably want to convert the new theme to .bin, generate a preview² and remove the .png files:

sh themetool.sh makebgr-all sh themetool.sh makeprev rm³ *.png

A folder containing several GIF and PNG files will be created.







¹ On Windows, replace this with *themetool.bat*.

² An Internet connection is recommended the first time.

³ On Windows, replace this with *del*.

Installing rxTools

Before installing rxTools, you need to download firm folder using scripts/****_cdn firm.py

(**** is your 3DS model).
To install rxTools, simply copy *the firm folder* into rxTools folder and put it to your SD card. Put any additional themes to rxTools/theme/n (where n is the a number from 0 to 9). If you are using Ninjhax, copy rxTools.3dsx and rxTools.smdh to the 3ds folder. If your console's firmware version is below 8.0, you need to copy slot0x25KeyX.bin to your SD card in order to launch an updated emuNAND or to decrypt newer games.

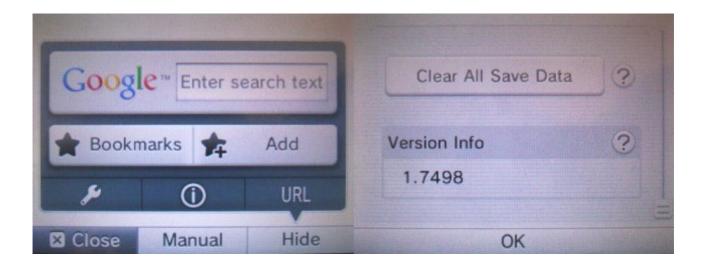
Launching rxTools

There are several ways to launch rxTools. None of them currently work on if the console's firmware is above 9.2 or below 4.0.

Launching via the browser

If you have a classic Nintendo 3DS or Nintendo 2DS, you can launch rxTools via the browser. The last digit of your console's firmare version must not be 0 (e.g. 9.2.0-20E is compatible, whilst 9.2.0-0E is not).

- 1. Open the browser settings and select Clear All Save Data.
- 2. Turn off Wi-Fi and go to the URL http://dukesrg.github.io/?rxTools/sys/code.bin.
- 3. Close the browser, turn on Wi-Fi and open the browser again.
- 4. The next time you open the browser, it will load rxTools automatically.



Updates must be unblocked. On Windows, you need Python. On GNU/Linux and OS X, open a Terminal, type, without quotes, "python", then drag&drop cdn_firm.py there and press Enter.

Launching via MSET

This method only works on Nintendo 3DS, Nintendo 2DS and New Nintendo 3DS.

If your console's firmware is above 4.5, you need to downgrade the System Settings app from the rxTools menu. Also, not all firmware versions are supported. If it doesn't work for you, then downgrade to 4.5 or upgrade to 9.2.

In order to install the MSET exploit, you need to copy *rxinstaller.nds* to the microSD of a DS-mode flashcard or, if you have Sudokuhax installed, to the SD of your console.

Run *rxinstaller.nds*, then select the exploit version to install and press A. The exploit gets removed every time you launch a Nintendo DS(i) or DSiWare game. In that case, you will have to repeat the procedure before trying to launch rxTools via the MSET exploit.



To launch rxTools via the MSET exploit, open System Settings, then go to Other Settings → Profile → Nintendo DS Profile.

Launching via Ninjhax

Like the browser exploit, this method does not currently work if your console's firmware version's last digit is 0. You need an Internet connection to install Ninjhax to your save.

Put *rxtools.3dsx* and *rxtools.smdh* into the *3ds* folder of your SD card (create it if it does not exist). If you have not yet, install Ninjhax to your save of Cubic Ninja.

To launch rxTools, open Cubic Ninja, then go to Create → QR Code → rxtools.3dsx.

The first boot

When you launch rxTools for the first time, it will install additional data to speed up the next boots.



The menu

When you launch rxTools, it will automatically boot into rxMode. To show the menu, simply hold L while launching rxTools.

rxMode

This mode patches signature and region checks, allowing you to launch unsigned and outof-region software, and reboots to emuNAND or sysNAND.

PastaMode

This mode patches signature checks, allowig you to launch unsigned software, and reboot sysNAND.

