

The Ultimate Nintendo Wii Hacking Guide (2013)

By AwesomeMarioFan



--- Things you'll need:

- A Wii (Obviously)
- An SD Card (1GB+) (2GB Preferred)
- A Computer
- A USB Hard Drive for Game Backups (Optional)
- At least 1 Wii Remote
- Gamecube Controller (Required for GameCube Backups) (Optional)
- A USB keyboard/mouse (For Wii Linux) (Optional)
- WinRAR (<http://www.rarlab.com/download.htm>)
- NUSDownloader (<https://code.google.com/p/nusdownloader/>)
- Blank DVD -Rs (For Game Backups)

The main parts of this guide will take approximately 1 hour to 1 hour and 30 minutes to complete correctly. Please set aside some time and read through the guide a few times before proceeding to minimise the risk of possible damage to your Wii.

Note: I am not responsible for any damage to your Wii by following this guide!

I have taken time to make sure that the steps listed below are the best out there. The reason I am making this guide is because many guides out there are either difficult to follow, too short and do not cover all the necessary steps, or are too drawn out. Some also do not include some rare Wii hacking options, which I plan to cover here.

Some links used in this guide are application re-uploads by me, and cannot be found in any other guide.

Note: DVDx is now included with the latest version of the HackMii installer, the standalone installer is no longer needed but is still distributed via the Homebrew Browser in two versions.

Some Wiis may not be able to load custom DVD-R discs due to their drive manufacturing time, make sure your Wii supports this before attempting the guide. (If your Wii is from 2007 or maybe earlier 2008 you should be good.)

This Guide will Cover the Following Things:

- Installing The Homebrew Channel
- Installing BootMii and Backing Up your Wii
- Playing DVDs on your Wii
- Playing Backups of Games you own
- Installing WADs (Custom Channels)
- Homebrew Browser
- Wii Linux
- Wii Menu Themes
- Priiloader/Preloader
- Using Priiloader to boot GameCube Backups from the Disc Channel
- Using WADder to create Custom Channels
- Custom Wii NAND (Virtual NAND)
- Windows 95 on the Wii
- Action Replay/Cheat Codes

Wii Boot Process (Reference)

Boot2: Power > Boot2 > System Menu

BootMii as IOS: Power > Boot1 > Boot2 > BootMii > System Menu

Preloader/Priiloader: Power > Boot1 > Boot2 > System Menu/Preloader

Installing The Homebrew Channel:

The Homebrew Channel is the Wii hacking home. From here, you can boot applications/games, and do pretty much anything else possible.

Note: This process *must* be done with an SD card, USB drives will not work!

Step 1: Start up your Wii console, and go to the Wii Menu.



Step 2: Navigate to the Wii Settings, and take note of the system version (Located in the top-right corner). Then, select the Internet category. After that, click Console Information to reveal the MAC Address on the first line. Write this number down for later.



Step 3: On your computer, go to <http://please.hackmii.com>, and fill in the information from earlier. You can cut either the red or the blue wire, however I like cutting the blue.



LetterBomb

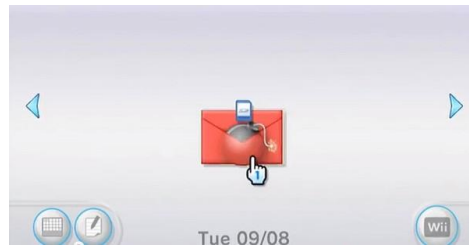
System Menu Version

4.3U 4.3E 4.3J 4.3K

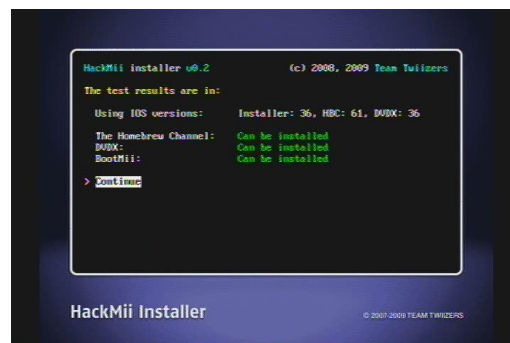
MAC Address

You should then download a .zip file of the hack. Unzip this with WinRAR to somewhere like your desktop. Then, plug in your SD card and copy the files to the root of your SD card.

Step 3: Insert the SD Card into your Wii Console, and navigate to the Wii Message Board. Press the “-” button on your Wii Remote/navigate to the day before’s messages, and you should see something like this:



Opening the letter should then run the exploit and the installer. Wait around 15 seconds for it to give you the option to continue, then press 1 on your Wii Remote. You should be brought to a menu where you can select what you would like to install and view the availability of certain features. Start by installing The Homebrew Channel.



After this, run the option titled Prepare an SD Card. Then install BootMii:
As Boot2: This option is only available for Wiis manufactured around 2007 and earlier.

This is the best option, since it starts BootMii during the Wiis boot process!

As IOS: This works on all Wiis, however may be less effective to solve worse console bricks.

I recommend running the same Prepare an SD Card option again after installing BootMii.



When restarting your Wii, you should see the BootMii screen. *Note: The BootMii screen will only show up if you have the SD card that you installed it to inserted into the Wii.* At this point, you should create a NAND backup. Use either the Wii Power/Reset buttons or the GameCube controller to navigate through the menus to the settings icon. (The Wii remote will not work.) Then, press Reset/A and navigate to the backup option. You can then start the backup process.

Note: Be sure to have at least 512MB of free space on your SD card to store the NAND backup!

Installing Applications/.DOLs to The Homebrew Channel:

- Download the application. (Unzip if required with WinRAR!)
- Insert your SD card into your computer.
- Find the folder of the application (Or create one), which contains boot.dol, icon.png, and meta.xml. (If the .dol file is named something other than “boot.dol,” rename it to that or else the Homebrew Channel will not recognize it.
- In the root of the SD card, create a folder named apps if it has not been done already.
- Enter that folder, and inside of it copy over the folder containing the application files.
- *Note: Themes are installed the same way, except they are left in their .zip files, and the Homebrew Channel will see them automatically.*

Playing DVDs on your Wii:

To play DVDs, you will need to download WiiMC (<http://www.wiimc.org/downloads/>) and transfer the app to your SD Card. (Instructions Above)

Launch the application from The Homebrew Channel, and you should see this screen:



At this point, you can insert the movie disc you would like to play into the Wii's disc drive. Then, on WiiMC, press A on the icon that resembles a disc towards the top. The Wii should then start loading and playing the DVD.

Playing Backups of Games

Playing backups of games you own is a great way to keep backups of your discs just in case one eventually breaks.

To do this, we will first need to install a few things to your Wii console and make a few choices depending on the configuration you would like to have:

- cIOS: (<https://code.google.com/p/d2x-cios/>)

Note: Download one of the two following files, one is for playing DVD-R disc backups and one is for playing GameCube backups from USB. (You can only have one installed at a time!)

- mIOS (For GameCube Backups/Discs):

https://mega.co.nz/#!JphQCAqJ!GyUNMgHYORPfSMgUzuYTZUa_zKp6r4tFnbB_uYFG73U

- DIOS MIOS (Plays GameCube games from FAT32 partitions on USB devices):

(<http://crediar.no-ip.com/dwn.php>)

Note: If your Wii does not have a WiFi connection, follow these additional steps:

Open NUSDownloader from above, and download the following things. (Be sure to have the Create WAD checkbox selected!) When downloading, these files will be stored in the folder NUSDownloader is located in > titles.

- IOS -> IOS56 -> v5661
- IOS -> IOS57 -> v5918

Then transfer these files to the root of your SD card.

Download the above files (From the first link be sure to grab the latest revision), then transfer them to your SD Card like normal Homebrew Channel applications.

In The Homebrew Channel, launch the cIOS installer.

- When you launch it, by default you will be on the D2X version, use the D-Pad right button to change it to the latest version.
- Then, move down one and change the IOS version to 56.
- Move down again, and choose your preferred slot to install to. Most people prefer slot 249.
- If you want, you can change the version under the fourth option, though this doesn't directly change the result.

After configuring this cIOS, press the Home button to add this to the batch install. You will see a confirmation message at the bottom of the screen.

Next, we will want to configure a second cIOS, this time:

- Use Base 57
- Choose a different slot (250 in this tutorial).

Press A, and you should see an overview of the cIOS installation, with the ones you have selected blinking, and others may be red. Then, press A again to start the installation. Once this is done, the ones that you have just installed should be green. At this point, press A to go back to the configuration screen, then B to exit the application.

Now to install the mIOS (This is not DIOS MIOS!). To install this, reopen NUSDownloader and do the following:

- In NUS go to Database -> System > MIOS > v10
- Open the new folder created by NUS Downloader (00000000100000101v10)
 - This folder is in the same directory as NUS Downloader itself.
- Find the WAD file MIOS-64-v10.wad and copy it to the root of the SD card.
- Rename it to RVL-mios-v10.wad

Then, put the SD card into the Wii and run the mIOS application. It should ask you for an IOS to use, select 249. (After this, be sure to wait for the Press 1 to continue message to continue, as pressing it before will exit the application!)

- Press A to navigate to the menu.
- Press A to install mIOS.
- Press A to load the WADs from the SD card or use D-Pad right to select NUS Download. (Select the use SD card option if your Wii does not have internet/WiFi.)
- Press A to install the cMIOS.
- Press A again to exit.

If you prefer to not use mIOS and instead use DIOS MIOS, simply download the WAD file from the link above, and transfer it to the WADs folder on your SD card. Then, in your Wii, launch YetAnotherWADManager and install it.

Playing Wii Games from a WBFS Drive

To play Wii Games from a WBFS formatted drive on your Wii Console, follow these instructions:

- First, grab the WBFS Manager program from here: (<http://wbfsmanager.codeplex.com/>)
- Then, launch it and insert your USB device/disk.
- Click Refresh Drive List.
- Then, select your drive letter from the dropdown.
- Click Format WBFS (Warning!: You will lose all data on the selected drive. To get around this, create another partition on the drive using the Windows Create/Edit Partitions program!)
- Your drive should be ready! You can add ISOs/WBFS files to it now or rip games from your Wii using USB Loader GX (http://usbloader-gui.googlecode.com/files/USBLoader_GX_V3_0_AllinOnePackage_IO_S249.zip). (Simply install this as a normal Homebrew Channel application as always.)
- Note: For a better 1:1 ISO rip of games from the Wii, you can use the Homebrew Application CleanRip (<http://wiibrew.org/wiki/CleanRip>).

Only add/use/play games that you own!

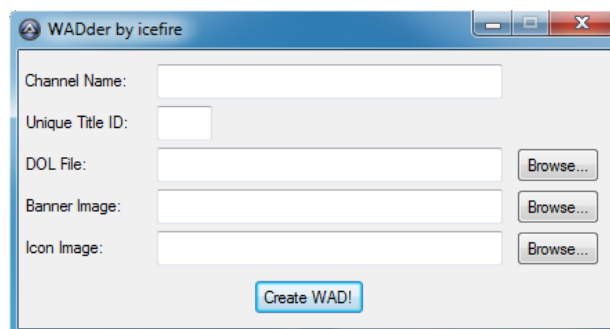
Custom Channels

Custom Channels can be anything from Homebrew applications converted into channels to game forwarders for USB drives.

To create one of these, we have a few options:

- Use WADder/CustomizeMii to create Homebrew Channel application forwarders
- Use Crap Channel Creator to create USB game forwarders

WADder:



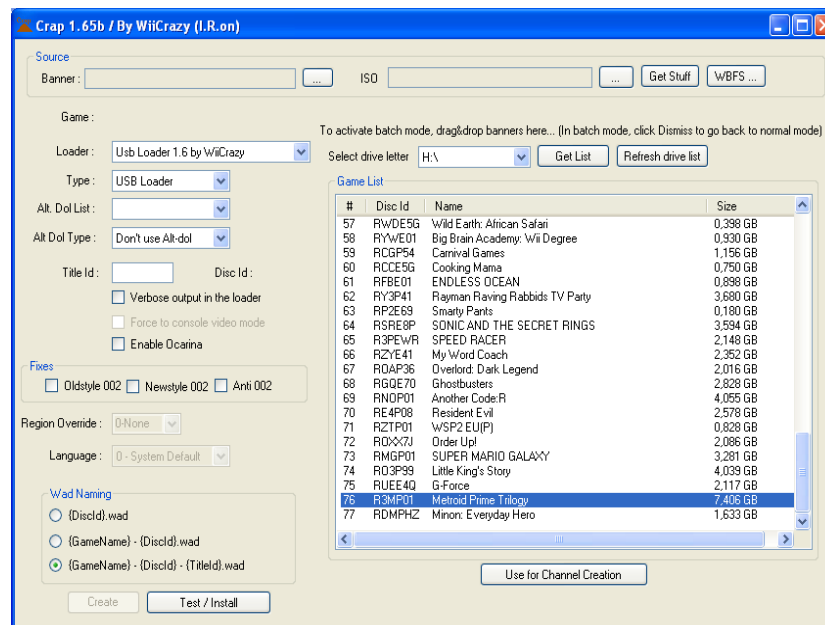
To create channels using WADder, simply launch the program and fill out the fields.

- Channel Name: Call this whatever you would like
- Unique Title ID: Title ID for your channel, such as ABCD (Note: Each channel must have a different title ID or else they will overwrite each other!) For a list of Wii Channel Title IDs, see here: (http://wiibrew.org/wiki/Title_database)

- DOL File: The Homebrew Channel application DOL file.
- Banner Image: Banner Image for your Wii Channel.
- Icon Image: Small Icon Image for your Wii Channel.
- I recommend checking Advanced Mode, since it is easier if there happens to be a glitch in the program to fix it.
- Then, click Create WAD! (*Do not touch your computer however during this time, as one key press may mess up part of the process!*)

You can then save the WAD file when it is completed. Transfer this to the WADS folder on the SD card, and launch YetAnotherWADManager from The Homebrew Channel to install it. Your channel should then appear on the Wii Menu.

Creating Channels with CrapWii



First, download and launch the program from (<https://code.google.com/p/crapwii/>). You will then see a few options listed:

- Loader: This can be anything you prefer, however CFG USB Loader seemed to work for me.
- Type: USB Loader
- Title ID: Change this to the Title ID you would like, be sure it is unique!

At this point, plug in your WBFS drive, and refresh the list in the program. Select your drive letter from the dropdown list (This can be found in an explorer window), and then select a game.

You can then create the WAD! Install this on your Wii like any other WAD using YAWMM from the Homebrew Channel.

Using the Homebrew Browser

- To use the Homebrew Browser, and be able to install Homebrew Channel applications from the Wii itself, follow these instructions:
- Download the Homebrew Browser application files from here: (http://www2.codemii.com/wiihomebrew/homebrew_browser_v0.3.9c.zip)
- Install them to the SD Card by dragging the application folder to the apps folder on the root of the card.
- Then, insert the SD card into the Wii and launch it.
- You can then install any Homebrew applications you would like!

Wii Linux

Wii Linux is a port of Linux to the Wii! You can run anything on the Wii now that you can run on Linux, however you want to keep in mind the RAM limitations the Wii Console has.

First, download the required files:

Linux Disk Image: <http://www.fileswap.com/dl/seksXdGWeY/linux.zip.html>

Kernel: <https://sites.google.com/site/linusfargo/Home/EasyWiiLinux.elf>

Kernel with Auto Video Detection Mode: <http://www.mediafire.com/?ve6rh7cuhgp16kd>

Then, copy one of the kernels to the root of the SD card, along with the disk image, and launch it using BootMii.

To launch a .elf/dol file using BootMii, first launch BootMii. Then, press the power button twice and the reset button once. This should list the files on your SD card. Use the power button to scroll down to the kernel .elf file, and the reset button to launch it. Your Wii should then load Linux.

To setup the WiFi, Select "Configure WiFi" from the "System" menu and answer the questions. If this does not work, press and hold A on the start button, and proceed to power off, however press Return to Terminal instead. At the terminal, type the following using a connected USB keyboard: `sudo nano /etc/network/interfaces`. Then, add the information from this link to the file: (<http://pastebin.com/mhrqWaW4>)

Wii Themes

Note: Installing themes to your Wii Menu changes IOS36, and may brick your Wii, we are not responsible for any damage!

You must install the correct file for your Wii's region, or you may give yourself a BannerBrick, proceed only with BootMii installed!

First, head on over to (<http://wii.spiffy360.com/themes.php>), and pick out a theme. My favorite is the Dark Menu Blue Theme.

Then, install MyMenuify to the SD card to use with The Homebrew Channel from here: (<http://wiibrew.org/wiki/MyMenuify>).

Transfer the theme file to the root of the SD card, and launch MyMenuify from The Homebrew Channel. Press A on the theme file to install it, then press the Home button to exit. You're done!

Priiloader (aka Preloader)

Installing Priiloader brick protection:

- First, download it from here: (<http://wiibrew.org/wiki/Preloader/Priiloader>).
- Transfer this to the apps folder on your SD card like a normal Homebrew Channel application.
- Launch up The Homebrew Channel and run the installer.
- Press + on your Wii Remote to install Priiloader.
- It should then reboot to the Priiloader menu, if it doesn't, try rebooting your Wii and navigating to the Wii Menu from BootMii.

To use Priiloader to launch GameCube Backups from the Disc Channel:

- Download this hacks.ini file
(<https://mega.co.nz/#!JoxH0QJB!djSPPzaq4rDpRI0-83F9gRHIXmJJ1uFk6Ttze5W520>), and transfer it to the root of your SD card, replacing any current file with that same name.
- Reboot your Wii Console and enjoy!

Installing WADs to your Wii

Find a cool channel/forwarder? Want to install it to your Wii? You can do this easily with YetAnotherWADManager!

<https://code.google.com/p/yawmm/>

Simply transfer this application to your SD card like other Homebrew Channel applications and launch it from the channel.

When launched, select IOS36 as the IOS to load, since this is the Wii Menu's IOS.

Then, select the location of the WAD you would like to install.

You then have the option to either install or uninstall the WAD (Select an option using the D-Pad).

You will then find your WAD on the Wii Menu.

For installing multiple WAD files, you can use another application called MultiModManager (MMM)

(<http://filetrip.net/wii-downloads/homebrew/download-multi-mod-manager-134-f13015.html>).

Launch the application, and press A on the WAD installation option.

After this, select the location and WAD, then press A to install. You can also arrow over to the right using the D-Pad and uninstall it.

To select multiple WADs, press + on the Wii Remote to select them, then press 1 to batch install.

Custom Wii NAND

Ever feel like you are running out of room on your Wii for installing save files and channels?

Using custom NANDs you can install these save files and games to a USB drive!

You will only be limited by the four possible pages on the Wii Menu and the space of the USB drive/SD card which you run it on.

Note: For best possible results, I recommend using a blank formatted USB drive.

For this tutorial, you will need the program ModMii installed to your computer. With this program, we will be able to download and customize a custom Wii virtual NAND.

First, launch the program in text console mode (non-skin mode).

Then, type "I Agree," then press Enter.

Type "" to select virtual NAND mode.

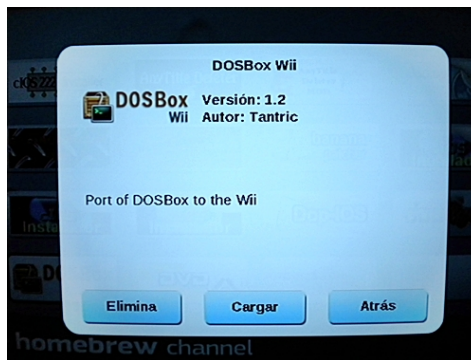
Windows 95 on the Wii

Windows 95 will not run extremely fast due to the technical limitations of the Wii, but it'll still work. To get it to run, we're going to need a new Homebrew Application!

The Windows 95 hard disk will require around 200MB of extra space on your SD card! Be sure you have enough space before continuing.

It's called DOSBox Wii (<http://dosbox-wii.googlecode.com/files/DOSBox%20Wii%201.7.zip>).

(You guessed it, a port of DOSBox for the Wii.) Load this up in the Homebrew Channel:



Once you loaded it up you should see an almost blank terminal. I believe DOSBox has support for external keyboards, so you may want to buy a USB one and plug it into the port towards the side of the Wii on the back. (The other port will not work for anything other than Wii USB

extensions.)

If you want to use the good old Wii remote, you can press the home button and select Keyboard
(Note: This method is the most annoying ever, since you have to type things, press OK, then see what happened).

Type the following:

cd z:\

- imgmount d c:\W95.img

- boot d:\W95.img

Windows should now be booting! Note that this could take a few minutes to start up fully, as the Wii is a bit slower than a normal computer since it is emulating it.

Action Replay/Cheat Codes

Have you ever played a videogame and wanted to tweak it a bit? With action replay codes, this is possible. Basically, they are certain codes which change the things in memory of the game itself, thus changing the behaviour of the game.

GameCube Games

For this, you will only need a disc of a game (Either an original copy or a backup burned copy, Multi-ISOs will *not* work!).

You will also want a copy of Action Replay itself, burn this ISO to a disc.

Once you burn this, boot it in your Wii and you should then see a GUI menu to select regions,



games, and codes like the one below:

You can also add custom codes, however this is normally horrible since you would have to navigate to each letter with the GameCube remote, and this gets tiring over time, so I recommend to stay with the ones they have added for the most part.

Wii Games

For Wii games, you will need one of the following:

- An Original Disc
- A Backup Disc

- An Image on a USB/Hard Drive for use with loaders



If you do not have an image to put on your USB/Hard Drive, I recommend either importing it using the built-in tool on the application or by using CleanRip (<http://wiibrew.org/wiki/CleanRip/>). After this, press options before starting the game and find the cheat codes section. You can then manage that through there.

For actual discs, there are other alternatives for this which I will not get into.

Ripping Games with CleanRip

You will first need to download CleanRip (Link Above). Once you launch it from the Homebrew Channel, you should see a welcome screen. Press A to continue and follow the instructions. Select the options that you would like:



You should then see a progress bar like the one below:

Once it is complete, the ISO should be on the root of the drive you ripped it to.

That's it! I hope you enjoyed the tutorial, have fun with your new hacked Wii.

