

## Installing RetroPie onto the Raspberry Pi

1. Download rpi-imager from <https://www.raspberrypi.com/software/>
2. Insert a blank SD card into the computer
3. Open rpi-imager, select RetroPie as the OS, then press write
4. After it has finished, take the microSD card and insert it into the Raspberry Pi
5. Connect the Raspberry Pi to a monitor and boot up the Pi
6. Configure RetroPie to one's liking

## Installing ROMs on the RetroPie

1. Download ROMs for games of one's choice onto the computer
2. Plug a blank USB drive into the computer and add a folder called retropie
3. Eject the USB drive and plug it into the Raspberry Pi
4. After the activity light to stop blinking, plug it back into the computer
5. Move the ROMs into the folder retropie > roms > [console], where [console] is whichever console the game is for
6. Eject the USB drive and plug it back into the Raspberry Pi
7. After the activity light to stop blinking, restart the RetroPie by pressing F4 on the keyboard and then typing emulationstation into the console

## Creating a custom theme

1. Create a folder in the themes folder named after the theme
2. Create a [theme].xml file in the folder, where [theme] is the name of the theme
3. Use html tags to adjust each element until satisfaction
4. Create a folder for every console with a theme.xml file and a console logo in it
5. Include [theme].xml and the console logo using html tags in each theme.xml
6. If this was done on the computer:
  - a. Create a repository in GitHub where the files will be pushed to
  - b. Use git commit and git push on the computer's terminal to push the files onto GitHub
  - c. Use git clone and git pull on the RetroPie's terminal to pull the files onto the RetroPie
  - d. Use cp in the RetroPie's terminal to move the newly pulled files into the themes folder
7. Open the menu and go to the UI Settings to change the Theme Set to the theme

## Creating a custom ROM hack

1. Easy first ROM hacks are Fire Emblem: the Sacred Stones or Super Mario World
2. Download the FEBuilderGBA or Lunar Magic programs respectively
  - a. FEBuilderGBA: <https://github.com/FEBuilderGBA/FEBuilderGBA>
  - b. Lunar Magic: <https://fusoya.eludevisibility.org/lm/>
3. After messing around in either program and making sure the ROM hack works, install the ROM onto the RetroPie the same way as any other ROM