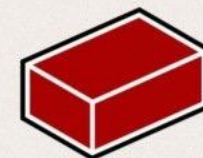


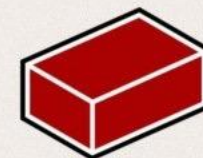
Raspberry Pi Game Console

Create your own MAME console!



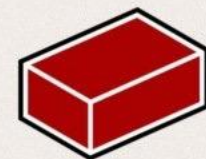
What is a MAME Console?

- Multiple Arcade Machine Emulator
- Software to recreate classic arcade systems on modern hardware
- Play thousands of games from consoles throughout gaming history
- All with a Raspberry Pi!



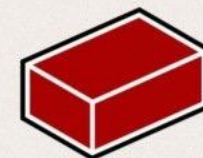
What will you need?

- Raspberry Pi (Any model, v2 for more advanced consoles)
- 4Gb+ SD card
- Computer (Linux recommended, possible on Windows/Mac)
- Monitor
- USB Gamepad (Recommended)
- Keyboard
- ROM/ISO Game files

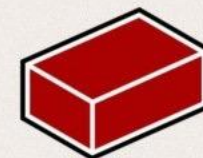


Setting Up PC

- Download emulation Station
 - <http://emulationstation.org/#download>
- linux:
 - `dpkg -i emulsionstation*`
- windows:
 - run the .exe

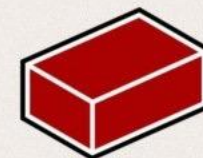


Setting up the Pi



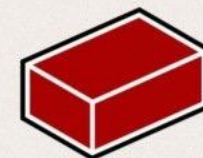
Download and Flash RetroPie

- <http://blog.petrockblock.com/retropie/retropie-downloads/>
- Download the appropriate image for your Pi
- Extract the image from the .zip file
- Windows Users: Download “Win32 Disk Imager”
 - Flash the .img file to your SD card
- Linux/Mac Users: Use the following command:
 - ***sudo dd bs=1024m if=/Path/to/folder/retropie-v3.0.img of=/dev/sdb***



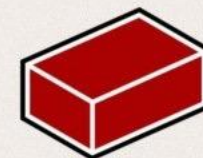
Setting up your Pi

- Insert your SD card with the RetroPie image into the Pi
- Connect your keyboard, gamepad and monitor
- Connect your power source to boot your Pi
- Follow the on-screen prompts to map your gamepad buttons



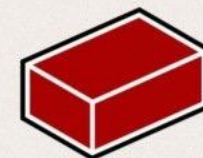
Tweaking your Settings

- Navigate to the RetroPie Menu
- Launch “RASPI-CONFIG”
 - Expand Filesystem
 - Overclock to “Pi2” if on a Pi 2, or “Modest” if not
 - Press ESC to return to the RetroPie Menu



Adding Game Files

And BIOS/Save files

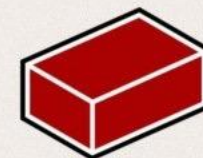


Redbrick

DCU's Networking Society

Wireless: Setup Wi-Fi

- Navigate to RetroPie Menu
- Select “Configure Wi-Fi”
- “Connect to Wi-Fi”
 - SSID:
 - Password:
- Select “Show IP Address” and note the number shown



Wireless: Linux and Mac Users

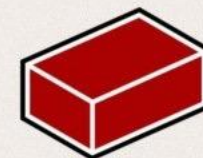
- From your Terminal, copy files with the following commands:

- Game files:

- ***rsync -val /path/to/your/games/ pi@192.168.1.1:~/RetroPie/roms/<consolename>/***

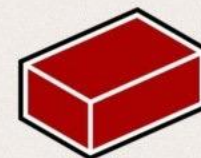
- BIOS files:

- ***rsync -val /path/to/your/BIOS/ pi@192.168.1.1:~/RetroPie/bios/***

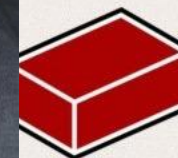
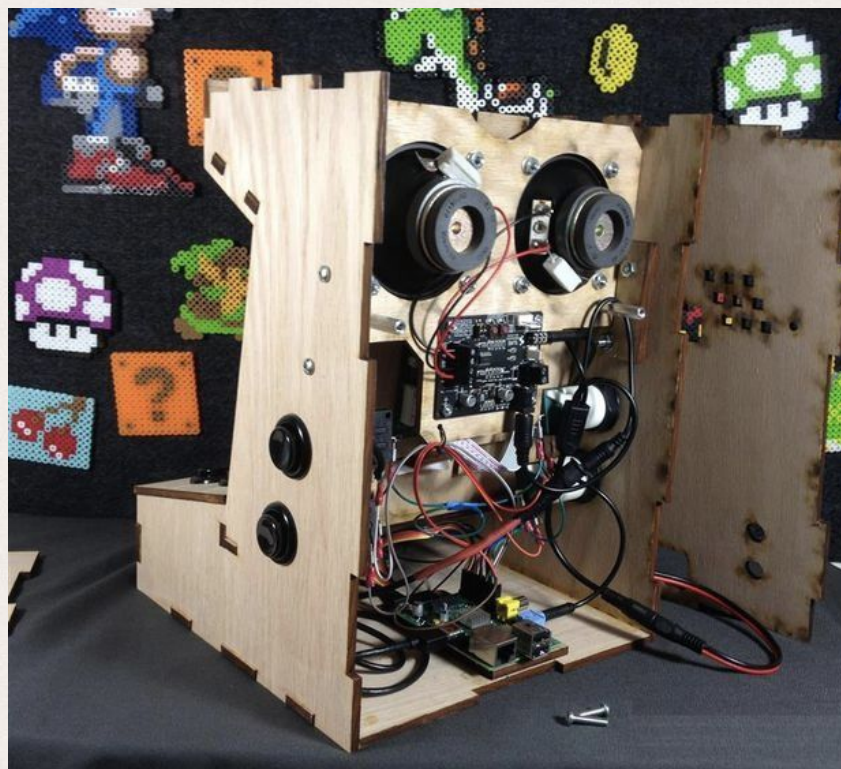


Wireless: Windows Users

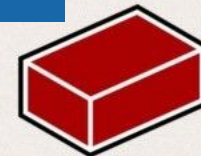
- Open WinSCP
- Type the IP address of your Pi
 - Username: pi
 - Password: raspberry
- Drag your game and BIOS files to the Pi
 - Games: ***~/RetroPie/<consolename>/***
 - BIOS: ***~/RetroPie/bios/***



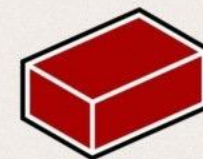
What Next



Finished!



Questions?



Redbrick
DCU's Networking Society