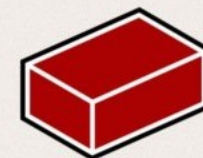


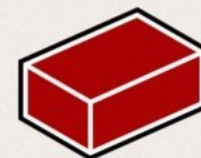
# Raspberry Pi Game Console

Create your own MAME console!



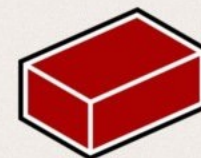
# What is a MAME Console?

- 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!



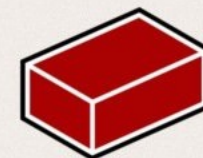
# What will you need?

- 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

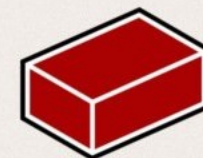


# Setting Up PC

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

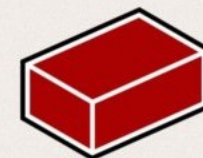


# Setting up the Pi



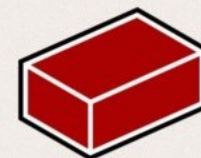
# Download and Flash RetroPie

- <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`



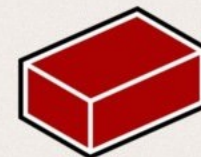
# Setting up your Pi

- 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

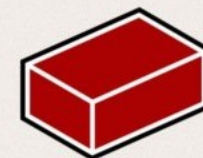
- Navigate to the RetroPie Menu
- Launch “RASPI-CONFIG”
  - Expand Filesystem
  - Overclock to “Pi2” if on a Pi 2, or “Modest” if not
  - Press ESC to return to the RetroPie Menu





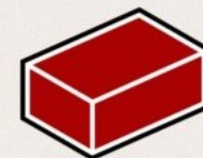
# Adding Game Files

And BIOS/Save files



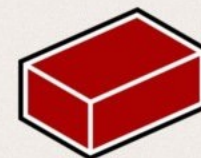
# Wireless: Setup Wi-Fi

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



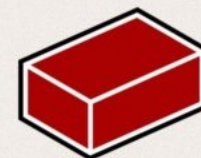
# Wireless: Linux and Mac Users

- 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/`

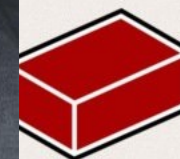
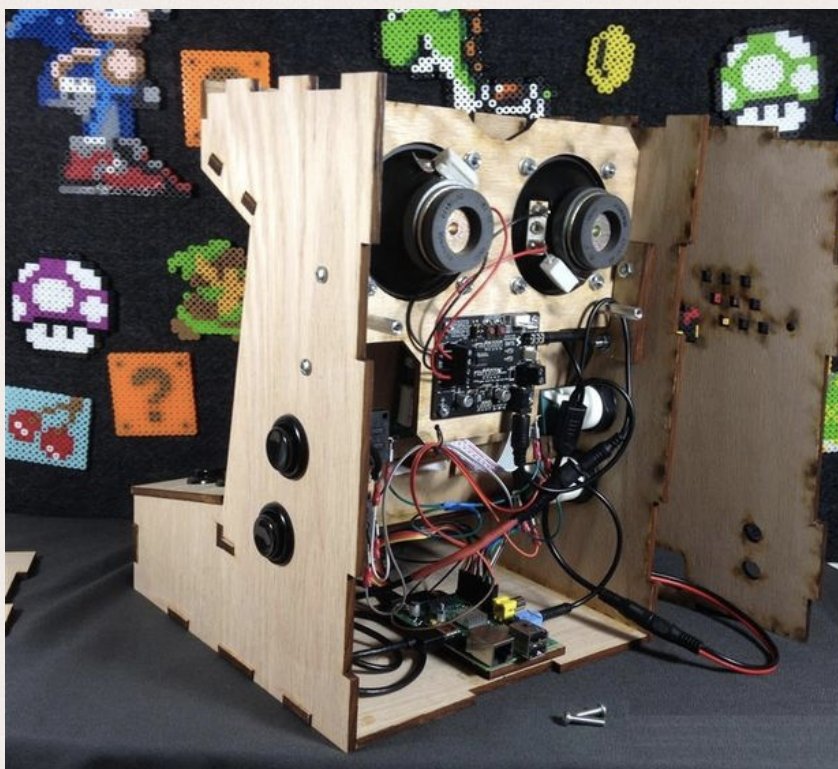


# Wireless: Windows Users

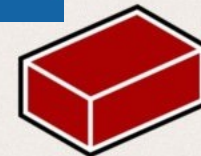
- Open WinSCP
- Type the IP address of your Pi
  - Username: pi
  - Password: raspberry
- Drag your game and BIOS files to the Pi
  - Games: `~/RetroPie/<consolename>/`
  - BIOS: `~/RetroPie/bios/`



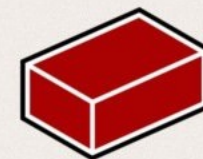
# What Next



# Finished!



# Questions?



**Redbrick**  
DCU's Networking Society