

# Das andere 3d

## Bluetooth aktivieren

- `sudo apt update && sudo apt upgrade -y && sudo apt install git bluez bluetooth pulseaudio pulseaudio-utils pulseaudio-module-bluetooth blueman pavucontrol pi-bluetooth`
- `sudo nano /boot/config.txt`
  - Diese beiden Elemente auskommentieren :

```
enable_uart=1
dtoverlay=disable-bt
```

- Treiber laden  
`sudo nano /etc/modules-load.d/modules.conf`
  - `btusb` einfügen
- Dienste aktivieren
  - `sudo systemctl enable hciuart.service`
  - `sudo systemctl enable bluetooth.service`
- `sudo usermod -a -G bluetooth pi`
- `sudo reboot`

## Joystick koppeln

- `bluetoothctl`
  - `scan on`
    - [NEW] Device DC:0C:2D:5A:FC:EE Wireless Controller
  - `pair DC:0C:2D:5A:FC:EE`
    - [JBL Charge 3]# `pair DC:0C:2D:5A:FC:EE`  
Attempting to pair with DC:0C:2D:5A:FC:EE  
[CHG] Device DC:0C:2D:5A:FC:EE Connected: yes  
[CHG] Device DC:0C:2D:5A:FC:EE UUIDs:  
00001124-0000-1000-8000-00805f9b34fb  
[CHG] Device DC:0C:2D:5A:FC:EE UUIDs:  
00001200-0000-1000-8000-00805f9b34fb  
[CHG] Device DC:0C:2D:5A:FC:EE ServicesResolved: yes  
[CHG] Device DC:0C:2D:5A:FC:EE Paired: yes  
Pairing successful  
[CHG] Device DC:0C:2D:5A:FC:EE ServicesResolved: no  
[CHG] Device DC:0C:2D:5A:FC:EE Connected: no
  - `trust DC:0C:2D:5A:FC:EE`
    - [JBL Charge 3]# `trust DC:0C:2D:5A:FC:EE`  
[CHG] Device DC:0C:2D:5A:FC:EE Trusted: yes

```
Changing DC:0C:2D:5A:FC:EE trust succeeded
```

- connect DC:0C:2D:5A:FC:EE

- **Gamepad (PS4) testen**

## Lautsprecher koppeln

- bluetoothctl

- scan on

- [NEW] Device B8:D5:0B:C7:F1:0A JBL Charge 3

- pair B8:D5:0B:C7:F1:0A

- [bluetooth]# pair B8:D5:0B:C7:F1:0A  
Attempting to pair with B8:D5:0B:C7:F1:0A  
[CHG] Device B8:D5:0B:C7:F1:0A Connected: yes  
[CHG] Device B8:D5:0B:C7:F1:0A UUIDs:  
00001101-0000-1000-8000-00805f9b34fb  
[CHG] Device B8:D5:0B:C7:F1:0A UUIDs:  
00001108-0000-1000-8000-00805f9b34fb  
[CHG] Device B8:D5:0B:C7:F1:0A UUIDs:  
0000110b-0000-1000-8000-00805f9b34fb  
[CHG] Device B8:D5:0B:C7:F1:0A UUIDs:  
0000110c-0000-1000-8000-00805f9b34fb  
[CHG] Device B8:D5:0B:C7:F1:0A UUIDs:  
0000110e-0000-1000-8000-00805f9b34fb  
[CHG] Device B8:D5:0B:C7:F1:0A UUIDs:  
0000111e-0000-1000-8000-00805f9b34fb  
[CHG] Device B8:D5:0B:C7:F1:0A UUIDs:  
00001200-0000-1000-8000-00805f9b34fb  
[CHG] Device B8:D5:0B:C7:F1:0A UUIDs:  
00001801-0000-1000-8000-00805f9b34fb  
[CHG] Device B8:D5:0B:C7:F1:0A ServicesResolved: yes  
[CHG] Device B8:D5:0B:C7:F1:0A Paired: yes  
Pairing successful

- trust B8:D5:0B:C7:F1:0A

- [JBL Charge 3]# trust B8:D5:0B:C7:F1:0A  
[CHG] Device B8:D5:0B:C7:F1:0A Trusted: yes  
Changing B8:D5:0B:C7:F1:0A trust succeeded

- connect B8:D5:0B:C7:F1:0A

- [bluetooth]# connect B8:D5:0B:C7:F1:0A  
Attempting to connect to B8:D5:0B:C7:F1:0A  
[CHG] Device B8:D5:0B:C7:F1:0A Connected: yes  
Connection successful  
[CHG] Device B8:D5:0B:C7:F1:0A ServicesResolved: yes

```
[JBL Charge 3]#
```

- exit
- **Lautsprecher testen**
  - speaker-test -c2 -twav -l3
  - wget <https://download.samplelib.com/mp3/sample-15s.mp3>
  - sudo apt install vlc
  - cvlc sample-15s.mp3

## Doom kompilieren (chocolate)

- basierend auf [https://www.chocolate-doom.org/wiki/index.php/Building\\_Chocolate\\_Doom\\_on\\_Debian](https://www.chocolate-doom.org/wiki/index.php/Building_Chocolate_Doom_on_Debian)
- sudo apt install gcc make libsdl2-dev libsdl2-net-dev libsdl2-mixer-dev automake autoconf libtool git pkg-config
- git clone <https://github.com/chocolate-doom/chocolate-doom.git>
- cd chocolate-doom
- ./autogen.sh
- make -j4
- sudo make install

## WAD Datei kopieren

### Hinweis

Für Doom braucht es die original WAD Datei. Die habt ihr also entweder gekauft damals oder ihr sucht mal im Netz. Es gibt die Shareware WAD Dateien noch zum Download. Mehr darf ich hier

nicht sagen 😊

\* doom.wad per MobaXTerm auf den Pi kopieren

- **Shareware Version**
  - wget [http://www.doomworld.com/3ddownloads/ports/shareware\\_doom\\_iwad.zip](http://www.doomworld.com/3ddownloads/ports/shareware_doom_iwad.zip)
  - unzip shareware\_doom\_iwad.zip

## Klipperscreen stoppen

- sudo systemctl stop KlipperScreen.service

## Test

- DISPLAY=:0 chocolate-doom -iwad DOOM1.WAD

## Kein Autoconnect

- `sudo nano /etc/bluetooth/main.conf`
  - `FastConnectable = true`
- Probleme mit Audio :  
`sudo nano /etc/pulse/default.pa`
  - `# automatically switch to newly-connected devices`  
`load-module module-switch-on-connect`
- `sudo nano /etc/dbus-1/system.d/bluetooth.conf`
  - `<!-- allow users of bluetooth group to communicate with hcid -->`  
`<policy group="bluetooth">`  
`<allow send_destination="org.bluez"/>`  
`</policy>`

From:

<https://drklipper.de/> - **Dr. Klipper Wiki**

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