

The background of the slide is a stylized blue circuit board with glowing lines. In the center is a white house icon. To the left of the house are icons for a thermometer and a water drop. To the right is a lightbulb icon. The entire scene is set against a dark blue background with glowing circuit traces.

openHPI Workshop Embedded Smart Home 2017

Einrichtung des Raspberry Pi

Martin Malchow & Matthias Bauer

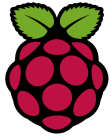
Raspbian installieren

- Raspbian Jessie mit PIXEL runterladen
 - <https://www.raspberrypi.org/downloads/raspbian/>
- Ggf. mit SD Formatter die SD-Karte formatieren
 - https://www.sdcard.org/downloads/formatter_4/
- Entpacken und Image mit Hilfe von Etcher auf SD-Karte schreiben
 - <https://etcher.io/>

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Keyboard-Layout und regionale Einstellungen



Startmenü

→ Raspberry Pi Configuration

→ Localisation

→ Set Locale

→ de, DE einstellen

→ Keyboard Layout

→ Country und Variant einstellen

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Display-Konfiguration

Terminal öffnen

config.txt anpassen

- `sudo nano /boot/config.txt`
 - `hdmi_group=2`
 - `hdmi_mode=87`
 - `hdmi_cvt=800 480 60 0 0 0`



Genau überprüfen, ob die Einstellungen korrekt sind, da sonst u.U. keine Anzeige mehr nach Neustart.

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Adafruit DHT installieren

```
git clone https://github.com/adafruit/Adafruit\_Python\_DHT.git
```

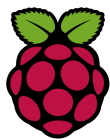
```
cd Adafruit_Python_DHT
```

```
sudo python3 setup.py install
```

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Kamera aktivieren



Startmenü

→ Raspberry-Pi-Konfiguration

→ Schnittstellen

→ Kamera: Aktiviert

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