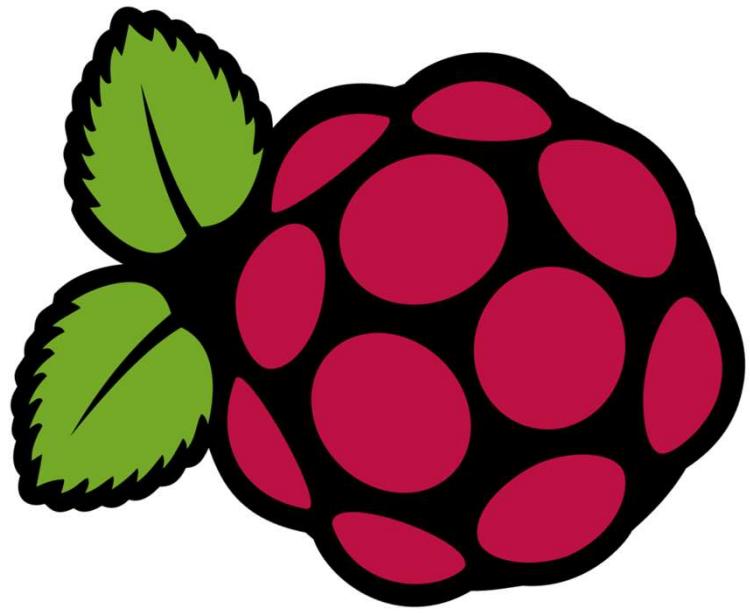


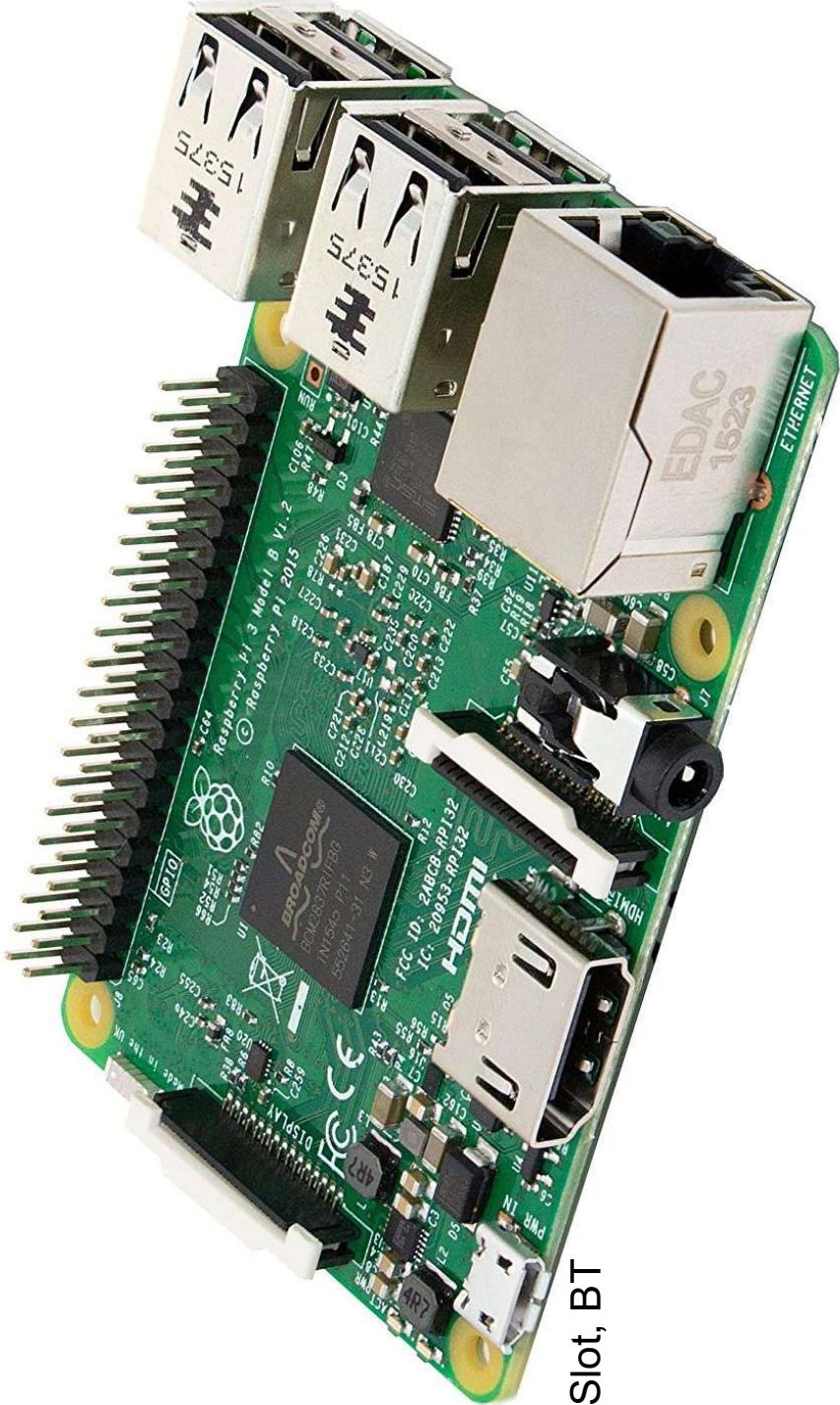
Raspberry Pi

BYOD



Raspberry Pi 3 Model B

- Preis: 35 €
- Ausstattung:
 - CPU-Takt: 1200 MHz
 - 1024 MB RAM
 - 4 USB-Anschlüsse
 - HDMI-Anschluss
 - LAN-Anschluss
 - WiFi-Anschluss
 - Audio-Anschluss
 - Schnittstelle/n: microSD-Slot, BT



Raspberry Pi 3 Starterset ca. 60 €

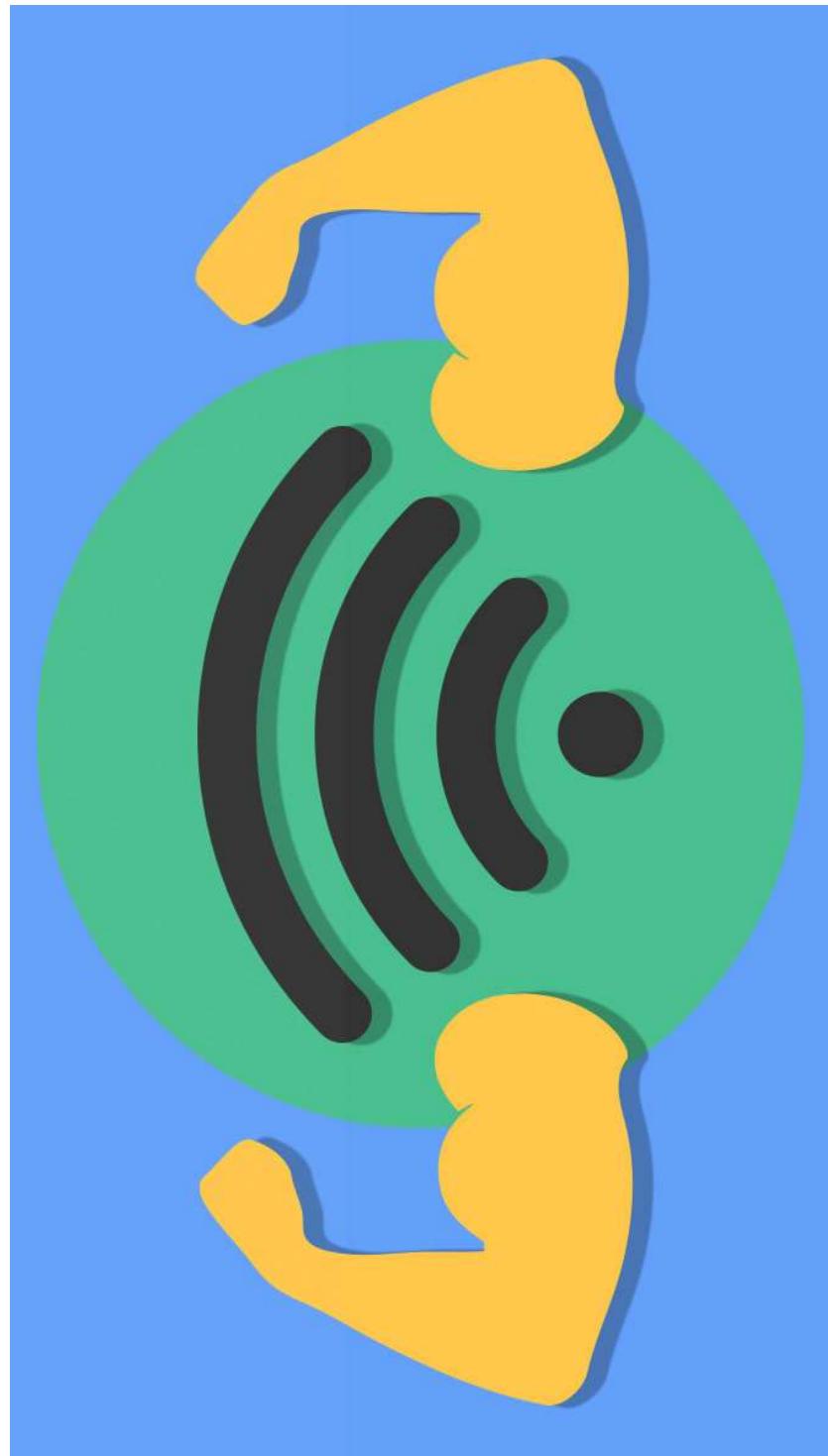


Präsentation BYOD Raspberry Pi

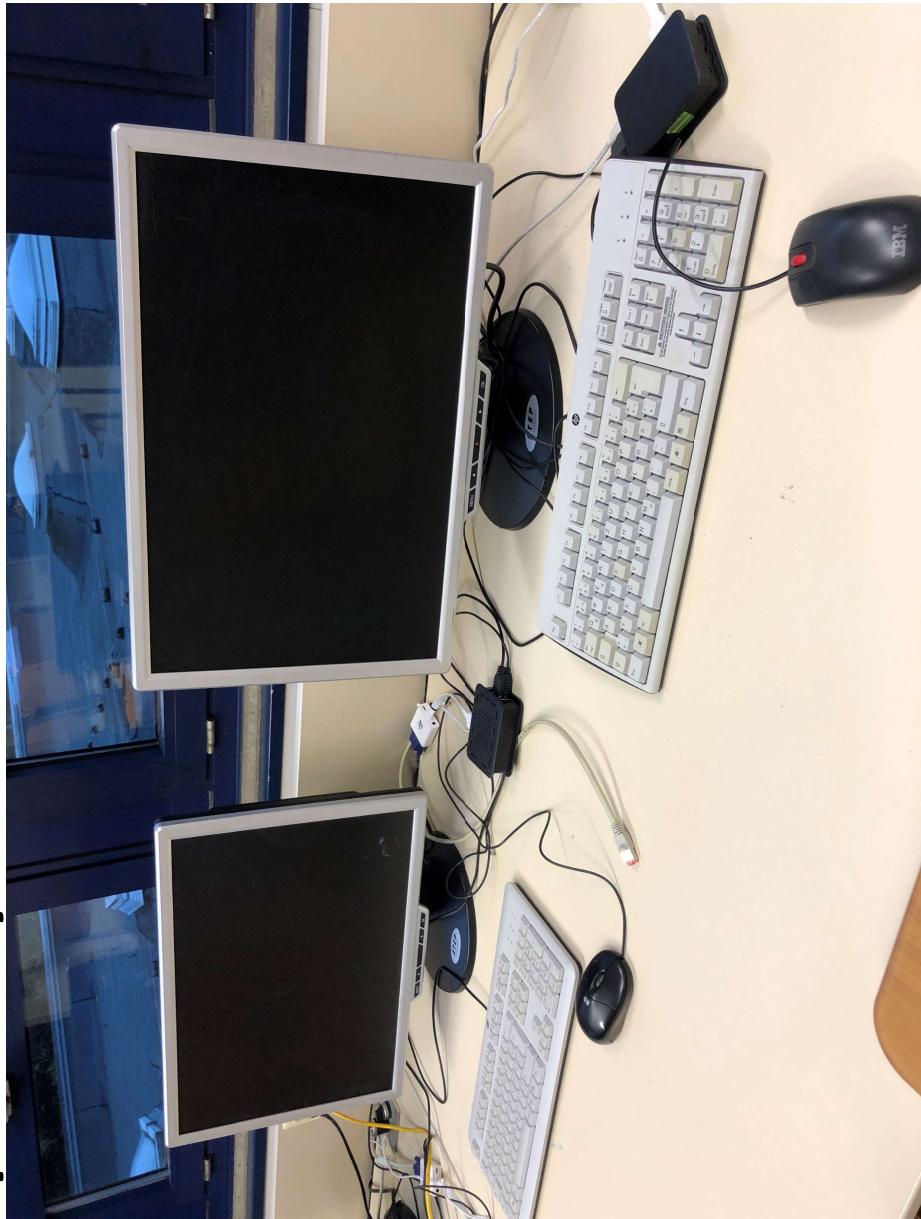
Weitere Voraussetzungen



Voraussetzungen



Raspberry Pi – Raum im BTI



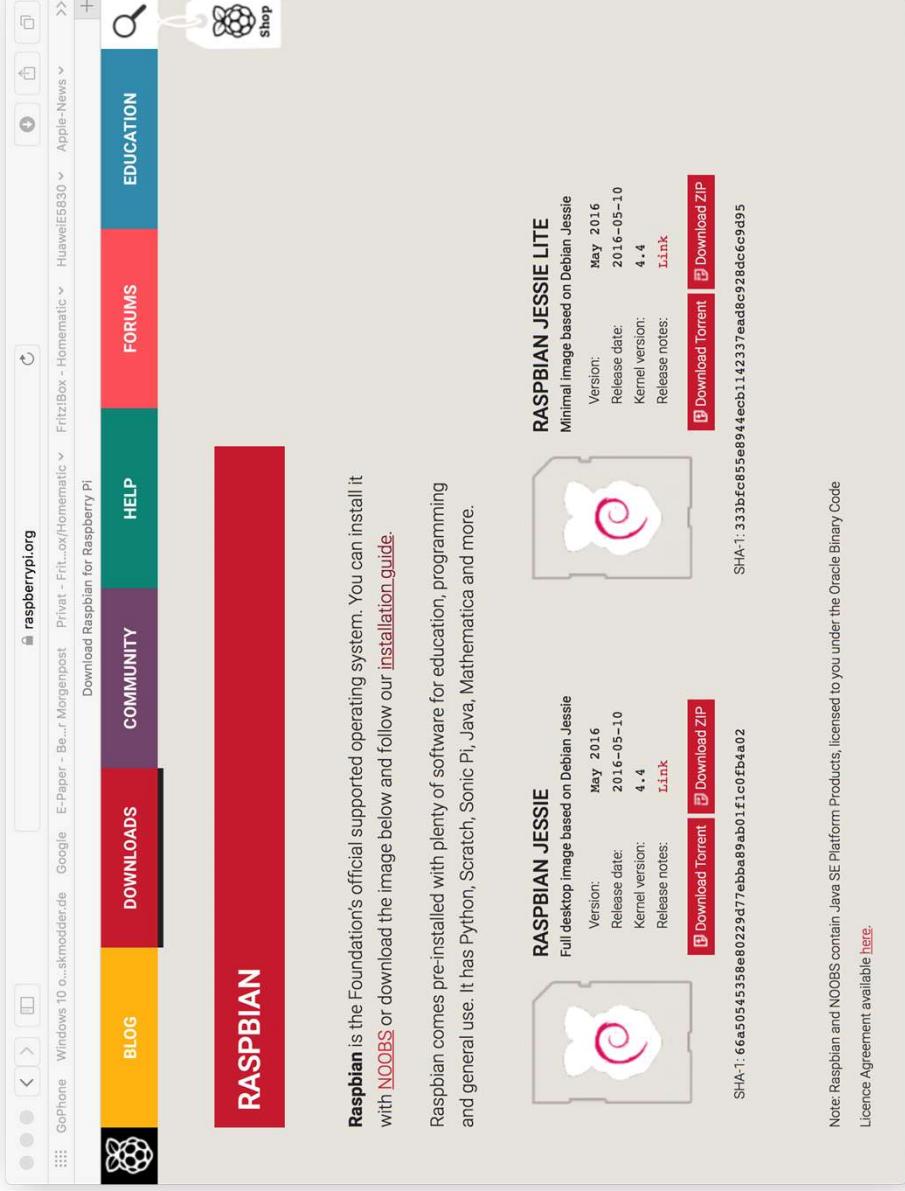
Präsentation BYOD Raspberry Pi

Schwachpunkt



16 GB: 5 – 8 €

Einrichtung:



The screenshot shows the official Raspberry Pi website's navigation bar at the top, followed by a search bar and a menu with links like "BLOG", "DOWNLOADS", "COMMUNITY", "FORUMS", "HELP", and "EDUCATION". A red banner with the word "RASPBIAN" is prominently displayed. Below the banner, there is descriptive text about Raspbian, a link to the NOOBS page, and a note about pre-installed software. Two download options are shown: "RASPBIAN JESSIE LITE" (minimal image) and "RASPBIAN JESSIE" (full desktop image). Each option includes version information, release date, kernel version, and a link to release notes. Download buttons for Torrent and ZIP are provided for each.

Raspbian is the Foundation's official supported operating system. You can install it with [NOOBS](#) or download the image below and follow our [installation guide](#).

Raspbian comes pre-installed with plenty of software for education, programming and general use. It has Python, Scratch, Sonic Pi, Java, Mathematica and more.

RASPBIAN JESSIE LITE
Minimal image based on Debian Jessie
Version: May 2016
Release date: 2016-05-10
Kernel version: 4.4
Release notes: [Link](#)

RASPBIAN JESSIE
Full desktop image based on Debian Jessie
Version: May 2016
Release date: 2016-05-10
Kernel version: 4.4
Release notes: [Link](#)

[Download Torrent](#) | [Download ZIP](#)

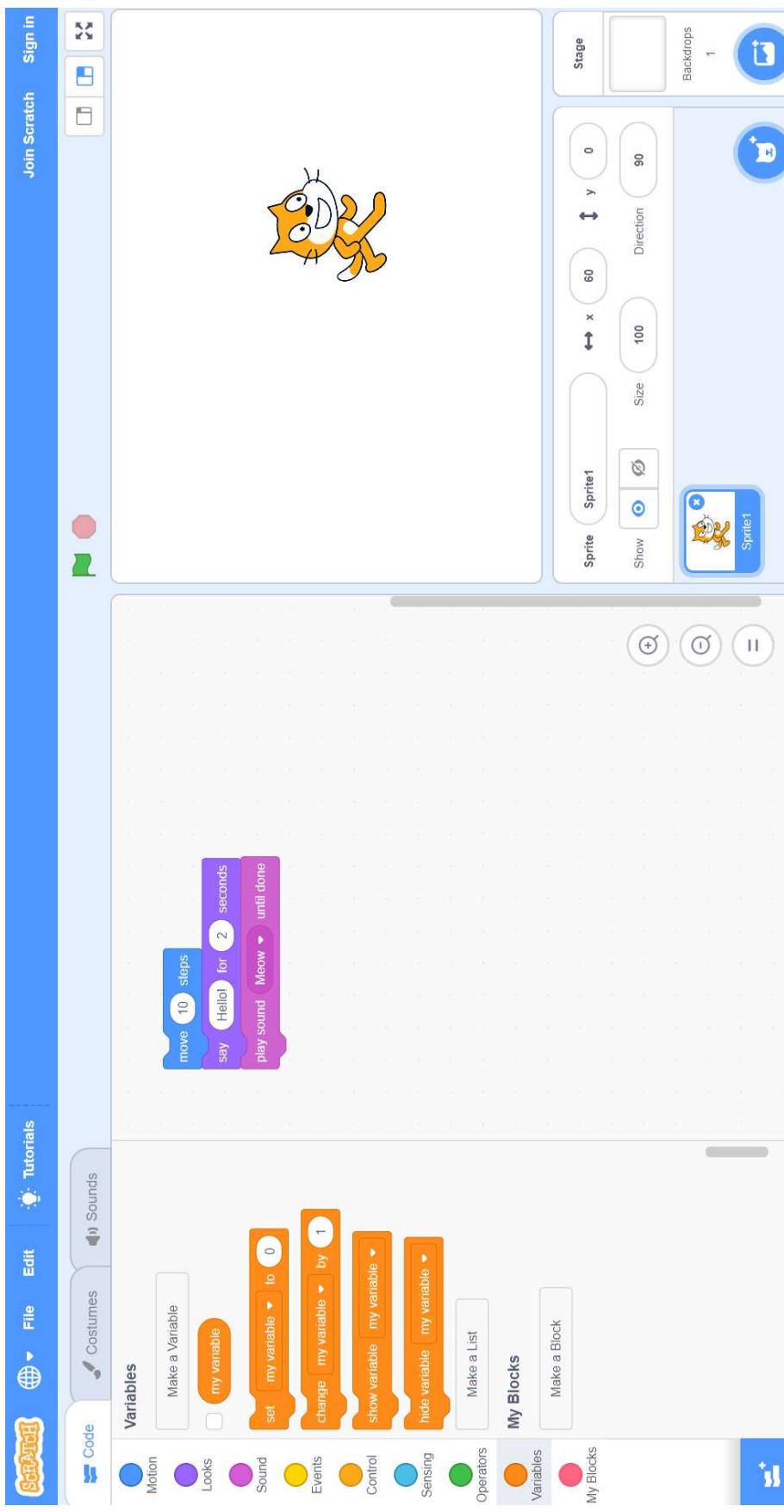
SHA-1: [66a50545358e80229d77ebba89ab01f10fb4a02](#)

Note: Raspbian and NOOBS contain Java SE Platform Products, licensed to you under the Oracle Binary Code License Agreement available [here](#).

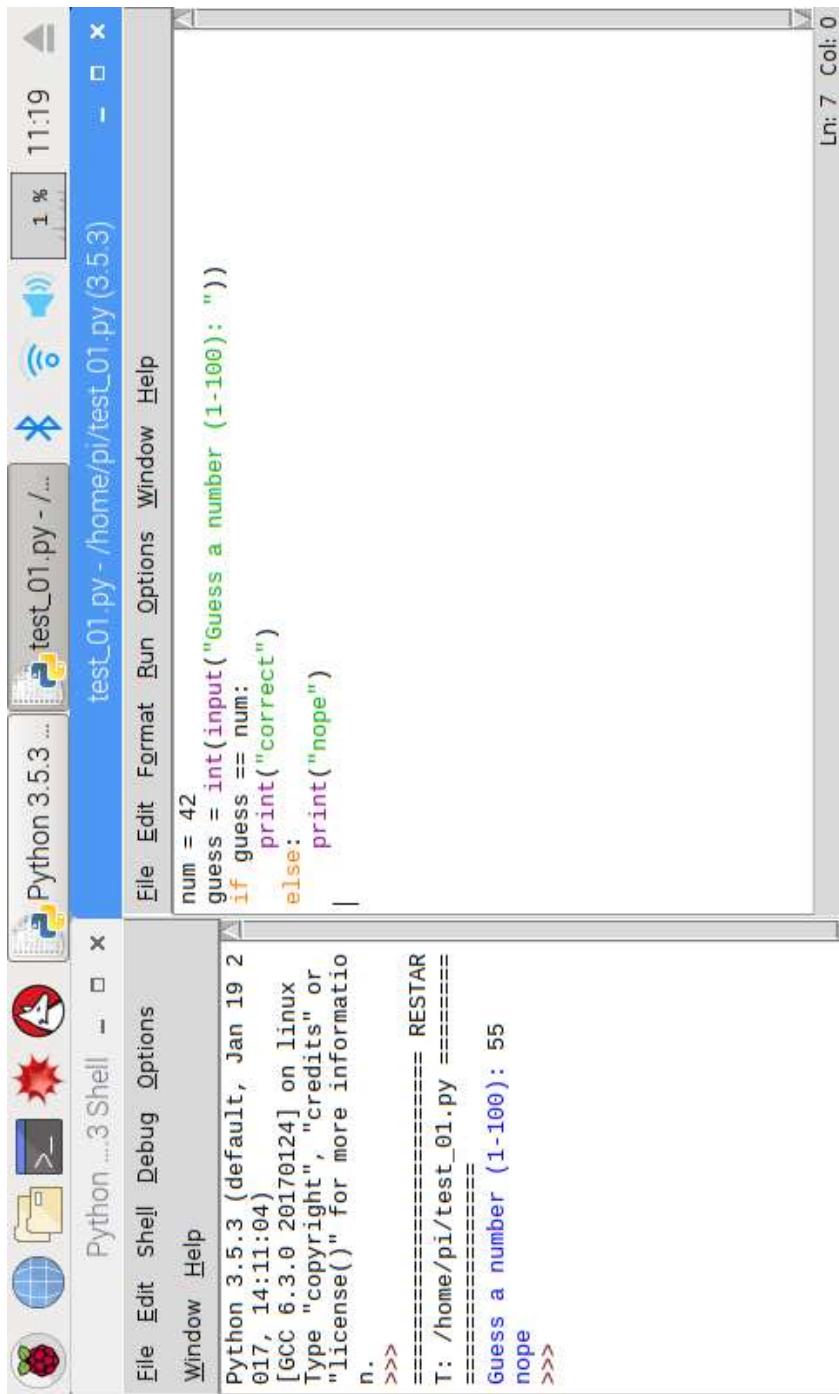




Einsatzmöglichkeiten



Einsatzmöglichkeiten



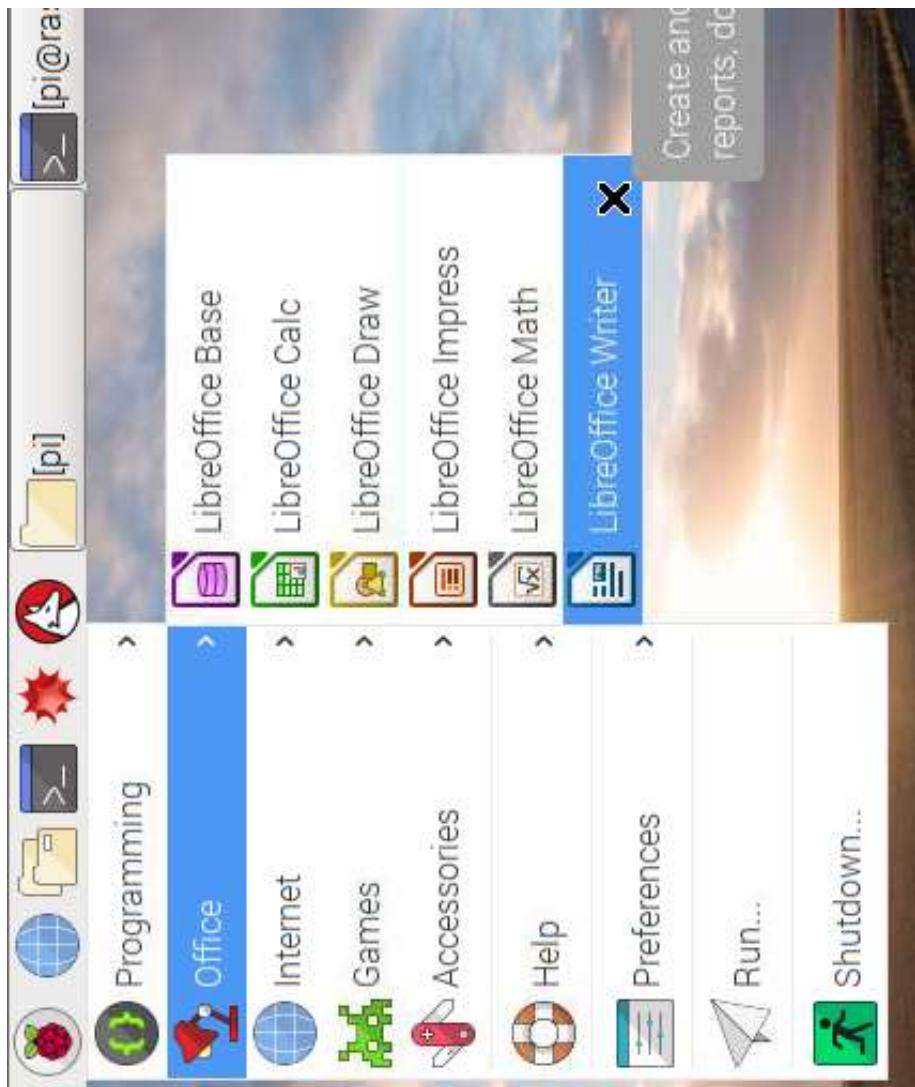
```
test_01.py - /home/pi/test_01.py (3.5.3)
num = 42
guess = int(input("Guess a number (1-100): "))
if guess == num:
    print("correct")
else:
    print("nope")

>>> ===== RESTAR
T: /home/pi/test_01.py =====
=====
Guess a number (1-100): 55
nope
>>>
```

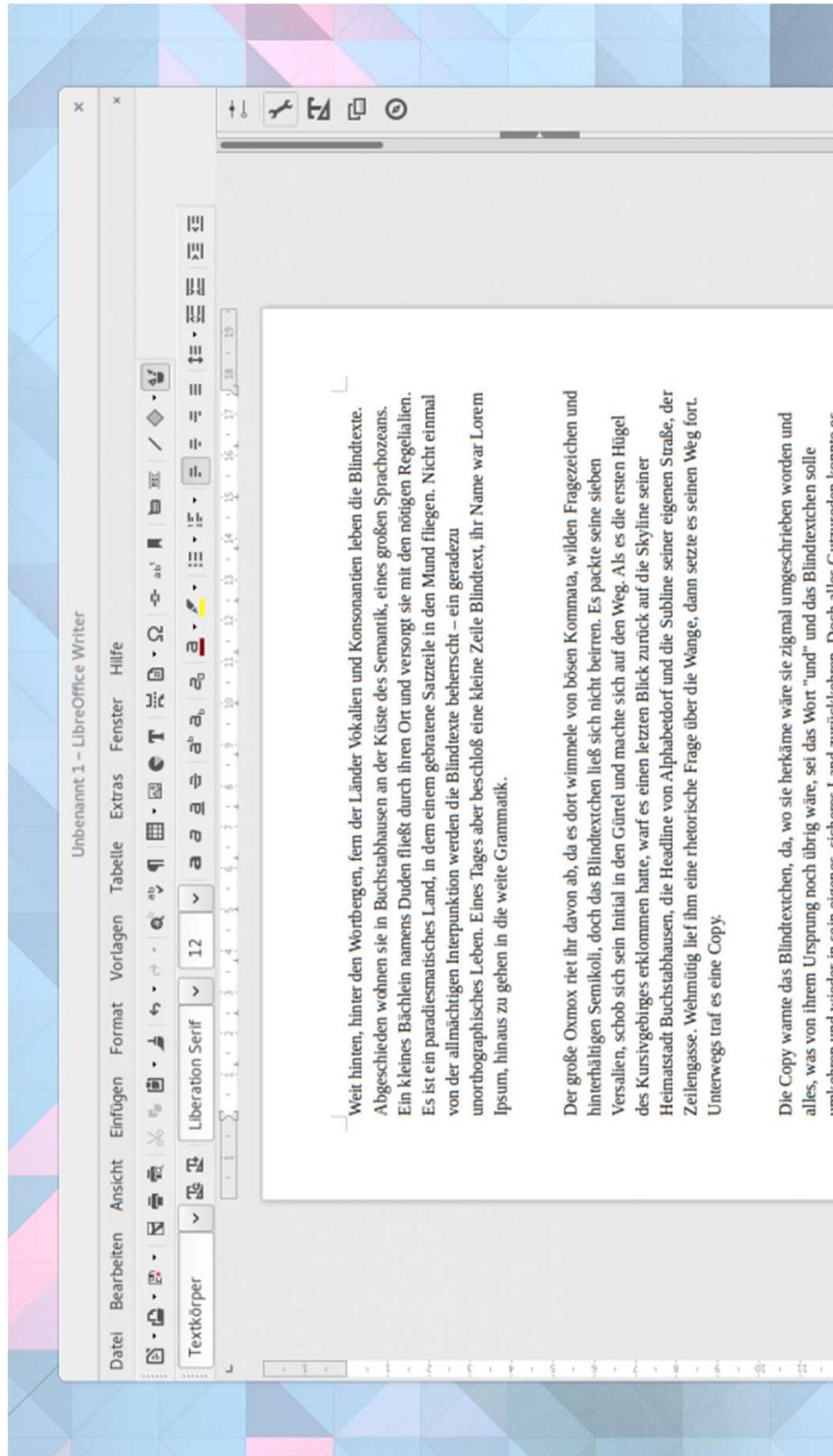
Einsatzmöglichkeiten



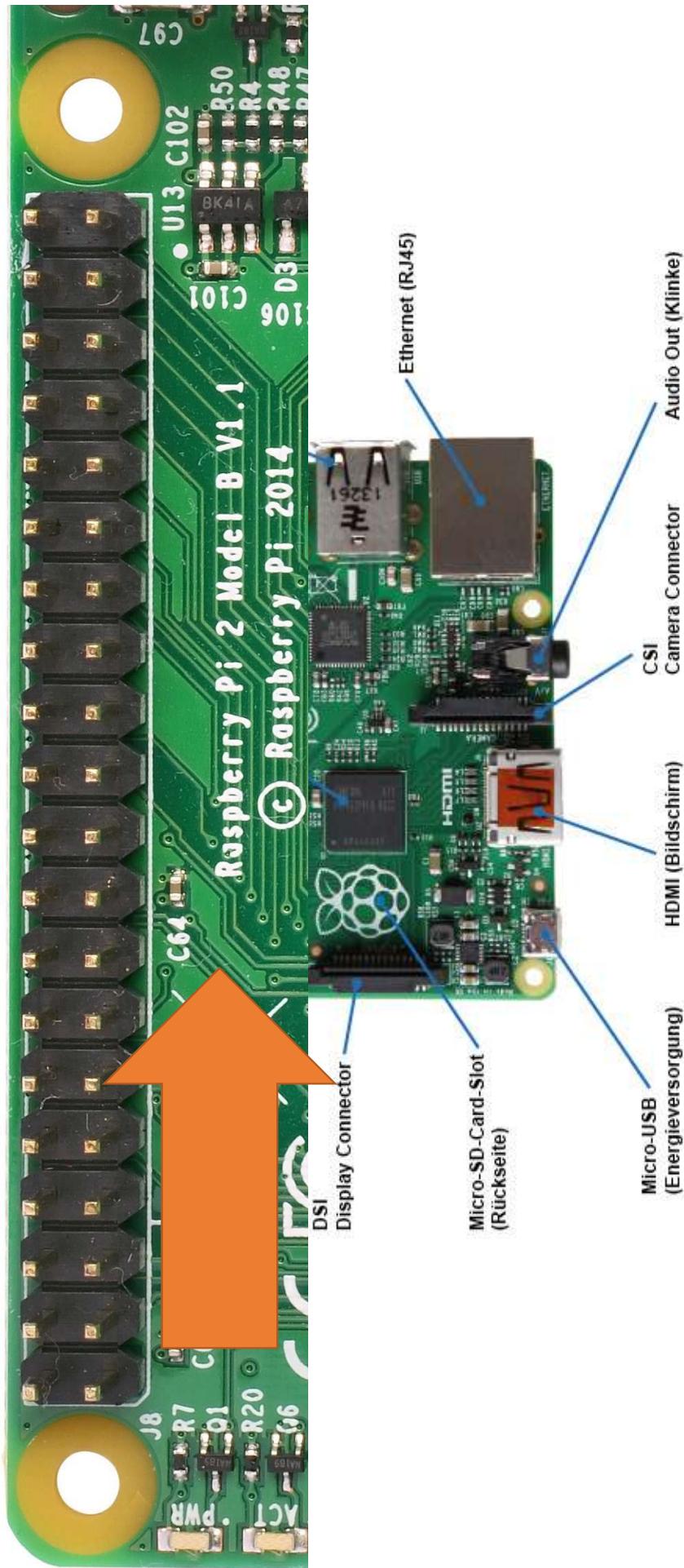
Einsatzmöglichkeiten



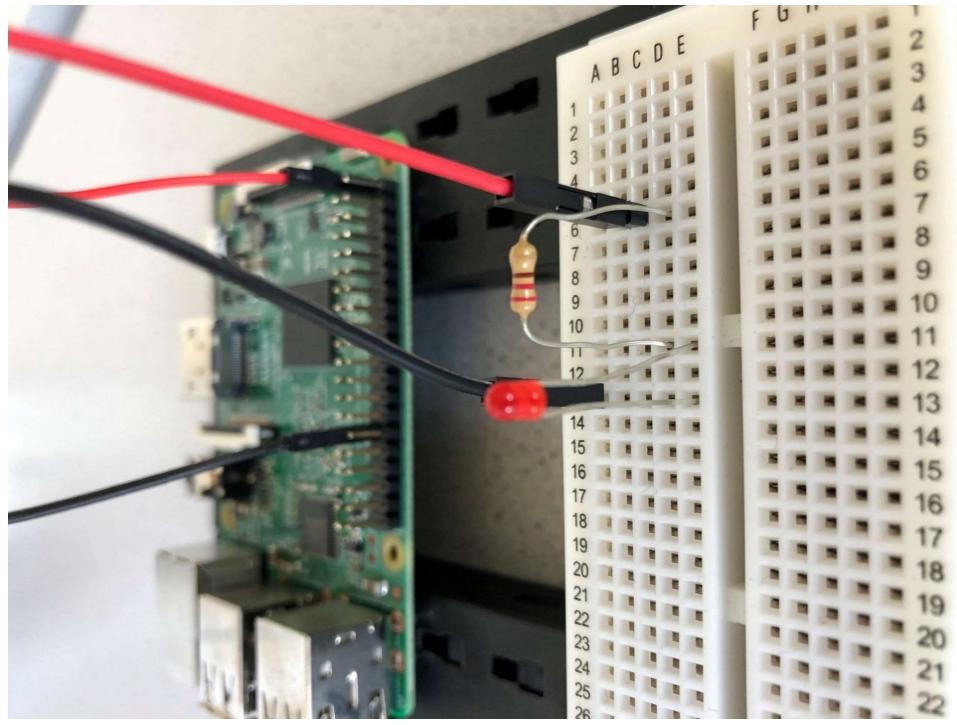
Einsatzmöglichkeiten



Einsatzmöglichkeiten

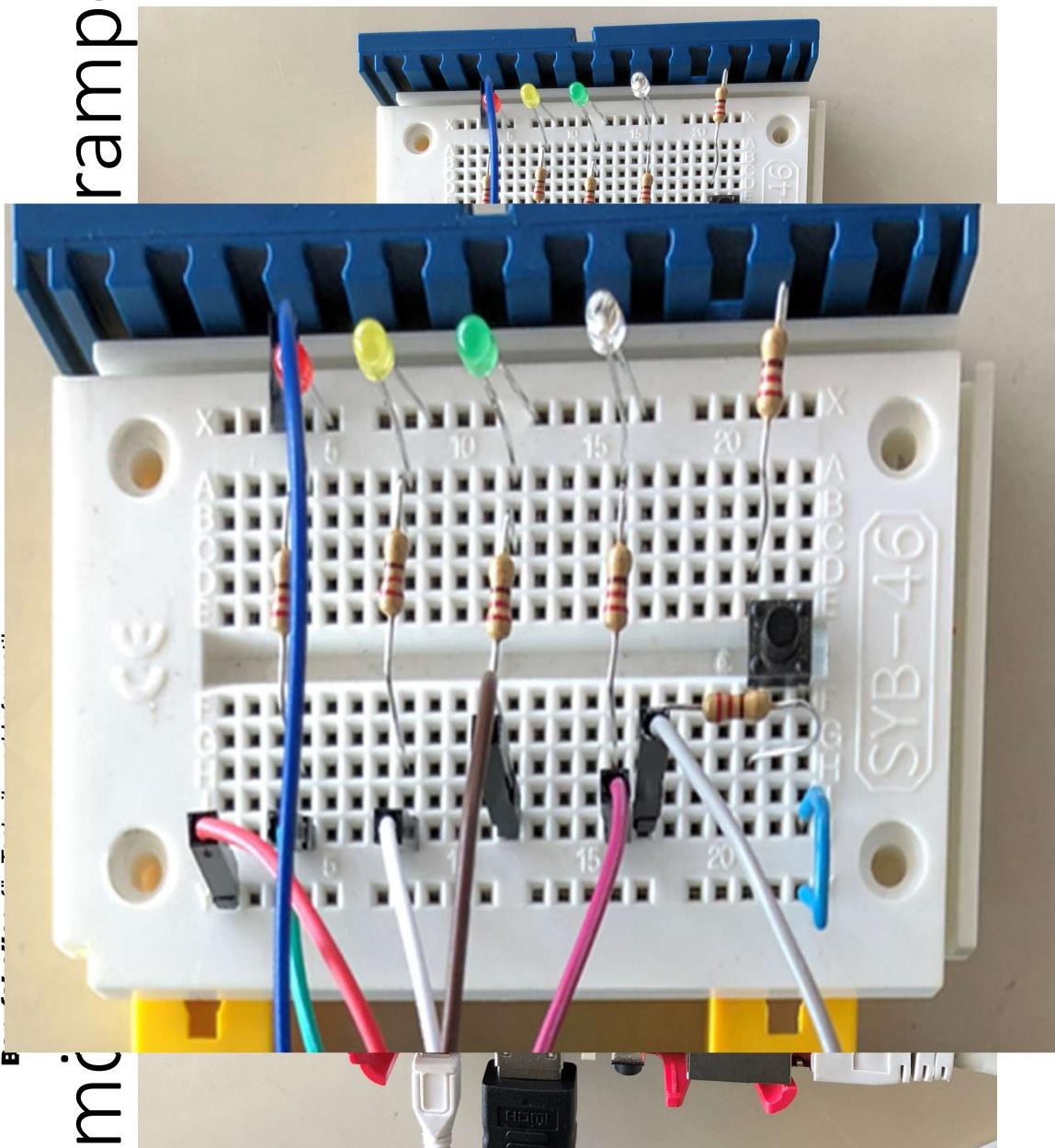


Einsatzmöglichkeiten: Stromkreis mit LED

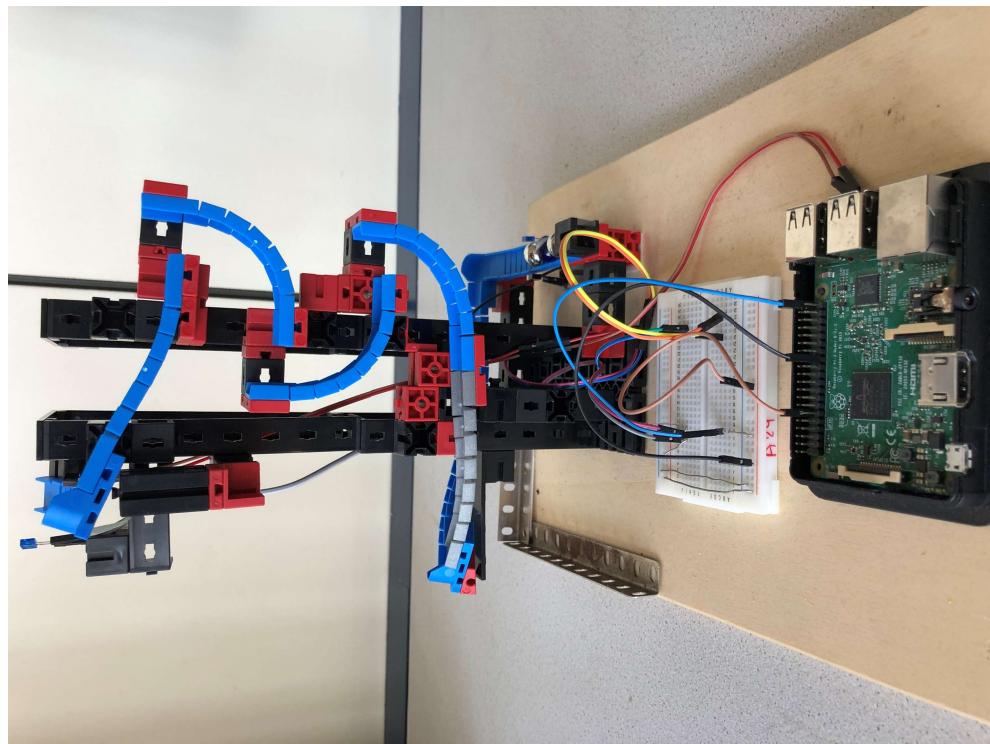


Einsatzmöglichkeit

rampe

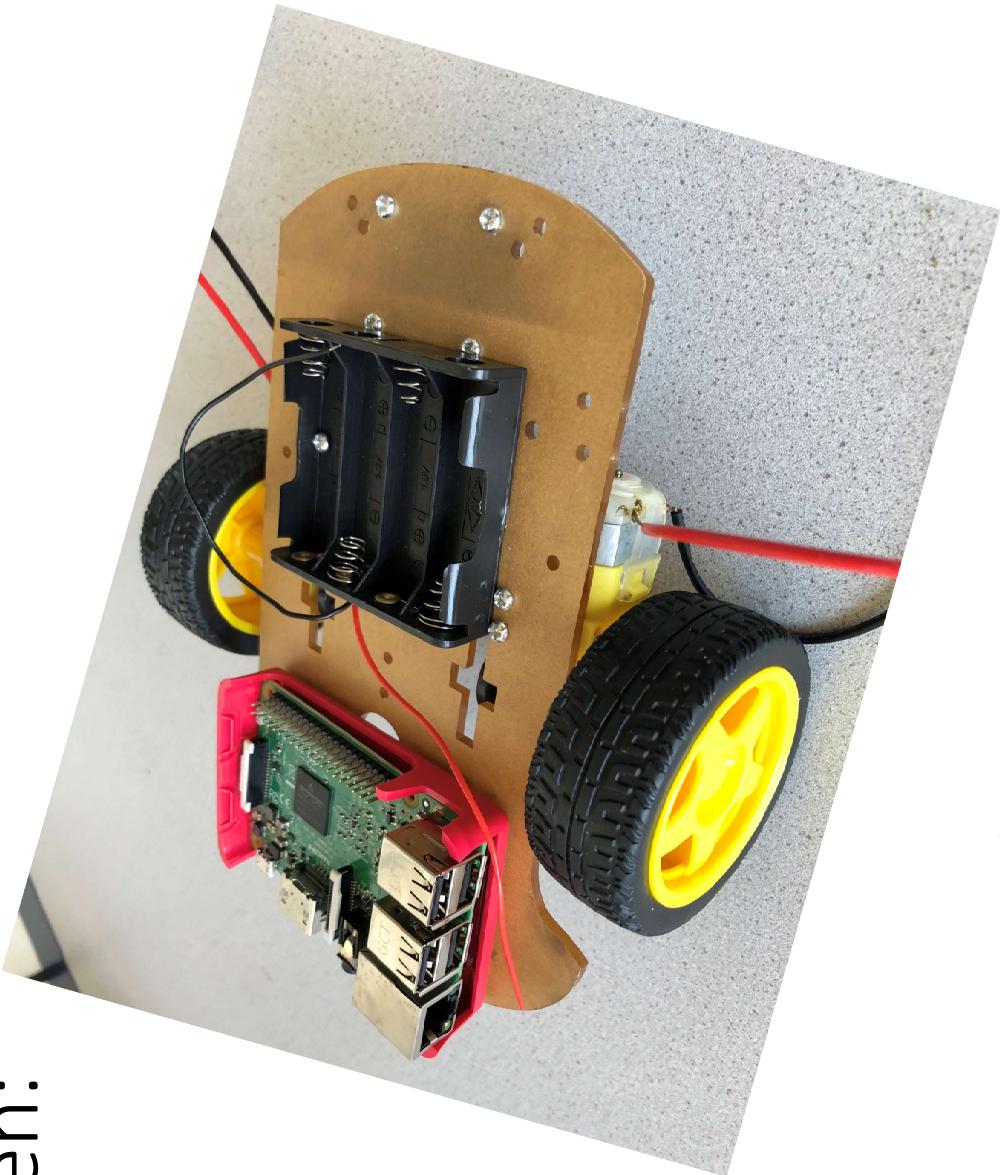


Einsatzmöglichkeiten: Physikunterricht: Beschleunigung und Zeitmessung

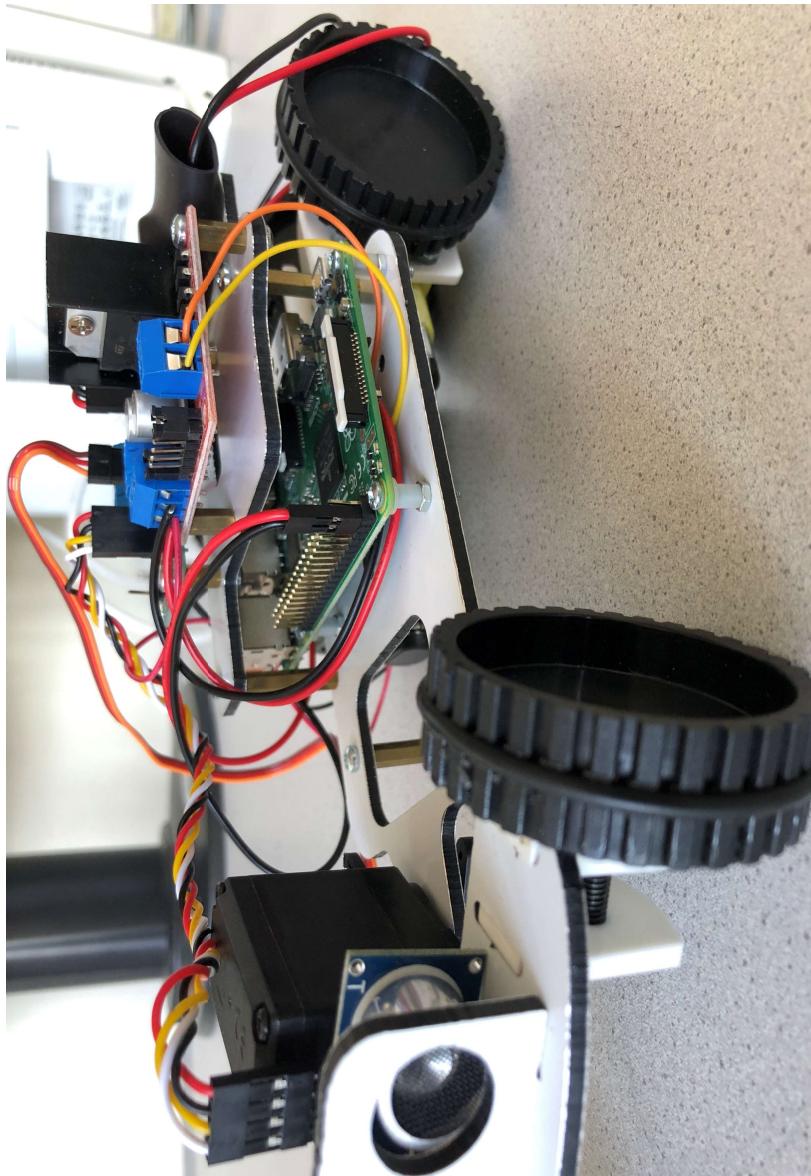


Präsentation BYOD Raspberry Pi

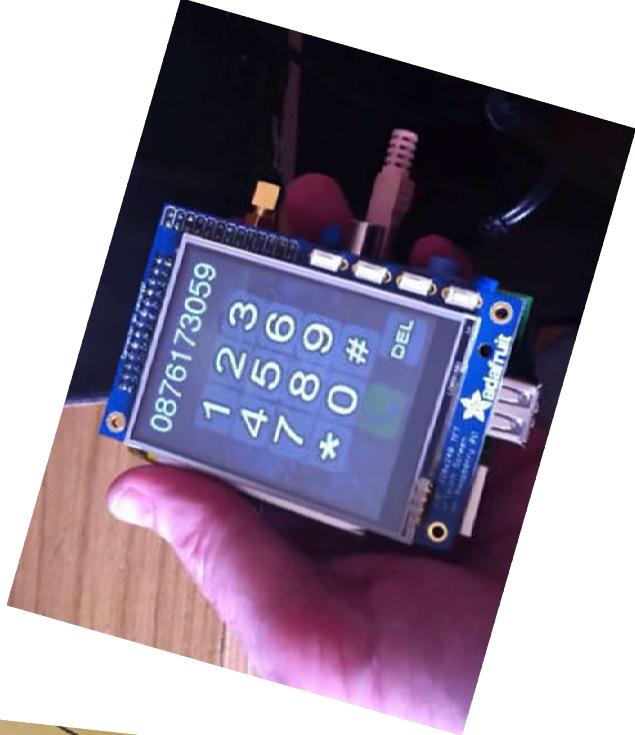
Einsatzmöglichkeiten: Roboterfahrzeug (mit Hilfe von selbstgedruckten Bauteilen mittels 3D-Drucker)



Einsatzmöglichkeiten



Projekte



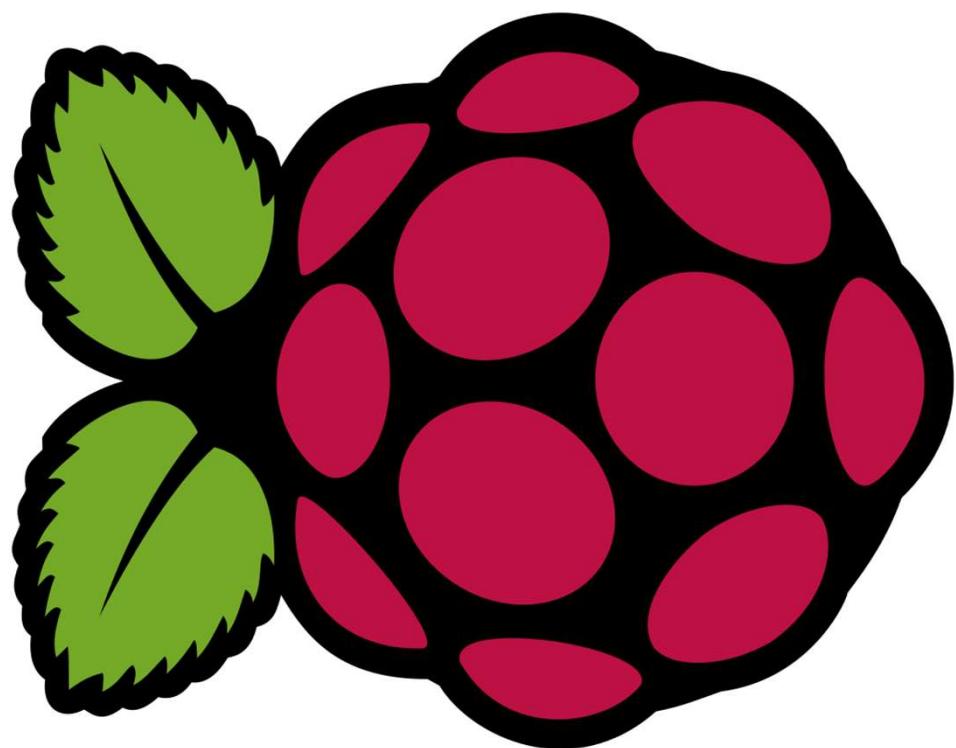
Präsentation BYOD Raspberry Pi

Astro-Pi Mission



Fazit:

- Ermöglicht allen SuS einen Computer zu besitzen
- Ist in Schule und zu Hause einsetzbar
- Kann „normalen PC“ für Standardanwendungen ersetzen
- Kann nur bedingt für Vorbereitungen und Prüfungen bspw. zum NRW-EDV-Führerschein eingesetzt werden (Microsoft Office wird benötigt)
- Ist nicht für Spezialanwendungen konzipiert und einsetzbar (z.B. CAD-Software; Netzwerktechnik; Grafikbearbeitung)



Noch Fragen?

Dipl.-Hdl. Markus Dobrowolski

dob@btineuuss.de