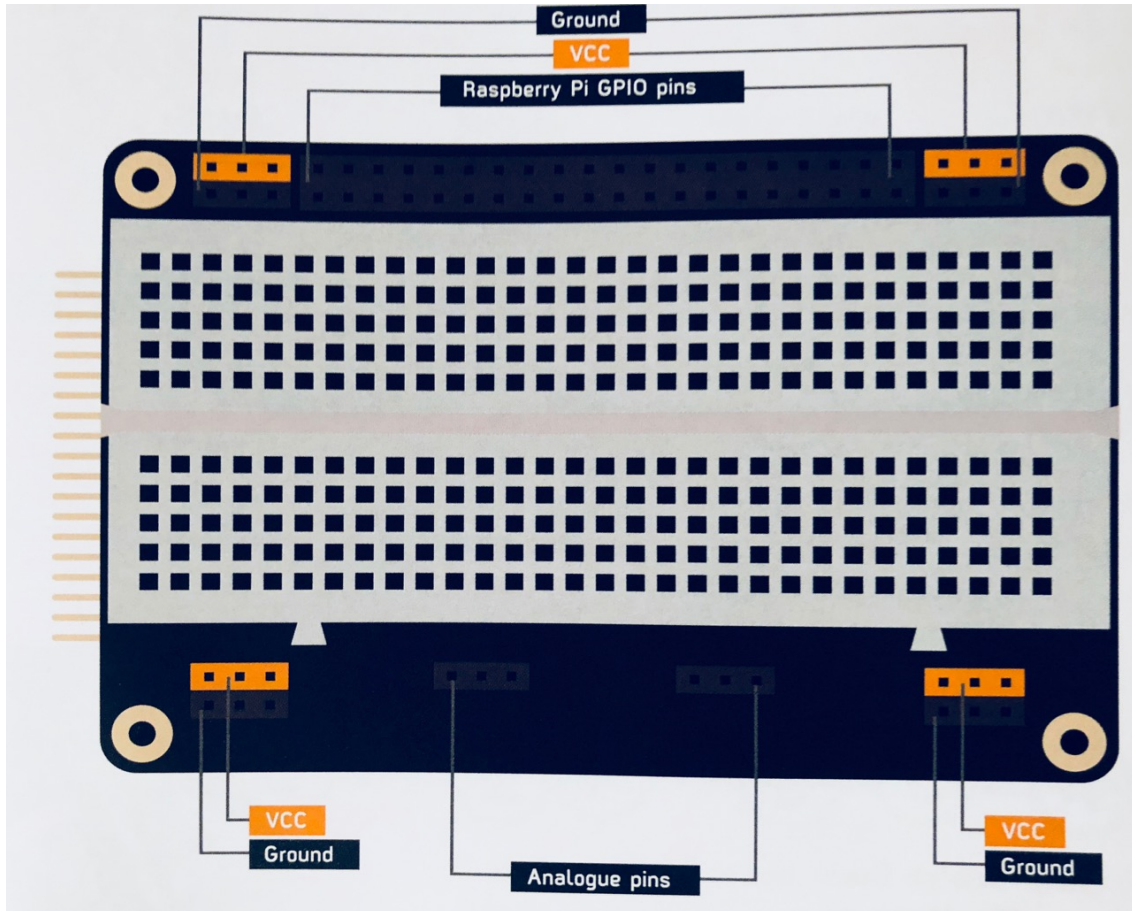# Pi-topPROTO+

Raspberry Pi GPIO BCM numbering

Pictures from pi-top.com and pinout.xyz.

Using the analogue pins of the pi-topPROTO+ board

Installation

On pi-topOS, the library for using the analogue pins of the pi-topPROTO+ board are installed automatically. On Raspbian Stretch, install the library with the following command:

```
sudo apt install python3-pt-inventor
```

The library is installed at */usr/lib/python3/dist-packages/ptinventor*.

Library functions

Use the following at the beginning of your python script:

```
from ptinventor import adc
adc = adc.ADCProbe()
```

The following functions are available:

readvalue(channel)
>   read the current value of one adc channel. Channel can be between 0 and 5)

result = read_all()
>   returns a list of the values of the 6 analogue pins (result[0] to result[5]).

poll(delay = s)
>   print values of all 6 analogue pins every s seconds (default 0.5 seconds)

Examples

```
from ptinventor import adc
adc = adc.ADCProbe()
# access value of one analogue pin
print ("Value of analogue pin 0: ", adc.read_value(0))
print()
# access value of all analogue pins
result = adc.read_all()
for i in range(0,6):
    print("Value of analogue pin ", i,": ", result[i])
print()
# Print table of all analogue pins
adc.poll (delay = 2)
```