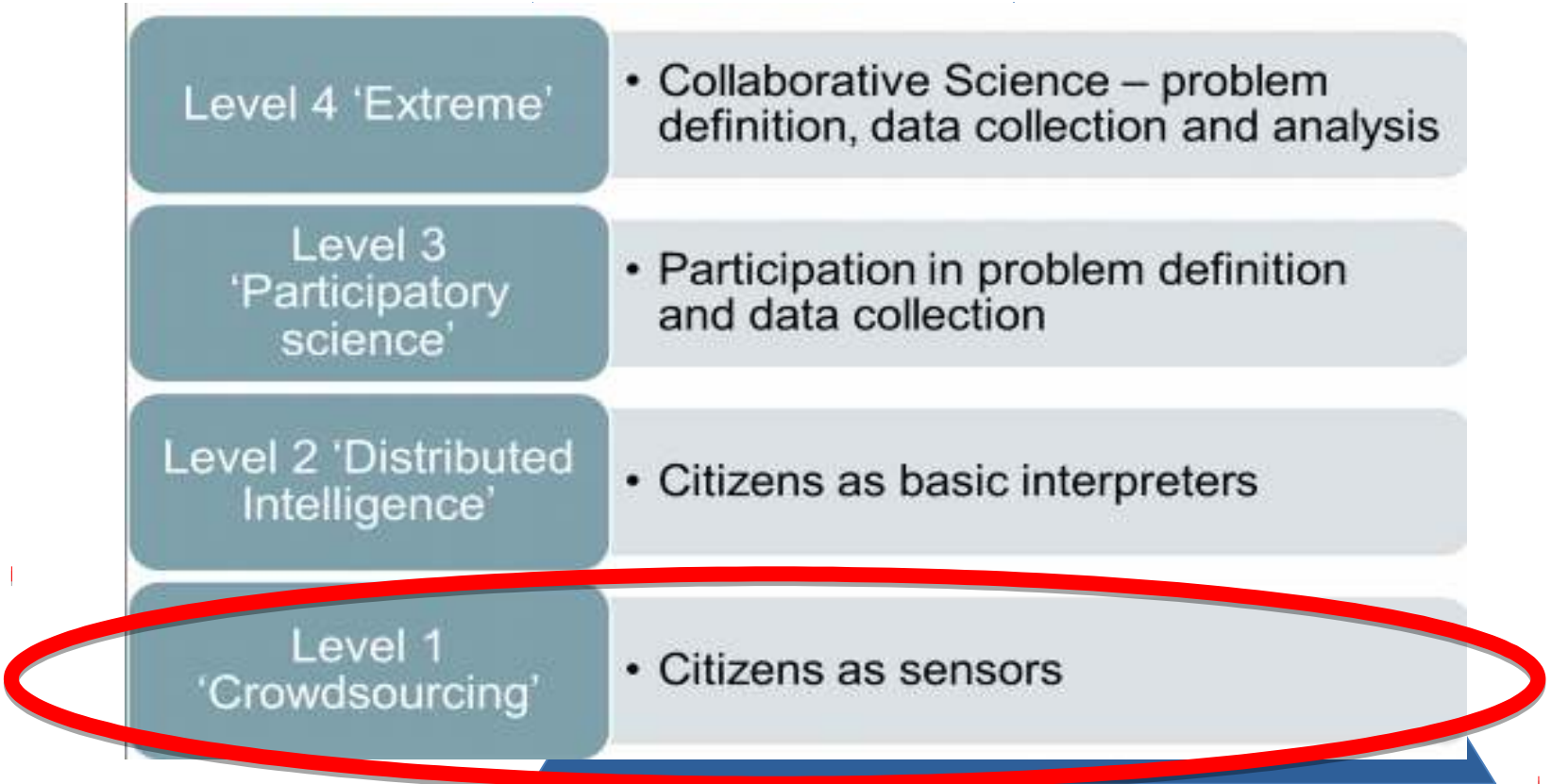
ifgi
Institute for Geoinformatics
University of Münster

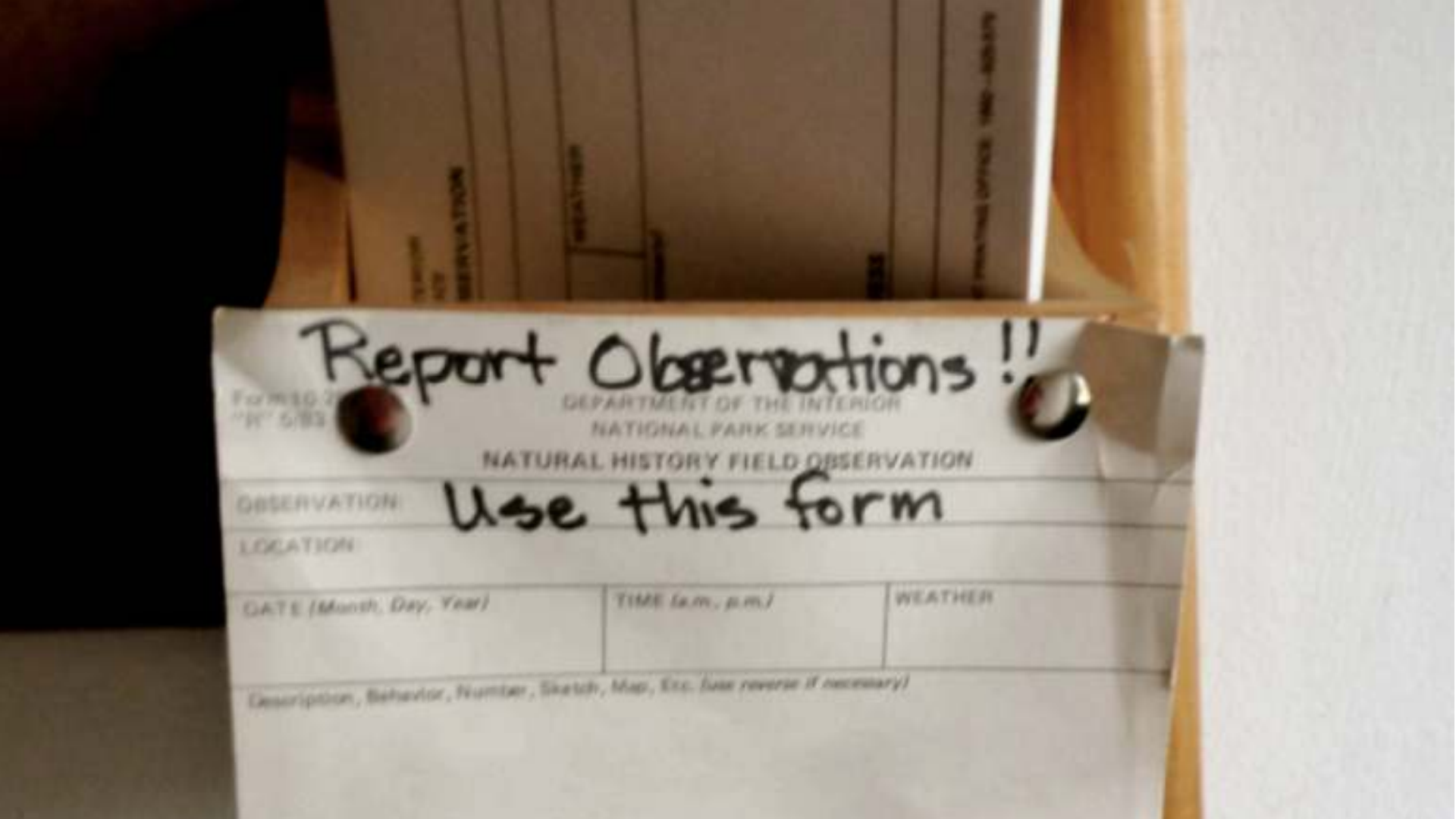
senseBox

...senseBox und openSenseMap: Citizen Science für Sensordaten

CITIZEN SCIENCE

M. Haklay (2011)




Report Observations !!
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
NATURAL HISTORY FIELD OBSERVATION
OBSERVATION
Use this form
LOCATION
DATE (Month, Day, Year)
TIME (a.m., p.m.)
WEATHER
Description, Behavior, Number, Sketch, Map, Etc. (use reverse if necessary)


SENSEBOX
SENSORS
REAL WORLD


senseBox:edu
senseBox:home
Make Light


senseBox:home


senseBox

Wo sind die Daten?

openSenseMap 364 senseBoxen 78781652 Messungen

Erkunden | Interpolation | Filter | Datendownload | Registrierung | Info

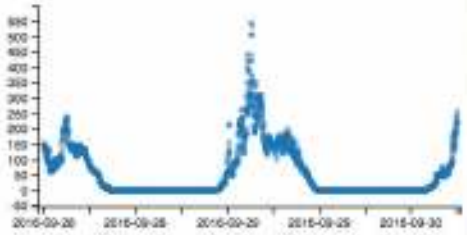
IZW

Gruppe: MakeLight

Hier stehen weitere Informationen zu dieser senseBox, der Besitzer dieser Station hat jedoch nichts hinterlegt.

UV-Intensität

255 µW/cm² — vor einer Minute



Beleuchtungsstärke

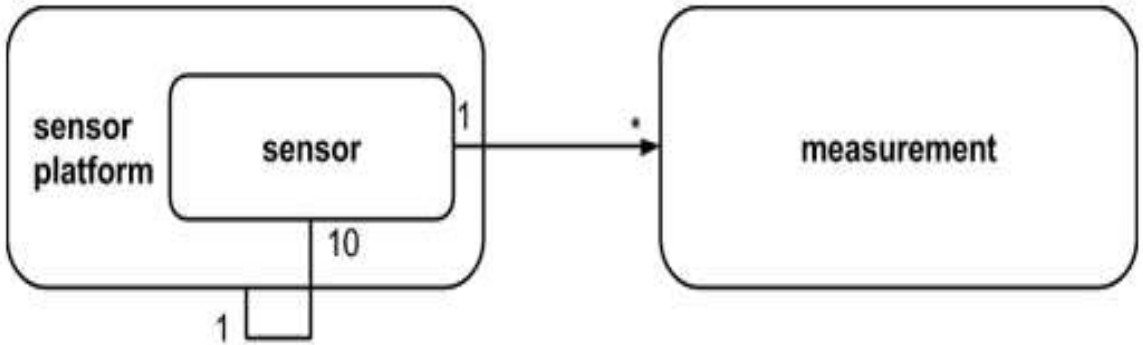
12576 lx — vor einer Minute

Luftdruck

1009.01 hPa — vor einer Minute

rel. Luftfeuchte

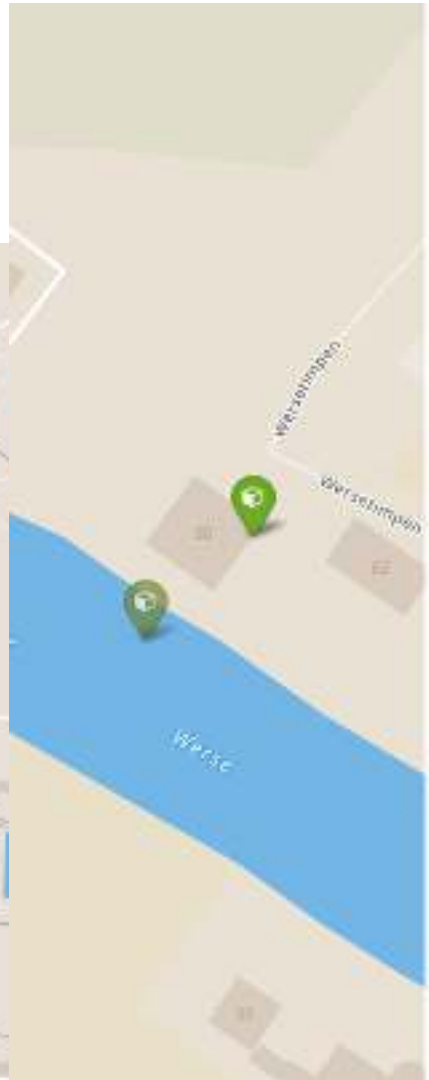
Datenmodell



>350 Boxen
>150 Millionen Messungen
~ 400 Messungen pro Minute


o p e n

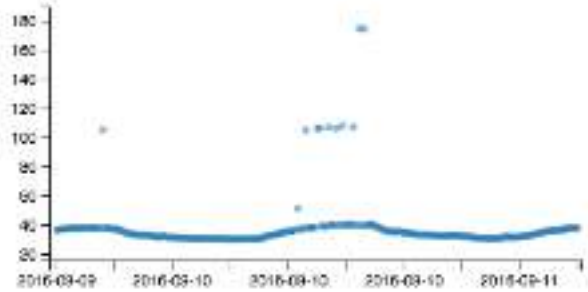
OPEN...



These values don't refer to official gauge zero. The values are based on the minimum value measured during developemnt and are relativ to that. Sensor is currently under development.

Anderer

37.9 cm vor 19 Tagen



OPEN...


DEVSEED SENSE LISBON
TEMPERATURE
21.8 °C
19.6 °C
avg today
21.4 °C
avg yesterday
HUMIDITY
75.8 %
77.3 %
avg today
68.7 %
avg yesterday
UV LIGHT
80 µW/cm²
12.4 µW/cm²
avg today
350.4 µW/cm²
avg yesterday
LUMINOSITY
2630 lx
432.7 lx
avg today
15304.6 lx
avg yesterday
AIR PRESSURE
1014.2 hPa
1014.5 hPa
avg today
1016.0 hPa
avg yesterday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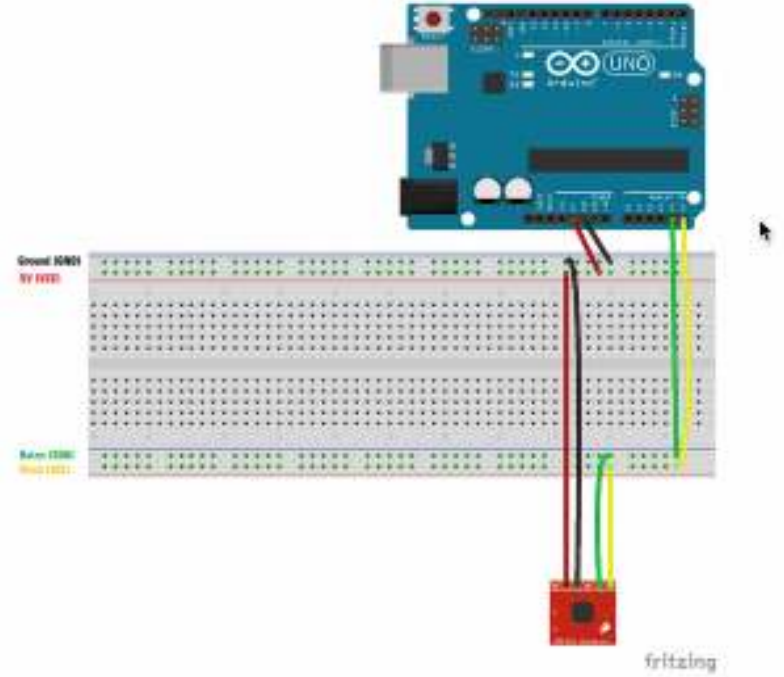
UV-Lichtintensität wird in Mikrowatt je Quadratzentimeter (µW / cm²) gemessen. Unser Sensor misst im Bereich von ca. 300 - 400 nm, nimmt also nur UV-A Strahlung auf (für genauere Angaben beachte das Datenblatt).

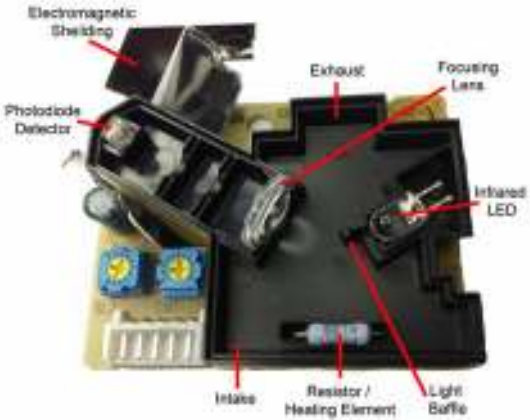
Aufbau



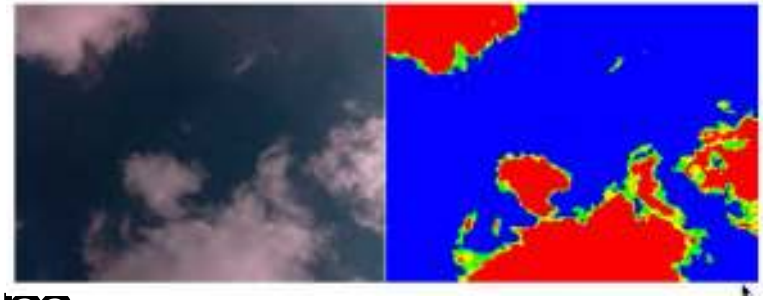
Schließe den Sensor an den Arduino an, wie es in der Grafik dargestellt ist.

Um über den I²C Bus auf den Sensor zugreifen zu können, müssen wir die Bibliothek `Wire.h` importieren und die Adresse des Sensors als Konstante definieren. Wir benötigen weitere Konstanten um

senseBox



- Gehäuse
- Luftqualität
- Wolkenabdeckung
- Wasser
- OER / Community
- UV-Messnetz Alpenraum



openSenseMap

- Cloud-Services
- Sicherheit
- Filter
- Statistische Analysetools
- Metadaten
- User Management
- Usability

Vielen Dank für Ihre Aufmerksamkeit

www.sensebox.de
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github.com/sensebox

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