

WERKSTUK IoT






MAKERLAB

2019-20

New Media Development

Dylan Willems

Inhoudstafel

-  Discover
-  Define
-  Design
-  Develop
-  Deliverables

Discover

- Twitter Bot
- Elk uur
- Informeren
- Elke persoon met Twitter
- Informatie: COVID19Py Python package



Define – Analyse

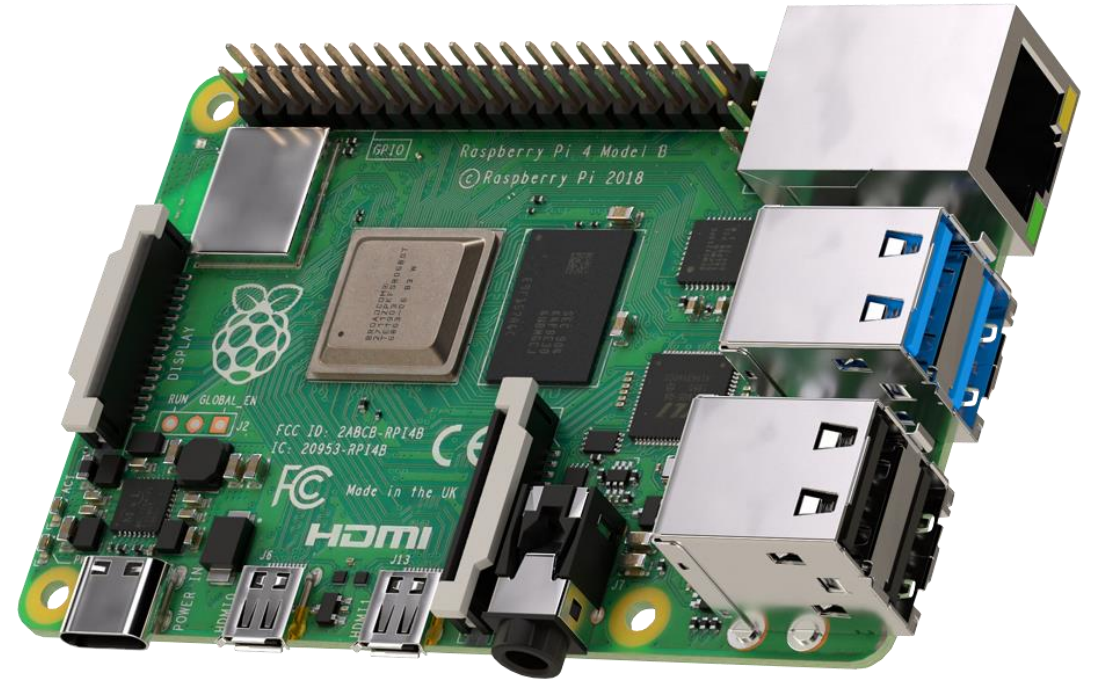
- Concurrentie
- Gelijkaardige Twitter accounts
- Brazilië, Argentinië, Duitsland
- Persona: Twitter-account hebben + volgen

Define – Software

- 🦠 Python v3.7
- 🦠 Twython Python module
- 🦠 COVID19Py

Define – Hardware

- Raspberry Pi 4
- Breadboard
- Male jumper wire
- Temperature sensor DHT22
- 40 pins regenboog GPIO kabel

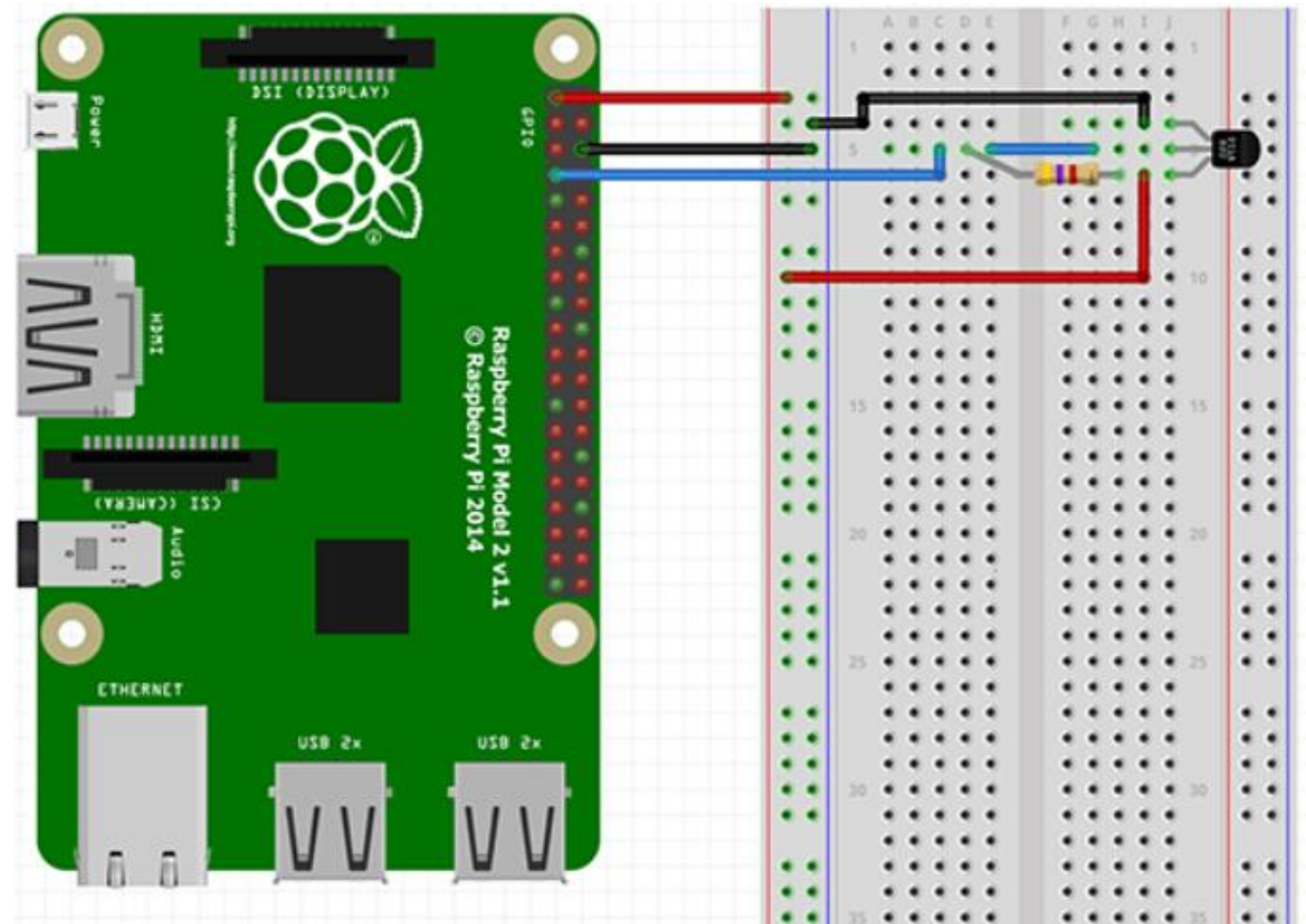


Define – Inspiratie

- 🦠 Al lang eens Twitter Bot maken
- 🦠 Site *Raspberry Pi Projects*
- 🦠 Huidige coronacrisis

Design

- Tweets op Twitter
- Temperatuurmeting



Develop – Code Snippet 1

```
twitter = Twython (  
    consumer_key,  
    consumer_secret,  
    access_token,  
    access_token_secret  
)
```

Develop – Code Snippet 2

```
covid19 = COVID19Py.COVID19()  
  
latestStats = covid19.getLatest()  
  
location = covid19.getLocationByCountryCode("BE")
```

Develop – Code Snippet 3

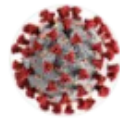
```
tweet = "My first tweet!"  
twitter.update_status(status=tweet)  
print("Tweet successfully sent: " + tweet)
```

Deliverables – Handleiding

- Twython
- Twitter account aanmaken
- Twitter Developer Account
- Dashboard > App
- API keys

Deliverables – Handleiding

- Connectie Twitter API
- Test connectie
- COVID19Py
- Selecteer land
- Laatste nieuwe data opvragen



CoronaTweetsBE @CoronaTweetsBE · 2 u
My first tweet!



Deliverables – Handleiding

- Brainstorm & inspiratie
- Materiaal & software
- Materiaal gaan halen
- Research
 - Developer account
 - Python packages
- Twitter account aanmaken + aanvraag developer
- Coderen Python 

