Inleiding programmeren

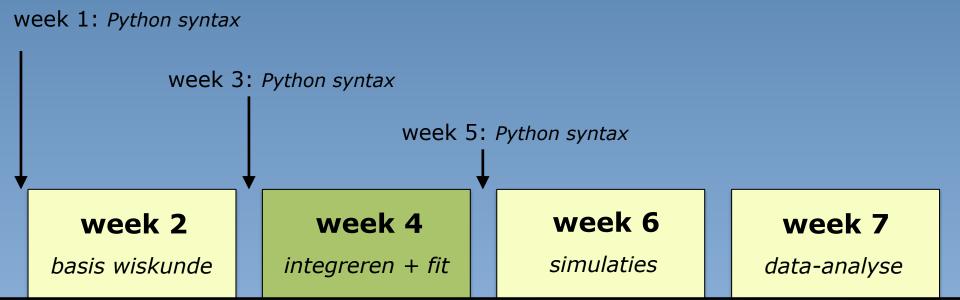
Martijn Stegeman & Ivo van Vulpen

http://progns.mprog.nl

Week 7: data-analyse

programma

Tentamen



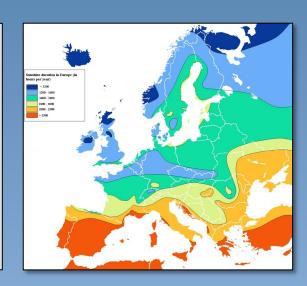


Let op: CSV-reader vandaag niet toegestaan lees regel in en gebruik **split()** functie

Opgave 1: klimaatdiscussie

Data: temperatuur per dag in De Bilt

```
12 08-13 SOUID: Source identifier
13 15-22 DATE : Date YYYYMMDD
14 24-28 TX : Maximum temperature in 0.1 °C
15 30-34 Q TX : quality code for TX (0='valid'; 1='suspect'; 9='missing')
16
17 This is the blended series of station DE BILT, NETHERLANDS (STAID: 162)
18 Blended and updated with sources:522 2128
19 See files sources txt and stations txt for more info.
21 STAID, SOUID
                   DATE,
                           TX, Q_TX
            722,19010101.
      162.
                           -31.
      162,
                           -13,
                                           Maximum temperatuur op
      162.
      162,
                                           1 januari 1901 was -3.1 °C
      162,
      162,
            522,19010106,
      162,
            522,19010107,
      162.
            522,19010108,
```

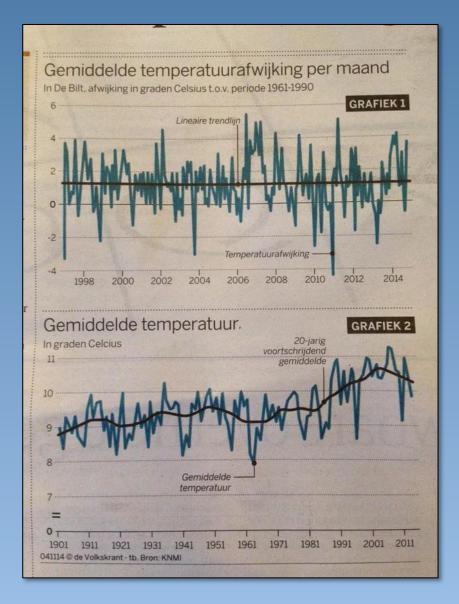


Vragen:

- maximum en minimum temperatuur in 20e eeuw
- langste vorstperiode
- gemiddelde temperatuur op je verjaardag en de distributie zelf

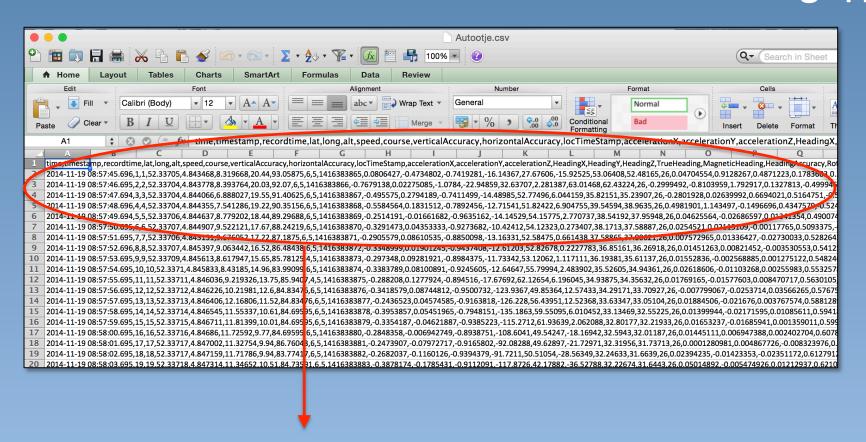
- ...

Volkskrant 3 november



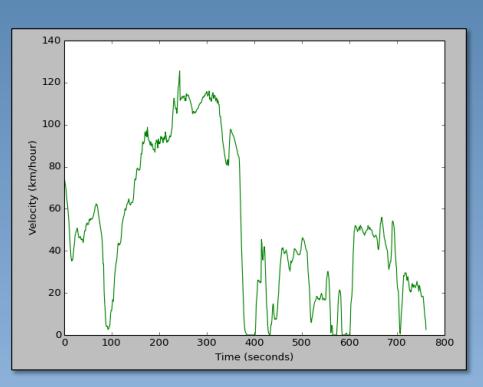
Opgave 2: sensor-data iPhone

Data verzameld van alle sensor-data in iPhone: **SensorLog App**

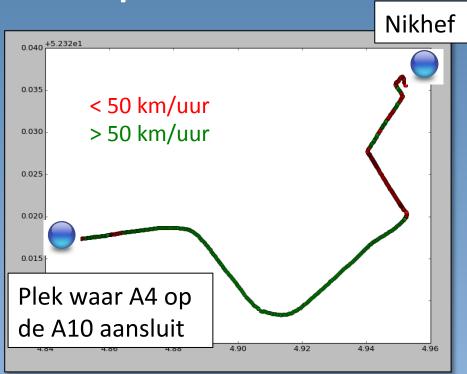


Tijd, GPS, snelheid, versnelling, ...

Snelheid versus tijd



GPS-positie



Succes met de opgaves