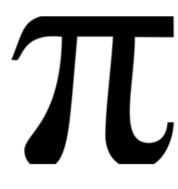






# Open Data & SodaPy









## Agenda

- Open Data
- Socrata & Open Data Network
- Socrata API (SODA)
- SodaPy Demo

## Open Data

Data should be freely available to everyone to use and republish as they wish.

- Availability and access
- Redistribution
- Universal participation

#### Socrata

- Founded in 2007 in Seattle, WA.
- Public sector focused data as a service (DaaS) platform
- Goal is to break down data silos

#### Open Data Network

- Introduced by Socrata in 2014
  - Indexes and catalogues all open data sets into a single self-service platform
- Public Sector / Government
  - 314 total (U.S. & foreign) participants



## Socrata API (SODA)

- Code name "SODA"
- Supports many languages & response formats
  - JSON, XML, CSV ..and more
  - https://dev.socrata.com/libraries/
- API endpoints
  - Every dataset has its own endpoint
  - Every individual record has its own endpoint
  - Unique 8 character ID (e.g. ydr8-5enu)

## Socrata API (SODA)

- Filtering mechanisms
  - Simple Filters
    - Any field within the data can be used as a filter
      https://data.cityofchicago.org/resource/f7f2-ggz5.json?fuel\_type\_code=LPG
  - SoQL (Socrata Query Language) Filters
    - Borrows heavily from SQL
      https://soda.demo.socrata.com/resource/4tka-6guv.json?\$where=magnitude > 3.0

# SodaPy Demo

