# Datasette

Exploring data in the browser

# What?

Datasette is a tool for exploring and publishing data. It helps people take data of any shape, analyze and explore it, and publish it as an interactive website and accompanying API.

Datasette is aimed at data journalists, museum curators, archivists, local governments, scientists, researchers and anyone else who has data that they wish to share with the world.

https://datasette.io/

# How?

- Web-browser based
- Uses (by default) sqlite databases
- Run SQL queries to obtain tabular data
- Tabular data can be displayed, plotted
- (via plugins) supports geospatial data
- JSON API
- Deploy on local system, Heroku or Google Cloud Run
- Customizable via settings
- Custom pages/templates
- ...

# Get started

- pip install datasette
- But: at time of writing Pandas 2.x seems to be causing problems...
- Useful tools:
    - csvs-to-sqlite (via pip): turn CSV files into sqlite databases
    - geojson-to-sqlite (via pip): for ingesting GIS JSON data
    - datasette-vega (via pip): for inlining plots (bar, line, scatter)
    - datasette-cluster-map (via datasette): for cluster maps of GIS data
- Minimal (useful) requirements:

    datasette pandas<2.0.0 click<8.0 datasette-vega==0.6.2 csvs-to-sqlite==1.3 geojson-to-sqlite==1.1.1

# Demo

Let's give it a go!