LIBRARY DATA STORYTELLING

Dave Rowe, Libraries Hacked



IMAGE CONTENT FROM LIBRARYON.ORG

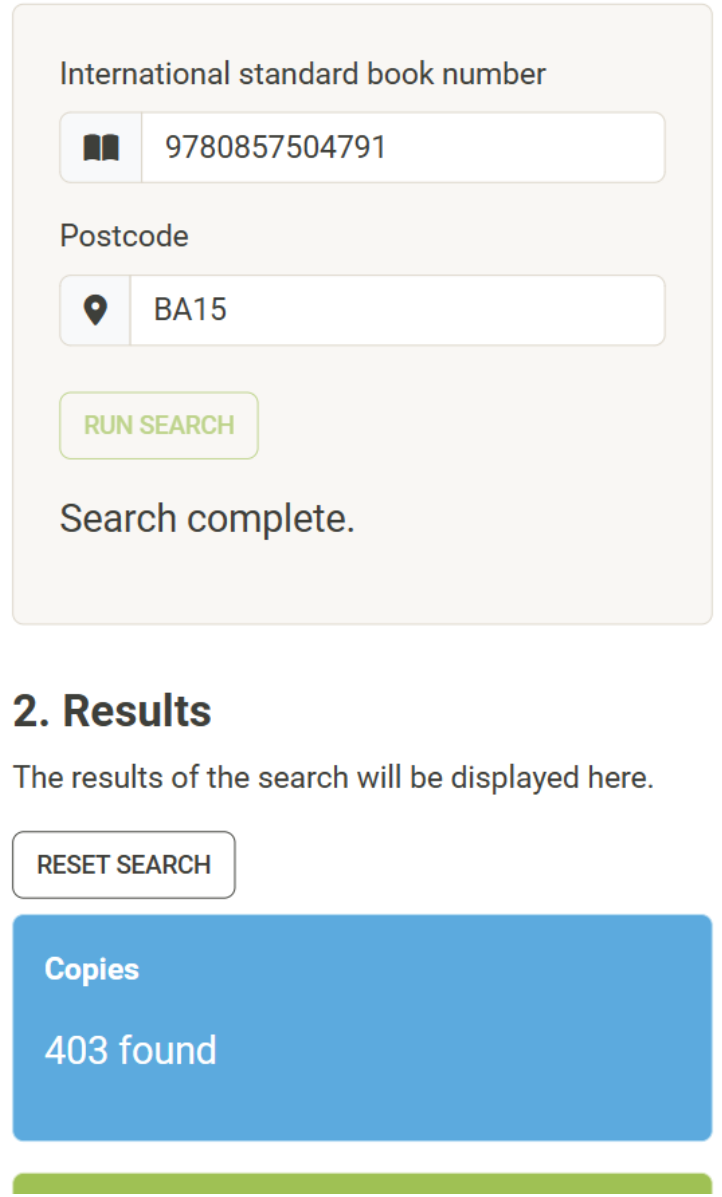
WHO OR WHAT IS LIBRARIES HACKED?

Founder: Me in 2014

“Promoting open data and digital prototypes in libraries”

Digital prototypes for public libraries: locations, mobile libraries, catalogue searching, data storytelling and visualisation.





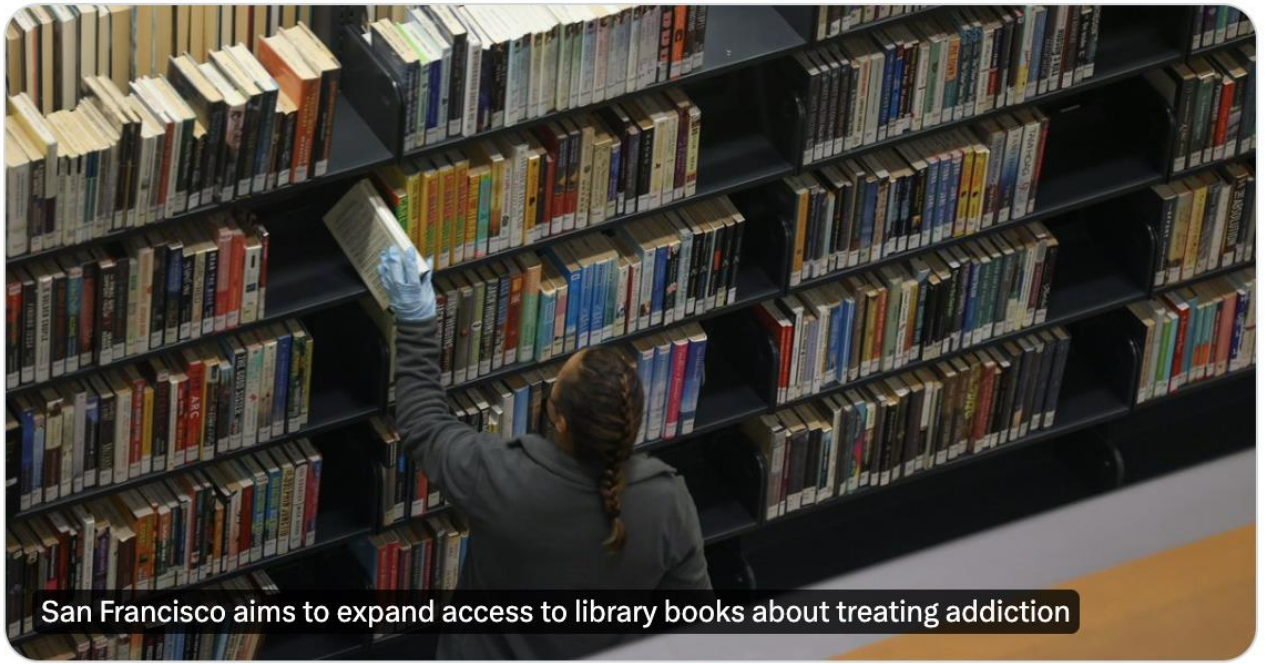
AN EXAMPLE OF LIBRARY DATA STORYTELLING

- San Francisco public libraries reported that the most stolen books were about recovering from addiction.
- A record 806 people died of a drug overdose in the city last year.
- Introduced legislation to expand a pilot program to distribute addiction recovery books for free at the city's 28 public libraries

The San Francisco Standard
@sfstandard

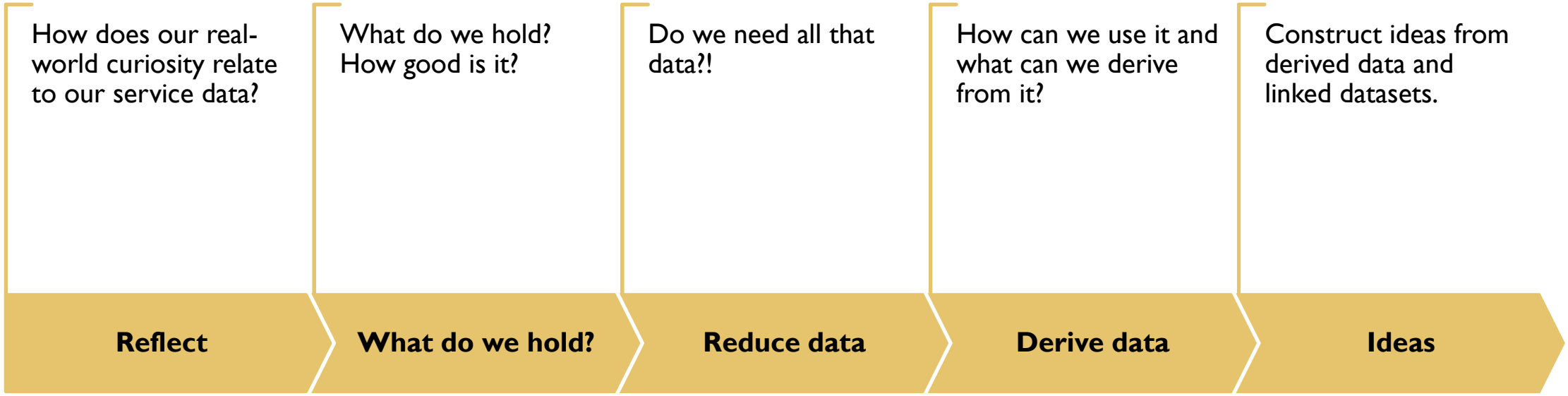
Any guesses as to what kinds of books are stolen the most from SF's libraries?

Turns out they're actually books about recovering from addiction. Here's how city officials are looking to distribute them for free.



From sfstandard.com

DATA STORYTELLING METHOD





LIBRARY MEMBERSHIP

What does it mean and what can we do with it?

WWW.SLIDO.COM

EVENT CODE: LIBRARYDATA



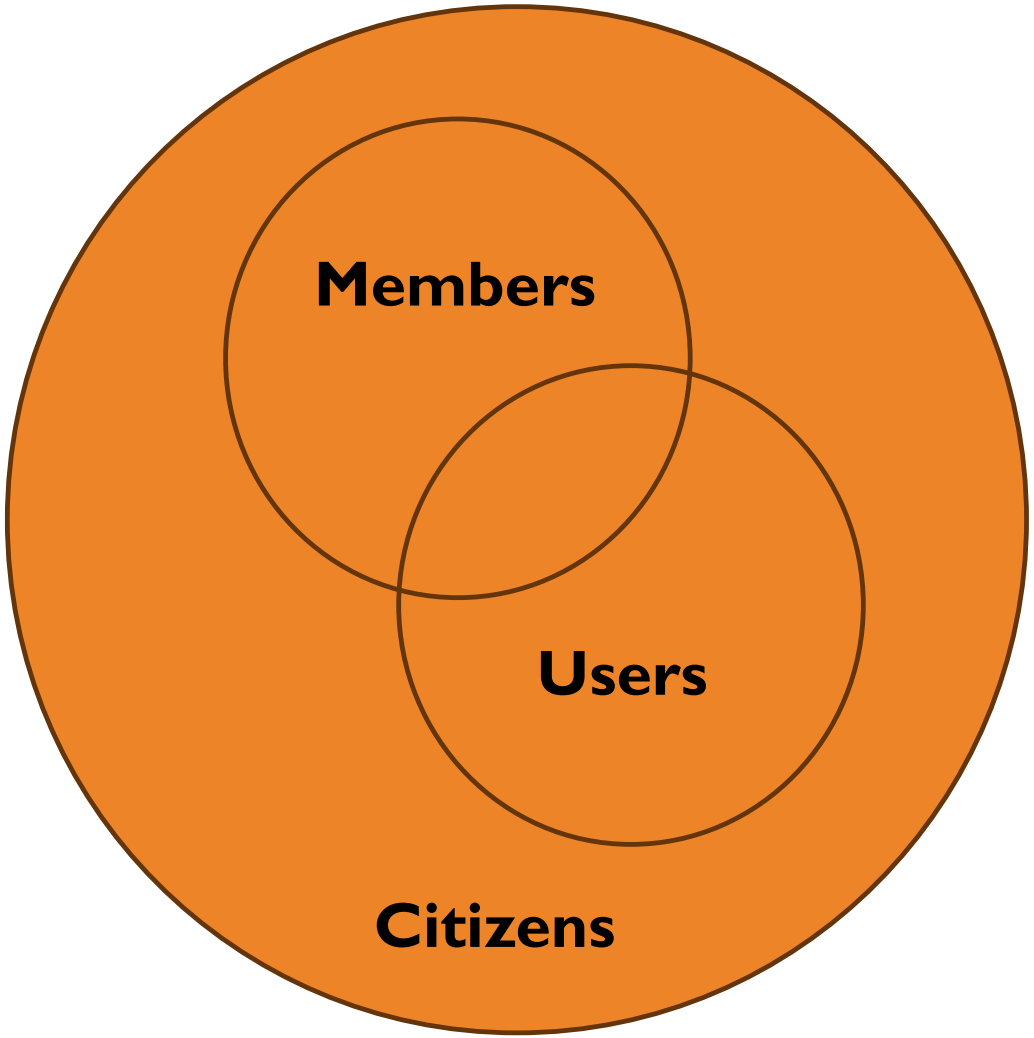
ACTIVITY: WHAT WOULD YOU LIKE TO UNDERSTAND ABOUT YOUR LIBRARY MEMBERSHIP?

WHAT DO WE MEAN BY MEMBERSHIP?

Citizens: members of the public (customers)

Members: People with a library account (cardholders)

Users: People who are actively using library services



WHAT DATA DO WE HOLD?

ID	Name	Title	Address	Postcode	Email	Phone
123456789	Dave Rowe	Brigadier	2 Bag End	BA1 1RG	info@librarieshacked.org	07989898987

Data should be required for operational purposes

WHAT MIGHT WE ALSO HOLD?

Contact phone number	Mobile phone number	Gender	Ethnicity	Sexual orientation	Religion	Disability	Nature of disability
07901234567	07901234567	Prefer not to say	Prefer not to say	Prefer not to say	Prefer not to say	Prefer not to say	Prefer not to say

Do we use this data, and should we have it?

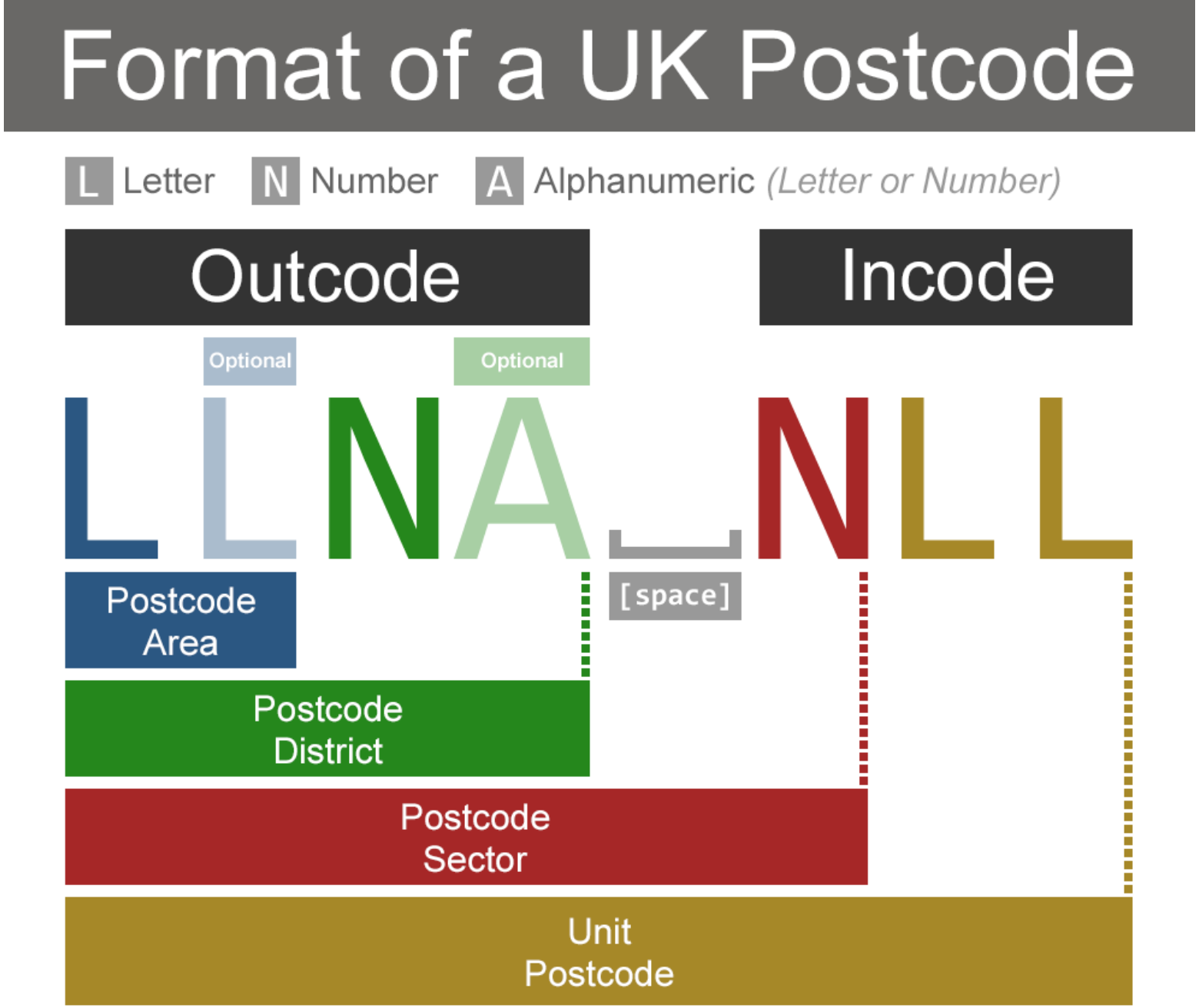
WHAT CAN WE USE FOR DATA ANALYSIS?

~~ID~~	~~Name~~	~~Title~~	~~Address~~	~~Postcode~~	~~Email~~	~~Phone~~
~~1234567 89~~	~~Dave Rowe~~	~~Brigadier~~	~~2 Bag End~~	~~BA1 1RG~~	~~info@libraryshacked.org~~	~~0890989 8765~~

Most of this is personally identifiable

POSTCODES

- A postcode can include 1-100 addresses
- Administered by Royal Mail
- Not very useful for community analysis
- There are about 1.8million active postcodes
- Every month ~3000 new ones are created and 120 deleted
- There are some special postcodes like Santa: XM4 5HQ (previously SANTA1)

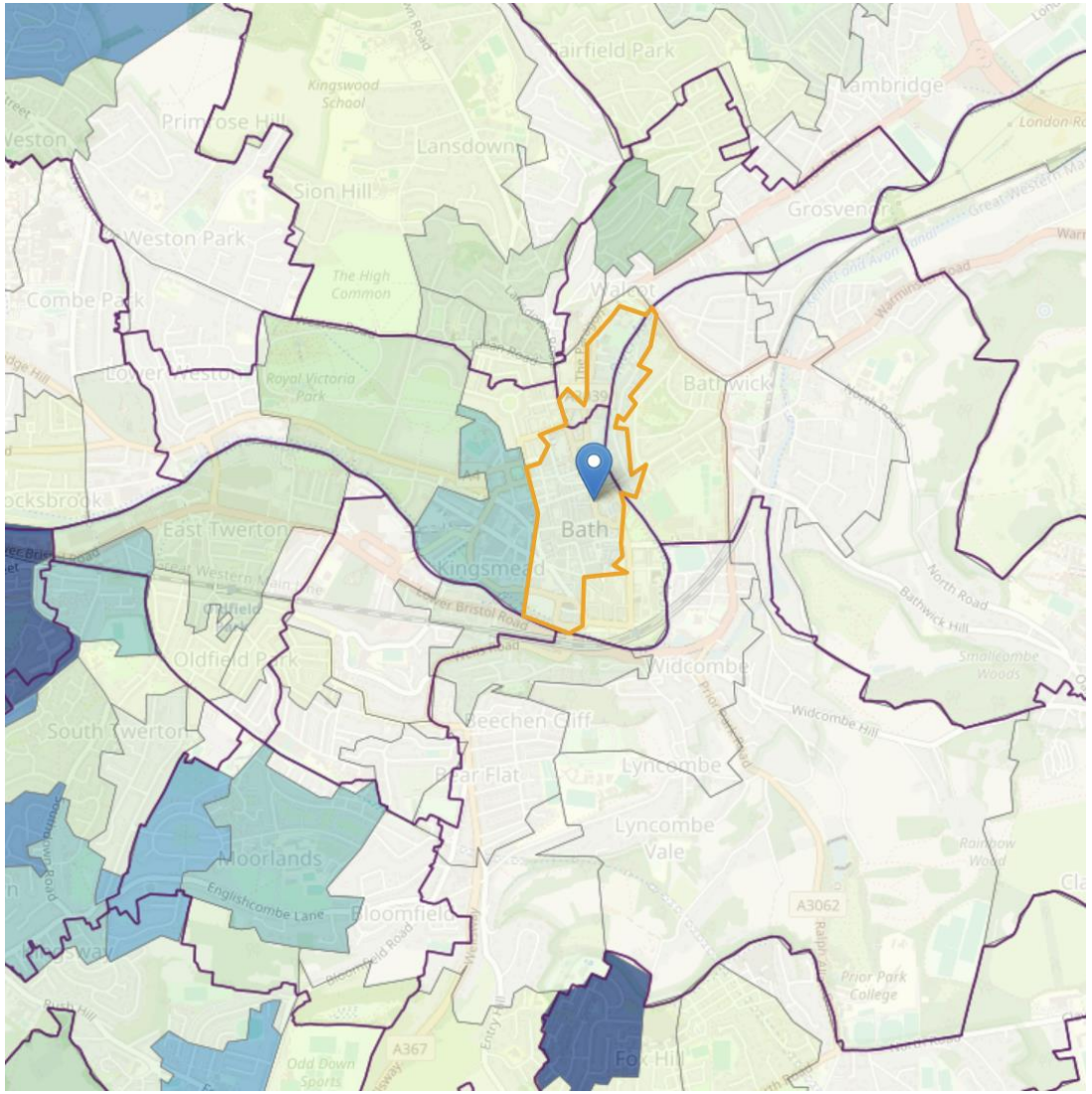


Free to use for any purpose, free to modify, please attribute.

GetTheData.com

ANONYMISATION

Postcode	Lower super output area
BA1 1RG (Could be 1 person)	E01014370 (~1500 people)



WHAT CAN WE DERIVE FROM LSOA (VIA POSTCODE)?

Deprivation

- Income
- Employment
- Health
- Education, skills, and training
- Crime
- Barriers to housing and services
- Living environment

Habits

- Where people work
- Where people shop
- How they travel

Population

- Population count
- Age ranges
- Religion
- Ethnicity
- Education level

Location

- House prices
- Accommodation types
- Distance to nearest library/mobile stop
- Bus routes
- Train routes
- Accessibility

DEMO

Live - may go wrong

THANK YOU

Dave Rowe

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www.librarieshacked.org

