# Country vs. Country

## An interactive country comparison tool

Lucca Siaudzionis, October 1st

"In _____ they do X, and they have better Y.

Hence, we should also do X here in _____."

"In Switzerland they legalized guns, and they have low homicide rates.

Hence, we should also legalize guns here in Brazil."

(I read this in a published book once)

# Complete Pictures

# Complete Pictures

- Every country is unique

  - And we want to celebrate it

- Every pair of countries has numerous differences and similarities

  - And we want to **visualize** it

# Time-varying Information
**Constantly changing**

- Information seen in time-series:

  - Population

  - Covid-19 cases

  - GDP per capita

  - Immigration rate

  - Gini index (wealth inequality)

  - ...

# Time-Invariant Information
## Rarely change

- Area, location, and languages spoken

- Yearly weather cycle

- Country's stance and laws on major topics, such as

    - Firearms

    - Abortion

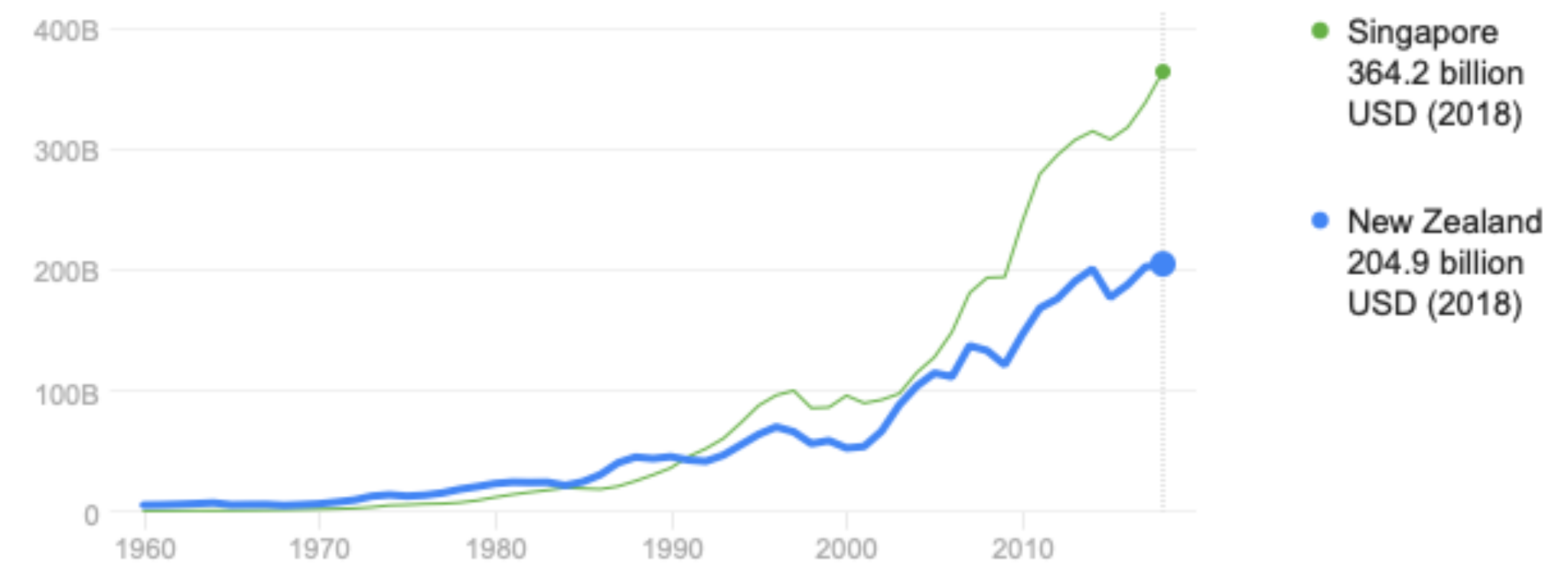    - Recreational drugs

    - …

# The Tool

- **User input**:

  - Two countries

- **Output**:

  - Comparison amongst fields

  - Time-series should be in the same chart (right image)

  - Time-varying information should be grouped according to their **correlation**



(Image obtained from Google search)

# The Data

- All data is public

- It's not difficult to find data for each specific field

- We'll manually add each field at a time for our own specific dataset

# Looking for Partners!