Billionaires - Who are they?

ECE 143 Project - Group 7

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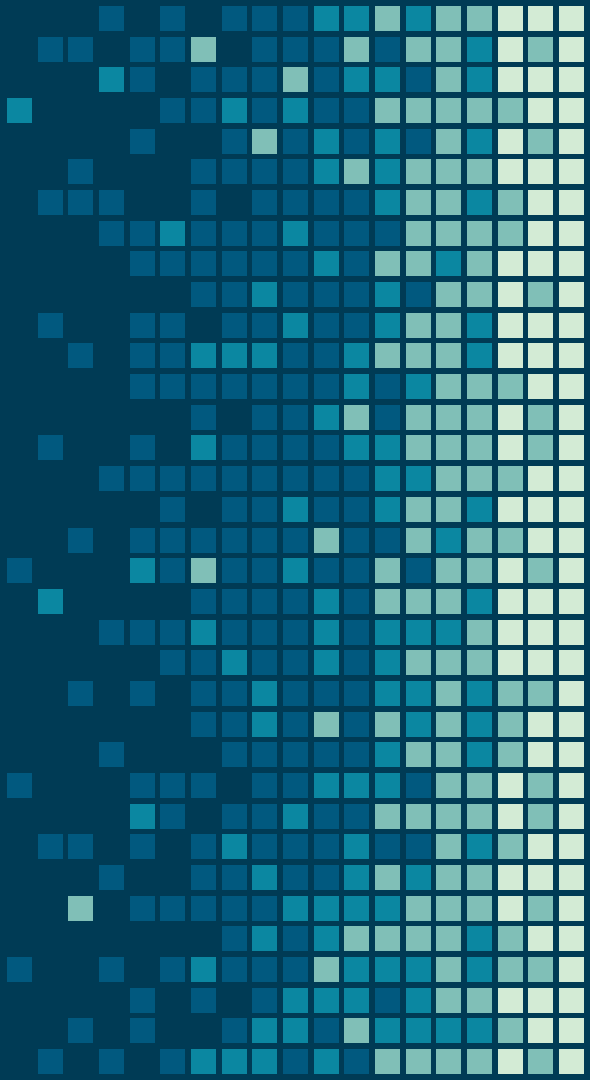


Motivating Questions

Increasing odds of becoming a billionaire:

1. How are billionaires distributed geographically?
2. How are billionaires distributed across factors?
3. How do these factors change in different areas?

Outline Presentation

1. Data analysis methodology
2. Global results
3. USA/California results

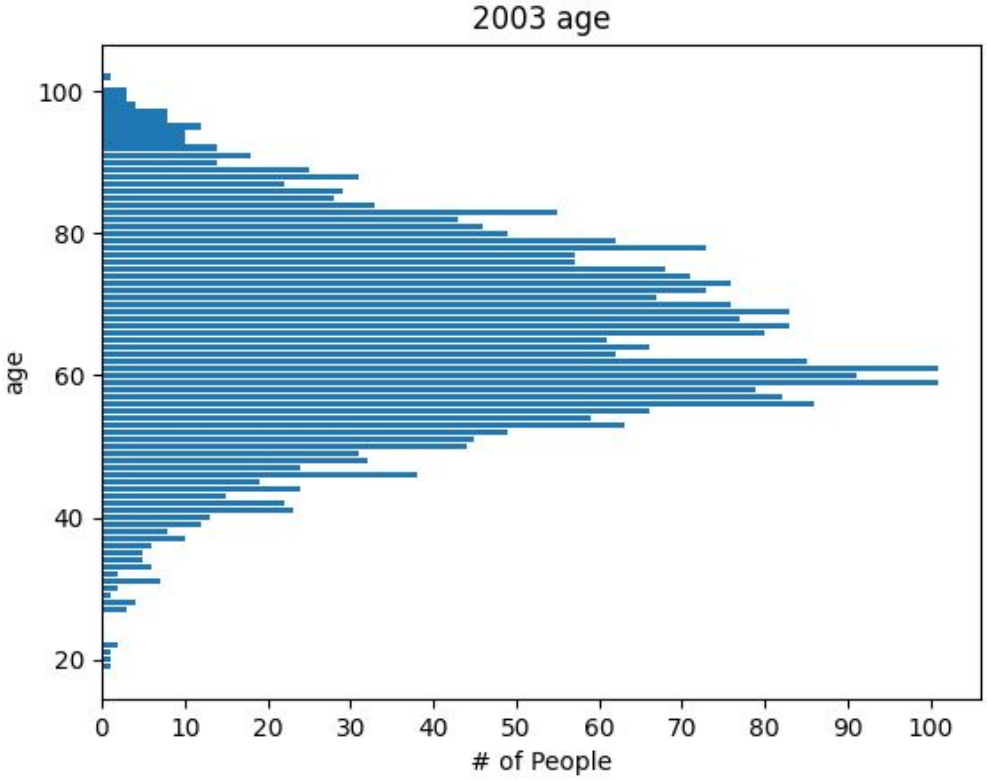
Datasets

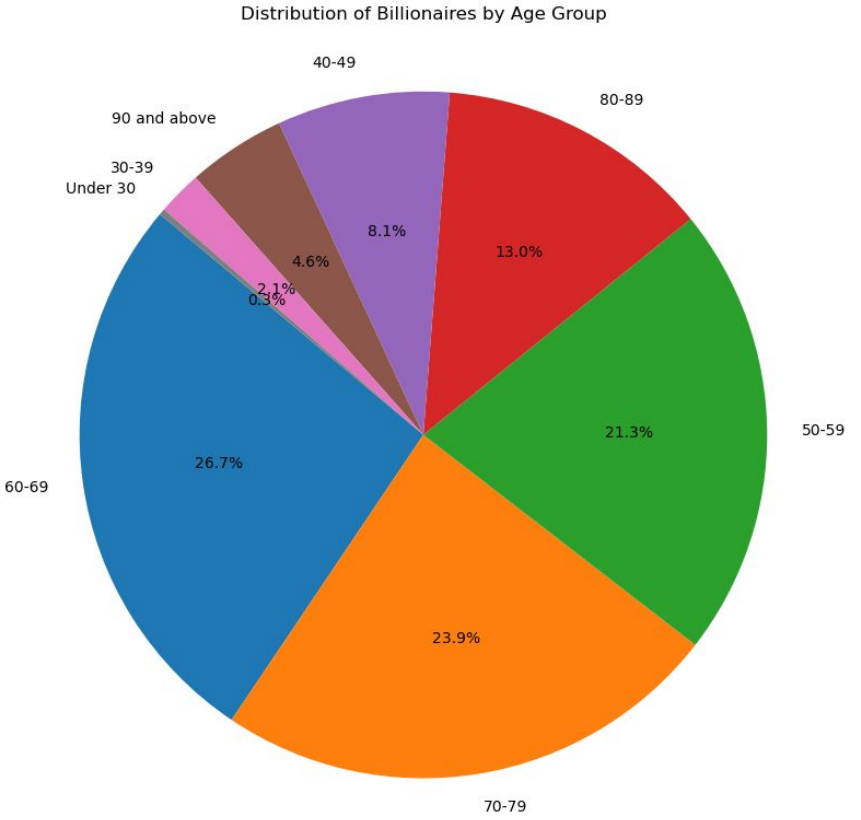
- Forbes: The World's Billionaires (2003-2023)
- Credit Suisse: Global Wealth Report (2021)

Coding Methodology

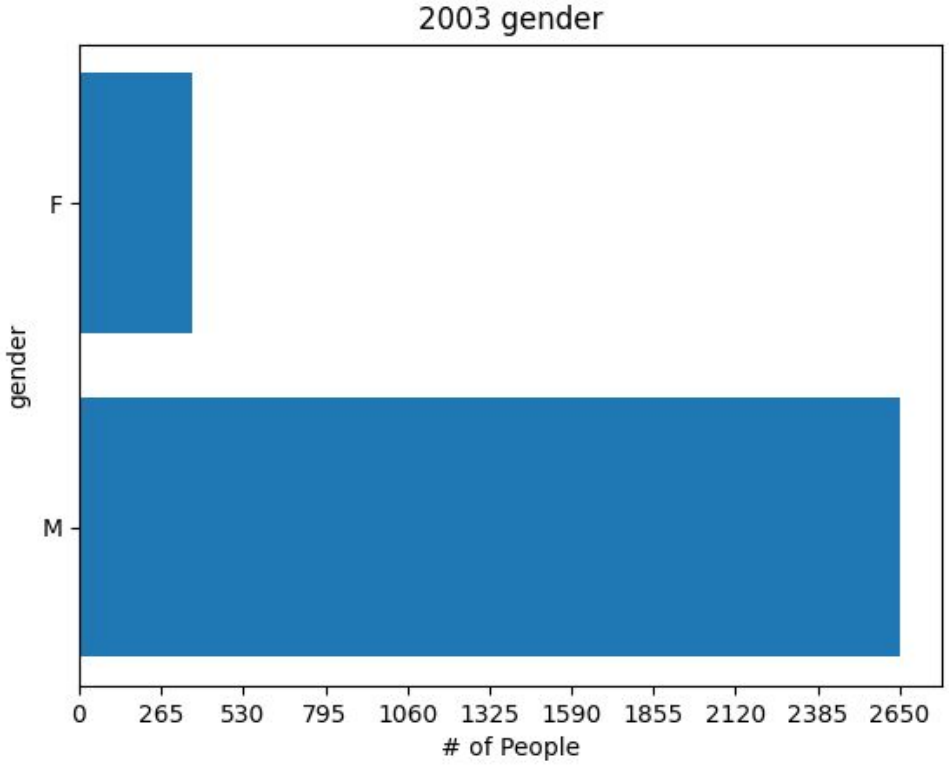
1. Dataset downloaded
   a. Forbes: The World's Billionaires (2003-2023)
   b. Credit Suisse: Global Wealth Report (2021)
2. Extracted and Parsed
   a. Extract Cols - country, state, gender, age, industry, source, and name
   b. Removed Cols - headquarters, title, timestamp, position, and many more
   c. Standardized values and removed broken data
3. Analyzed
   a. Built animated bar graphs, pie charts, heat maps

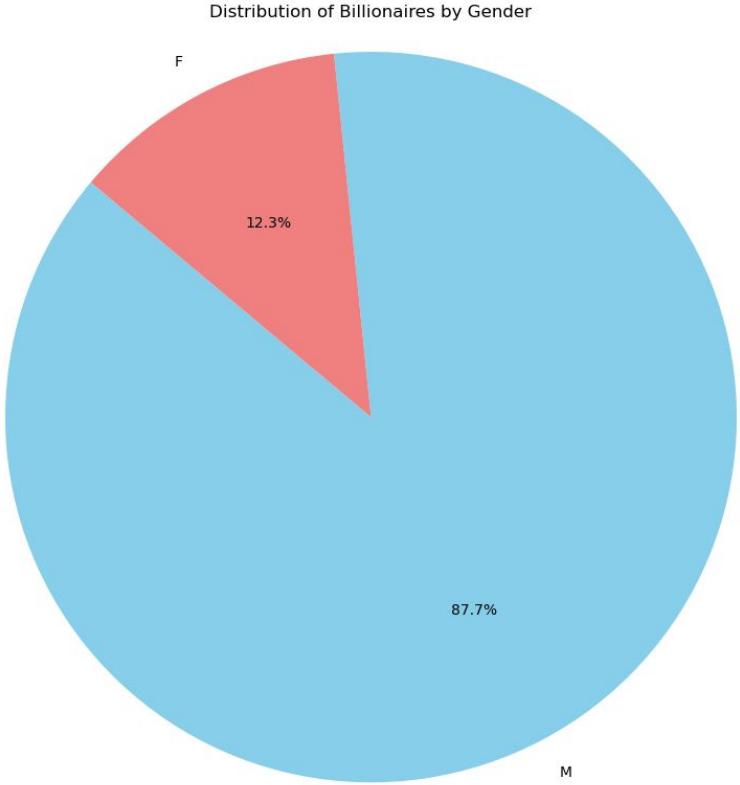
Results Age


2003 age
age
# of People
100
80
60
40
20
0
10
20
30
40
50
60
70
80
90
100

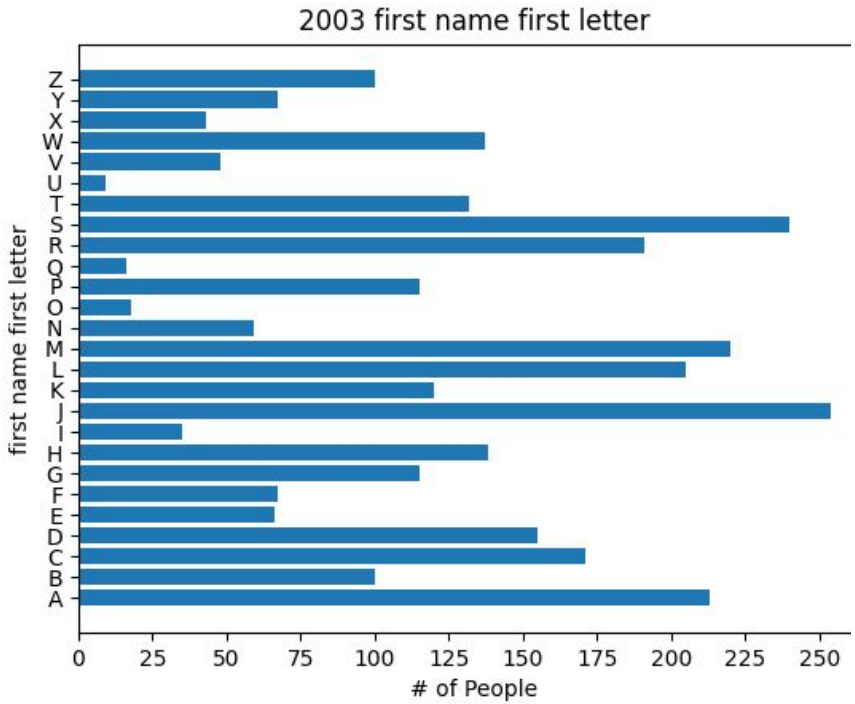

Distribution of Billionaires by Age Group
40-49
80-89
90 and above
30-39
Under 30
8.1%
13.0%
4.6%
2.1%
0.3%
21.3%
50-59
26.7%
60-69
23.9%
70-79

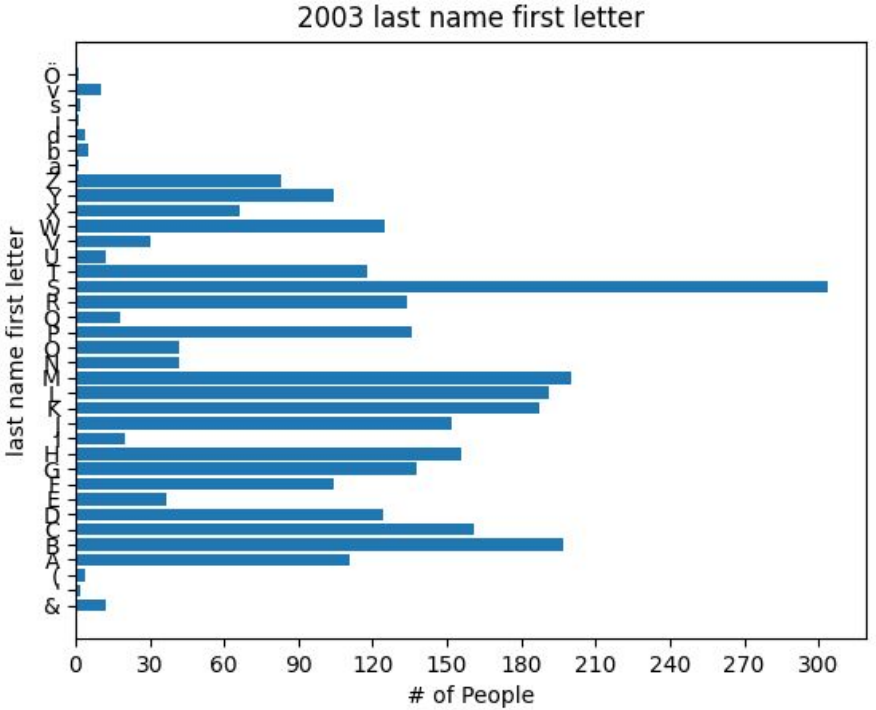
Results Gender



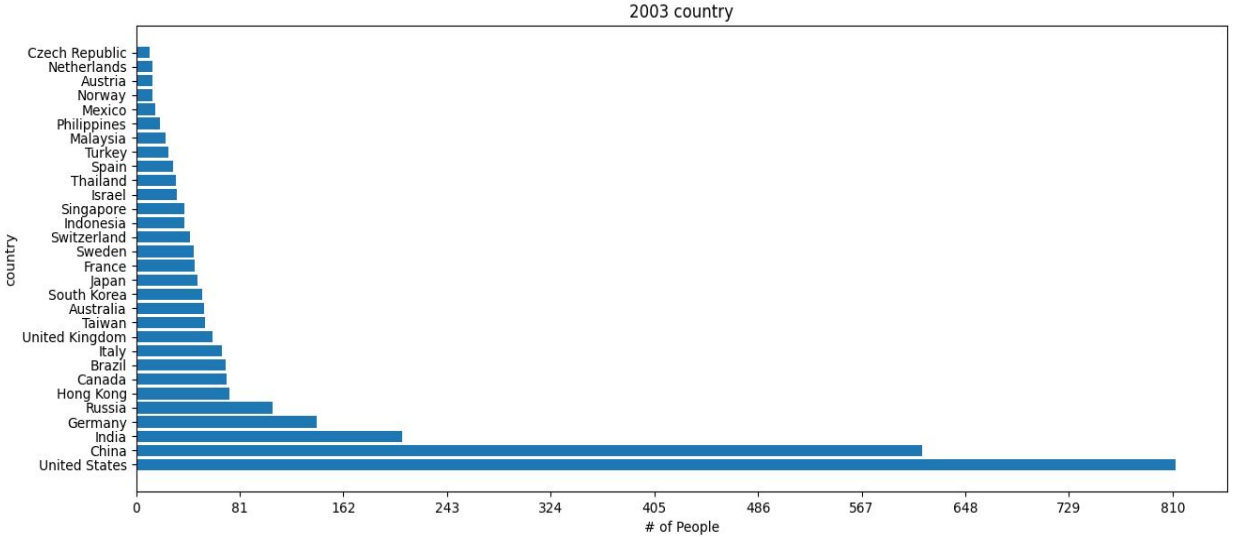


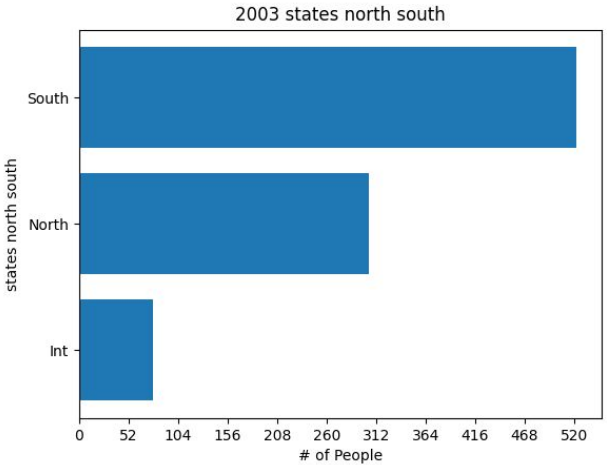
Results Name

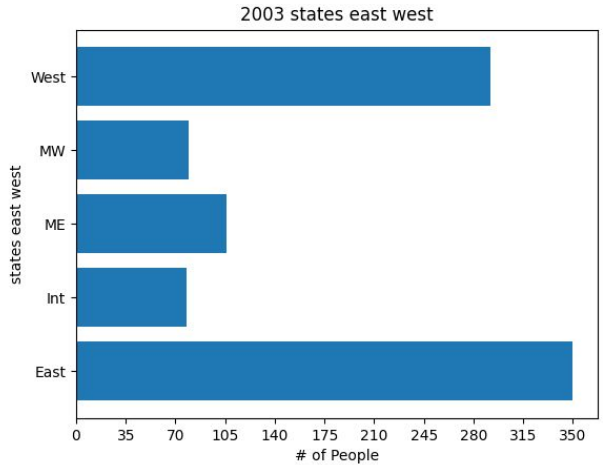




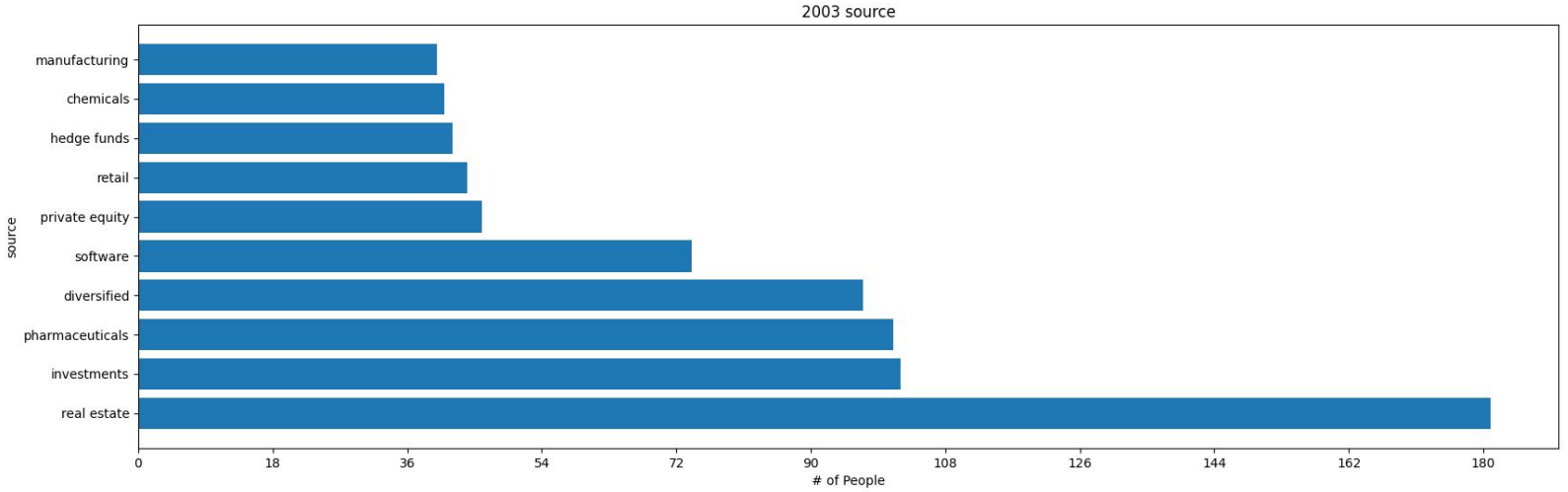
Distribution of billionaires across countries/regions

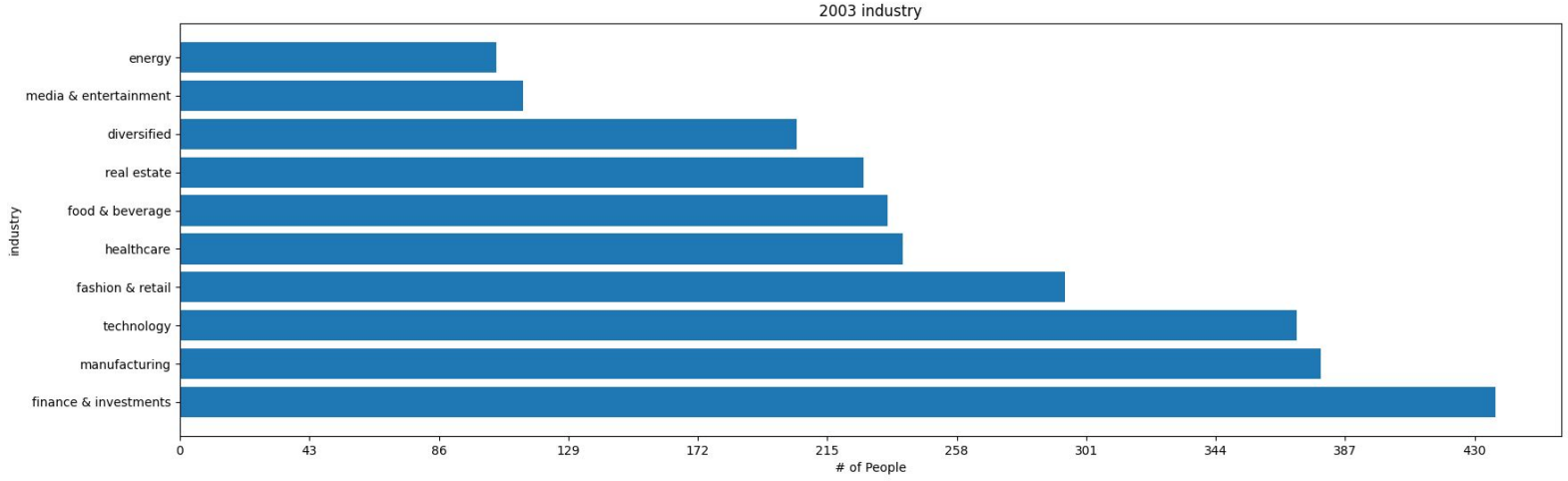




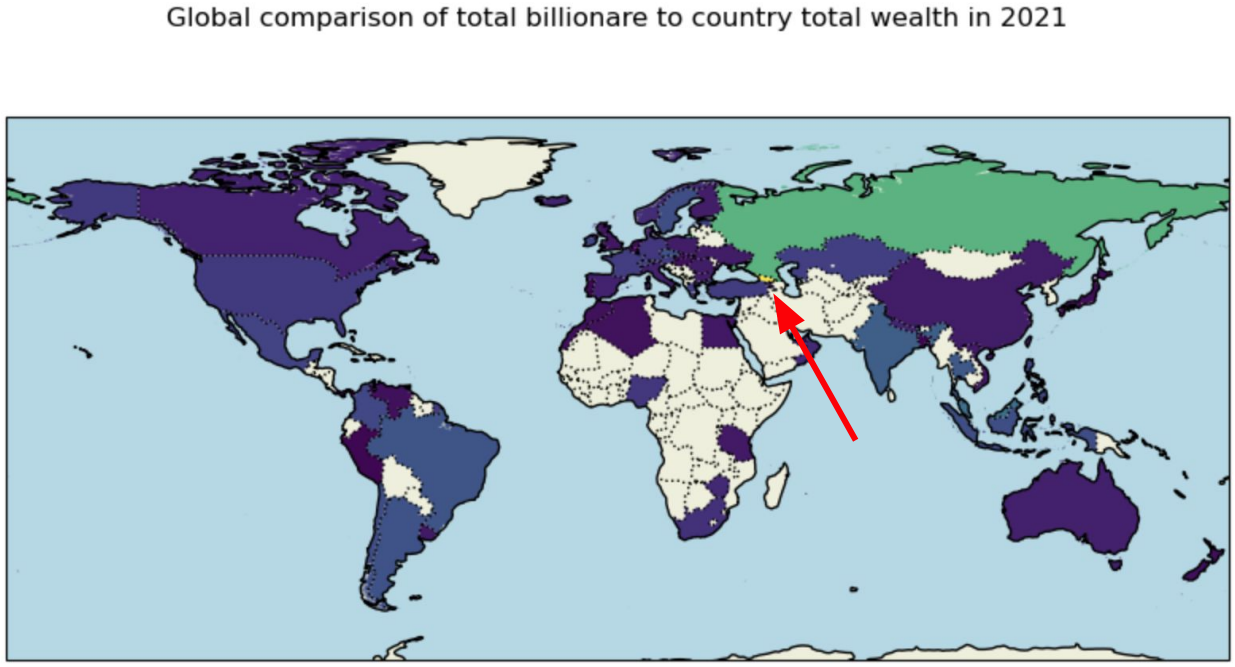


Billionaire income sources and industries

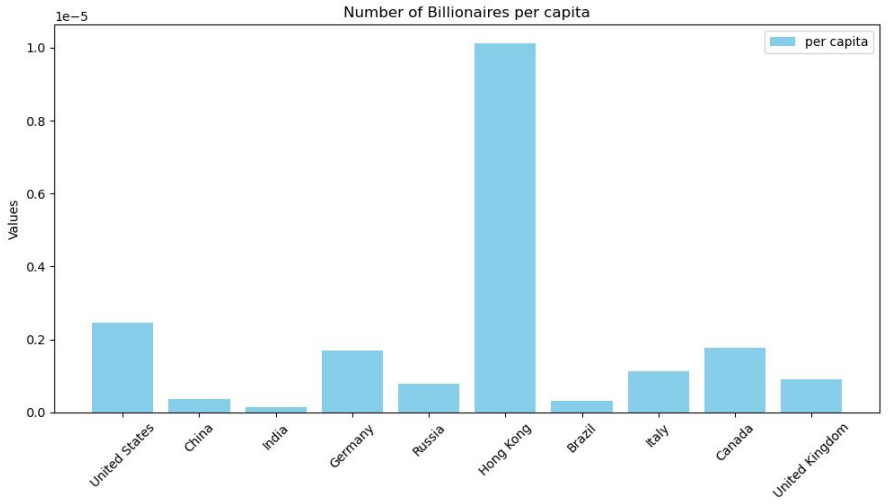


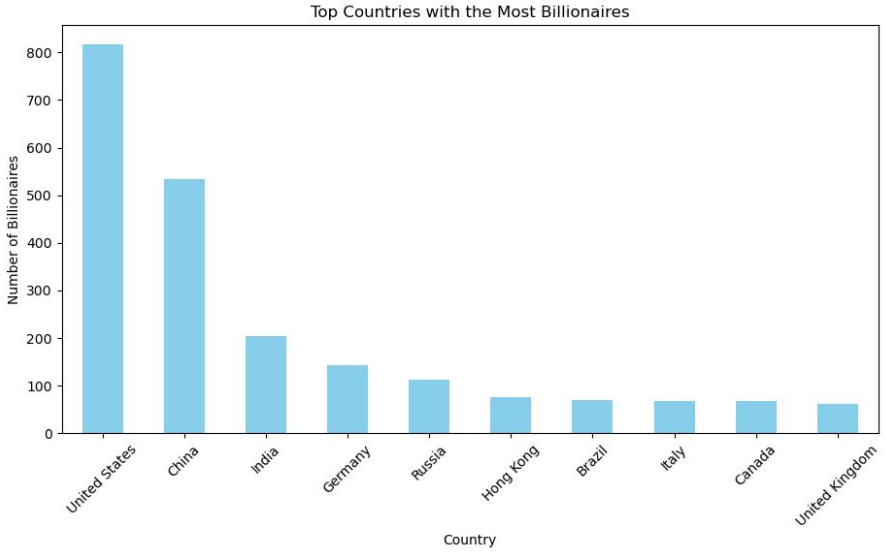


World View – Economy ratio map



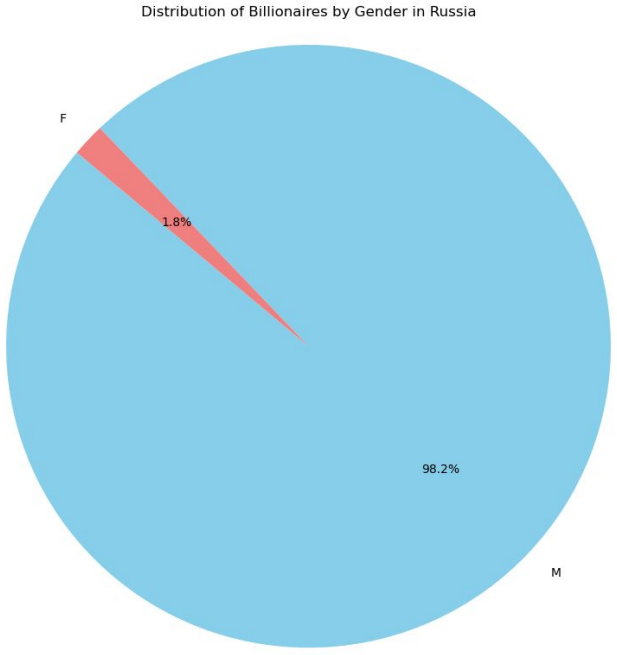
World View - Top 10 countries

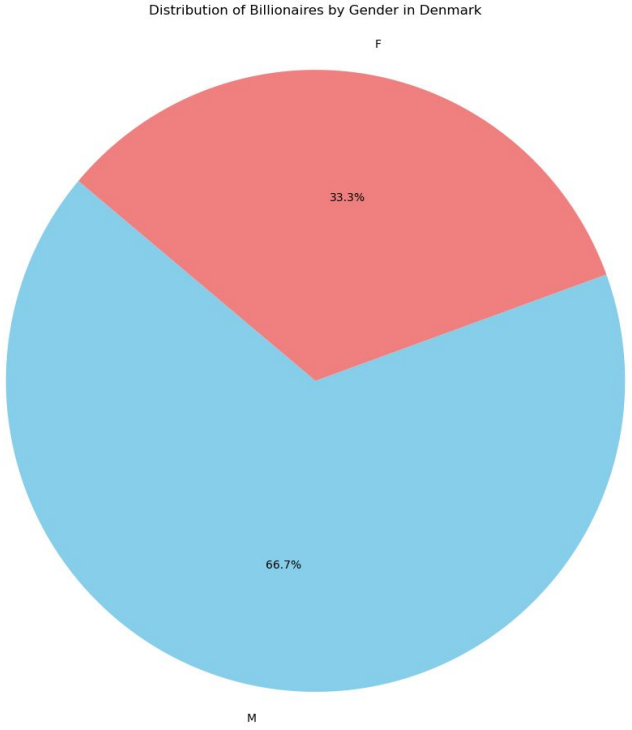




Country Specific Examples

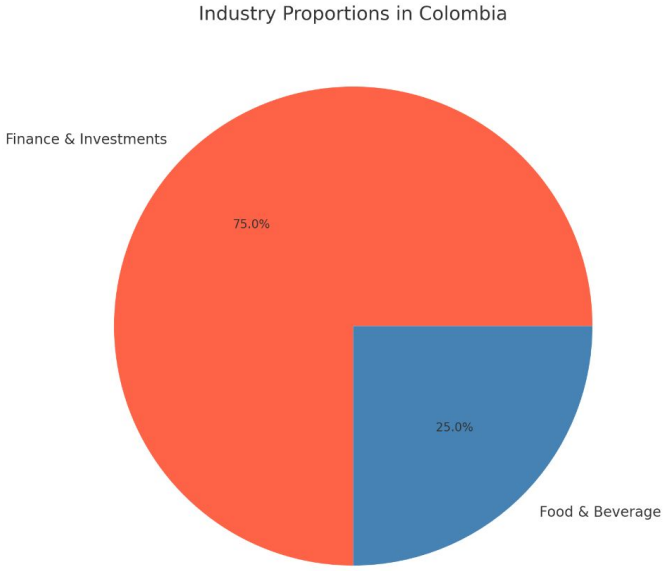
Country with high and low female billionaires rates

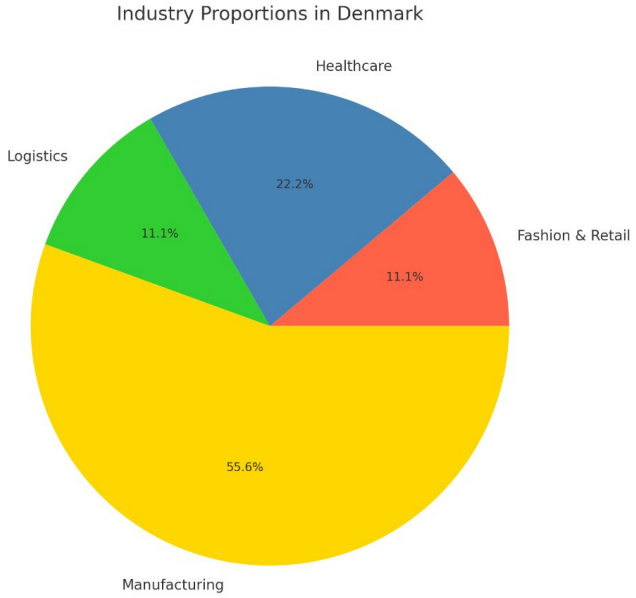




Country Specific Examples

Country with high proportion in one industry





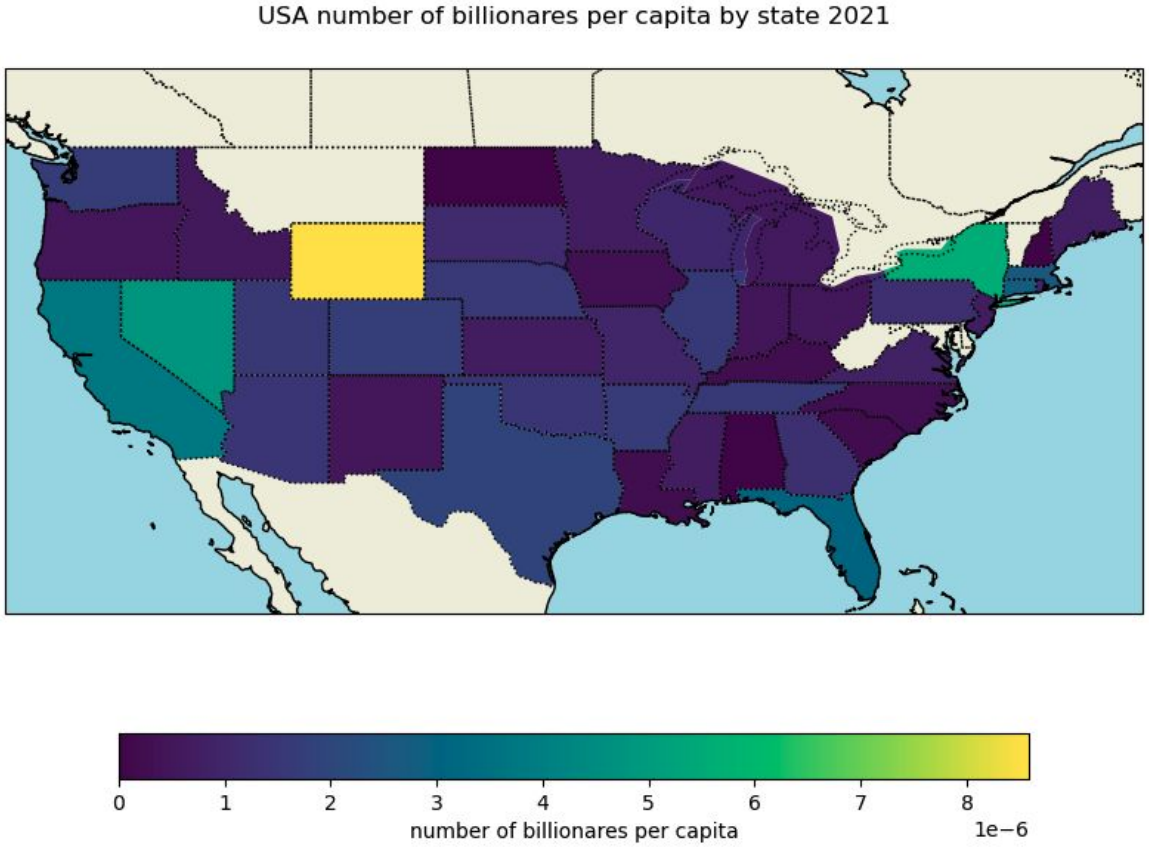
But what if....

What if it is too late for you to be born in the UK and study to be an investment banker?

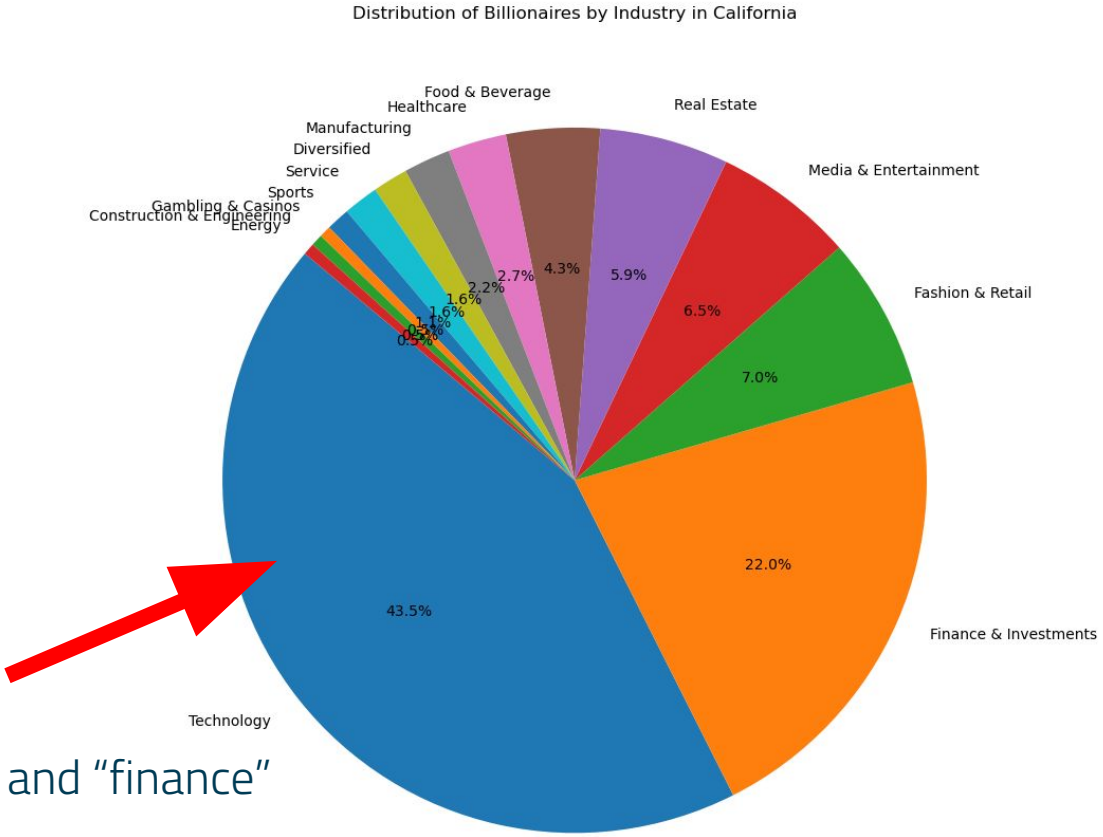
Maybe you're in the USA

Maybe in fact, you're an engineering student in **ECE 143 at UC San Diego.** What are your odds then?

USA Specific View

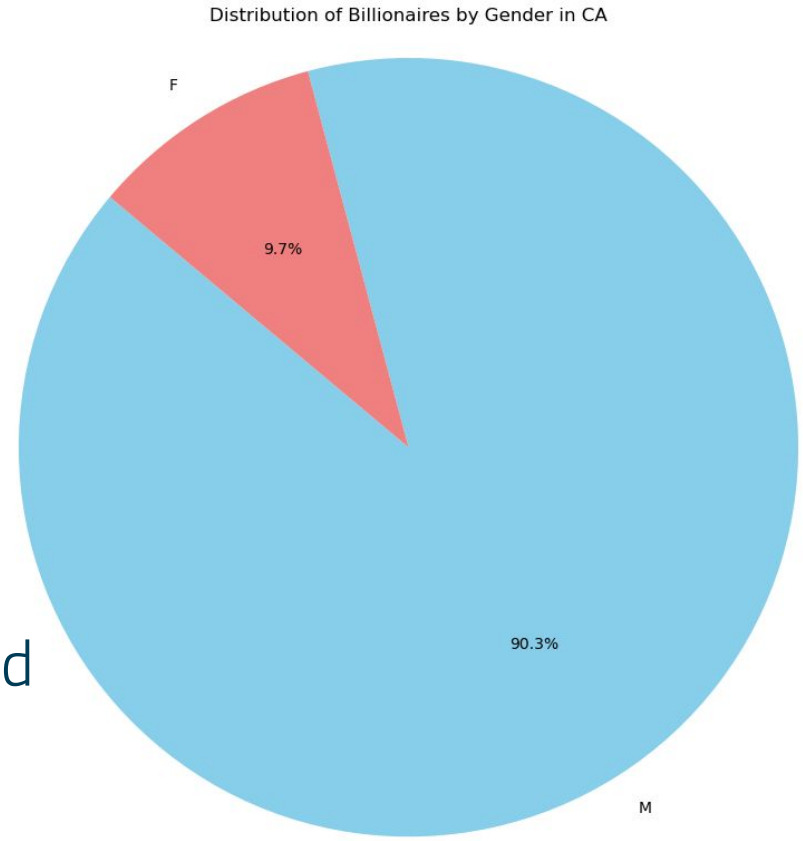


California Specific View



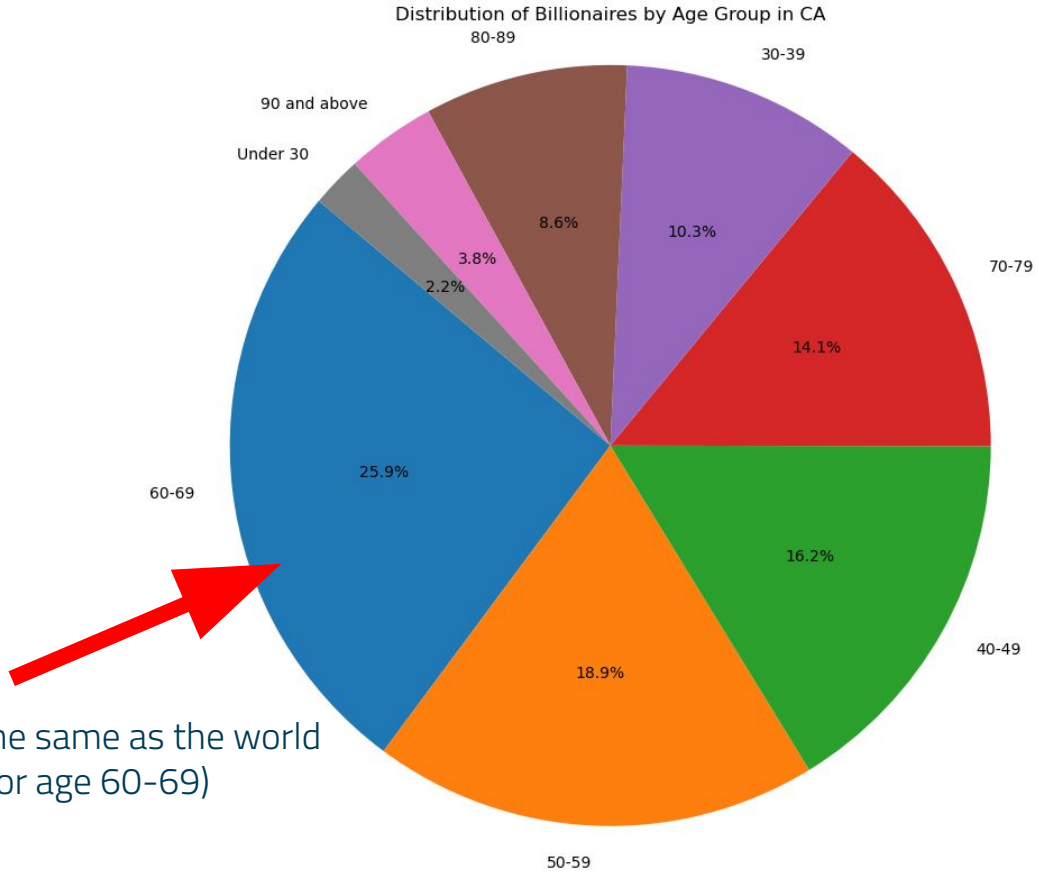
Mostly “tech” and “finance”

California Specific View



This is about the same as the world (world: 12.3%)

California Specific View



This is about the same as the world (world: 26.7% for age 60-69)

Conclusions

- Industry - technology and finance
- Source - Real Estate!
- Gender - Primarily Male
- Age - less likely before or after ages 50-79

Thank you!

And good luck on becoming a billionaire! (You'll need it)

It's a .0000345% chance

Some summary billionaire stats

Possible plots:

- industry distribution
- percent wealth in countries
- country distribution

THANKS!

Any questions?

You can find me at:

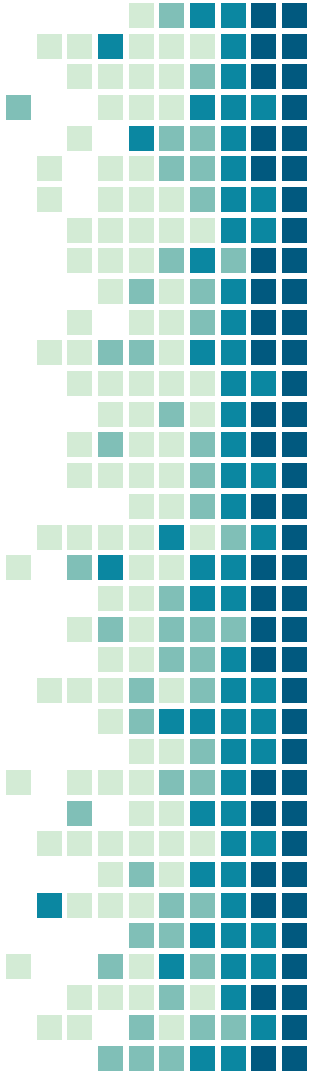
@username

user@mail.me

Country specific statistics

- Most prevalent industry of billionaires in major countries

USA tax/spending vs billionaires



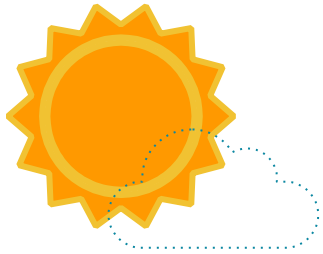
SlidesCarnival icons are editable shapes.

This means that you can:

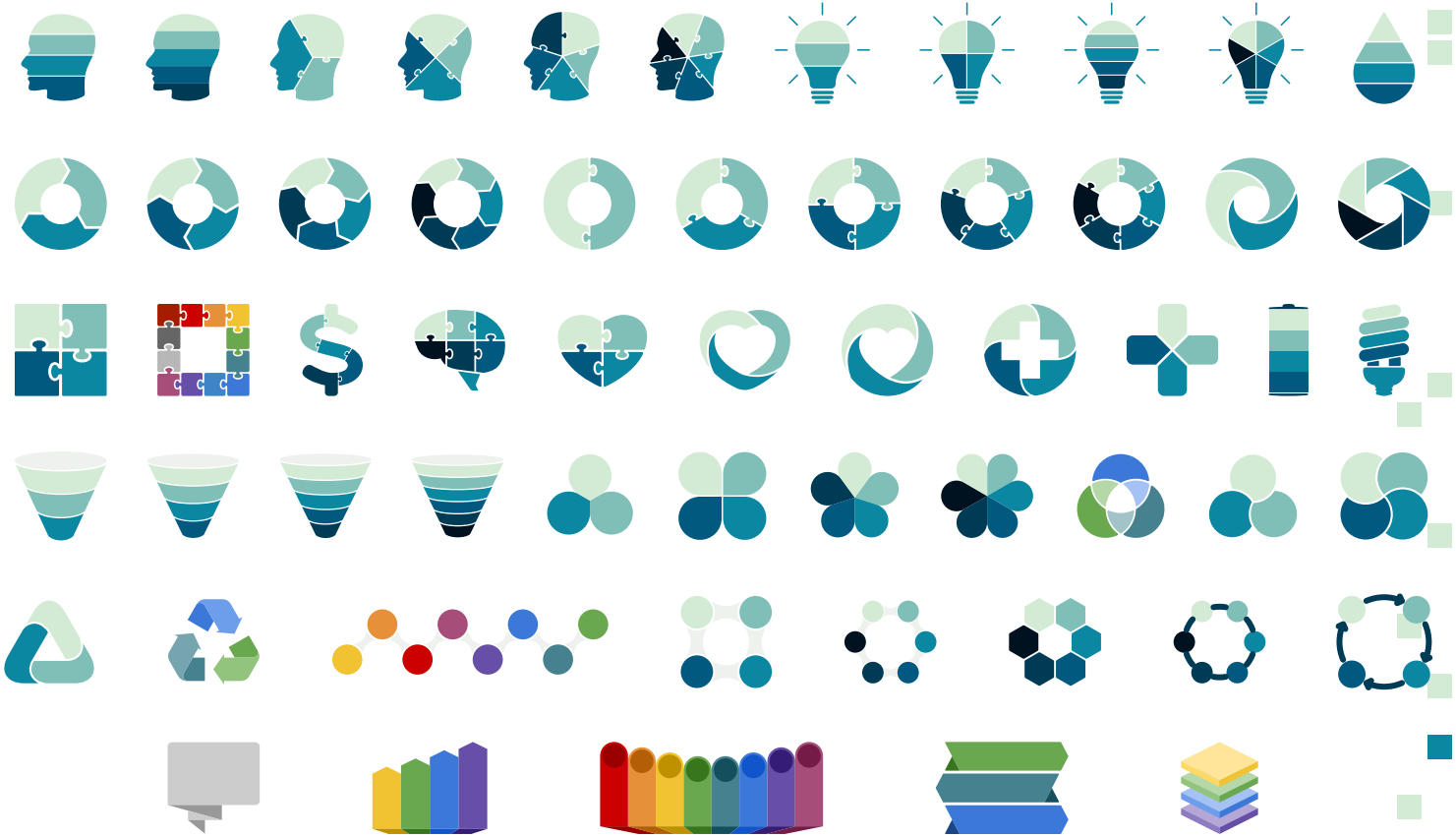
- Resize them without losing quality.
- Change fill color and opacity.
- Change line color, width and style.

Isn't that nice? :)

Examples:



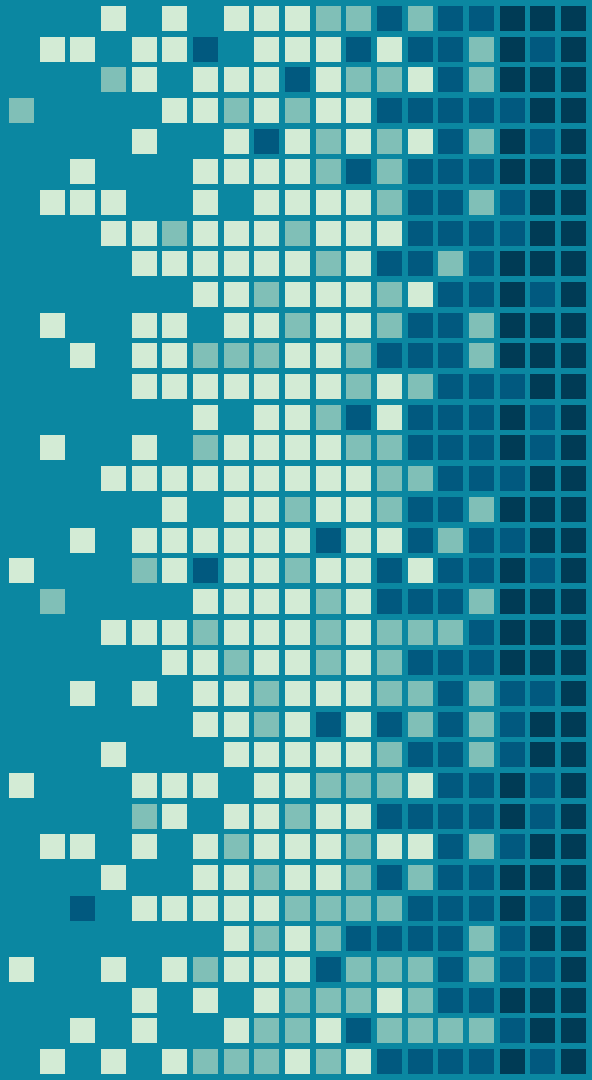
DIAGRAMS AND INFOGRAPHICS



Methodology - Analysis

- Use util functions to extract data by grouping (industry, state, etc)
- Perform grouping-specific analysis and visualization

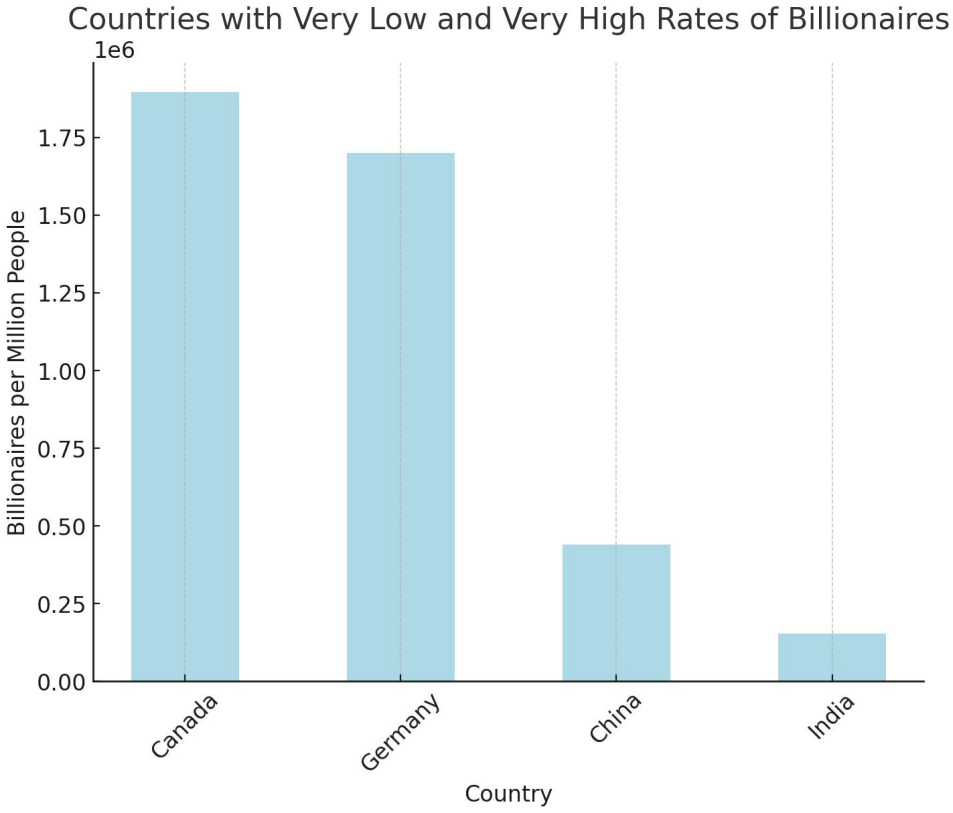
“Our goal of this project is to study the economic weight billionaires have in controlling the wealth of a country globally and how to increase your chances of becoming one.



Sad Reality

- However, we have to face a depressing fact
- While we are interested in becoming a billionaire, which we see has X% in the US…
- We see that the average person is much more likely to become…homeless
- Contrast homeless ratio to billionaire ratio, add in taxation data if possible

Country Specific Examples



Motivating Questions

1. What is the distribution of billionaires in the USA/World across different factors?
2. What factors (controllable & uncontrollable) whether determine whether an individual will become a billionaire?
3. How does this change in different areas (countries/states?)