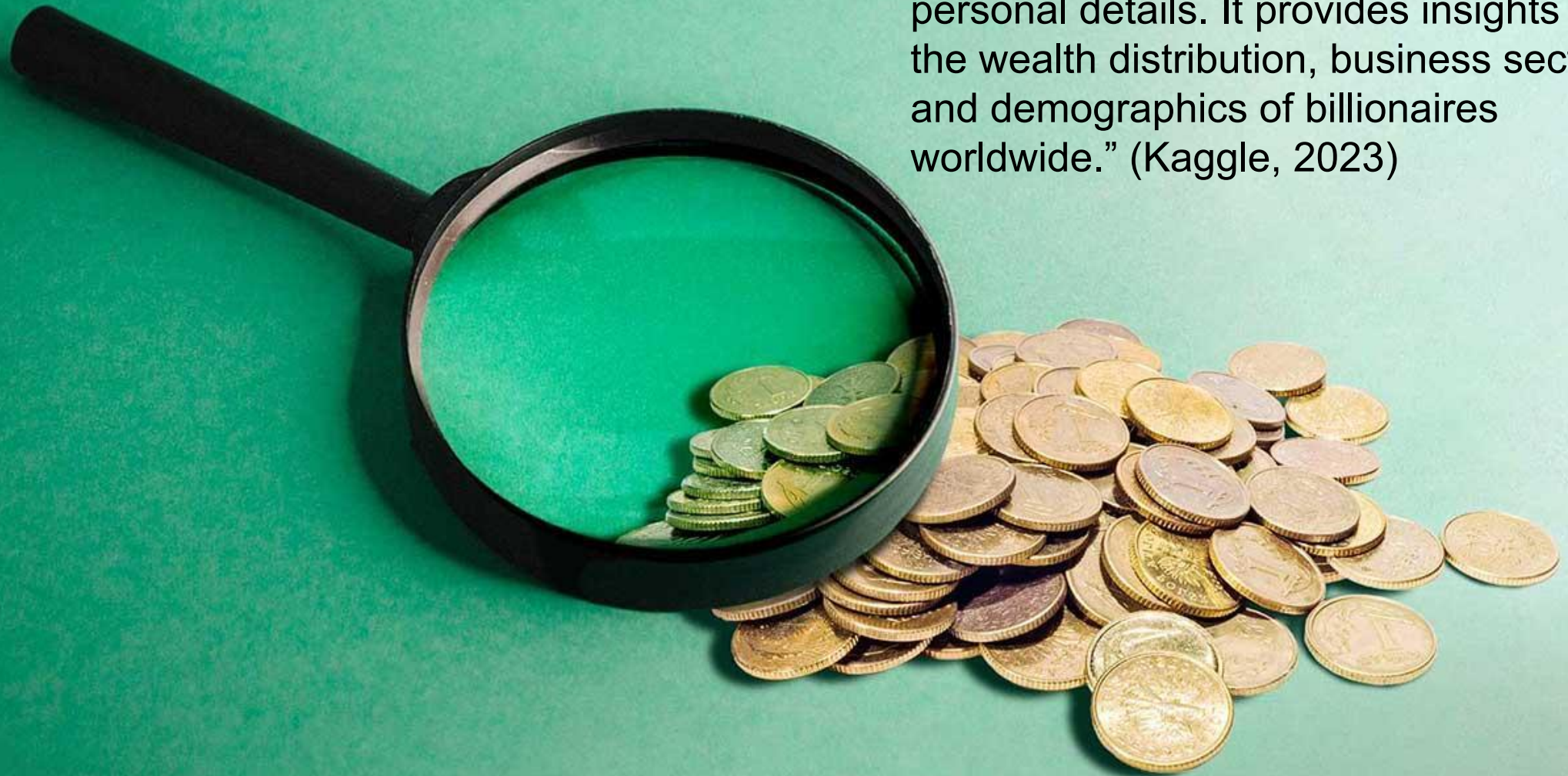# Billionaires Statistic Dataset

Group 1 – Aaron, Karel, Mor, Whitney

About

Our dataset contained "statistics on the world's billionaires, including information about their businesses, industries, and personal details. It provides insights into the wealth distribution, business sectors, and demographics of billionaires worldwide." (Kaggle, 2023)

Questions

1. Distribution
What is the distribution of billionaires by industry?

2. Age
Does age have an impact on net-worth? If so, How?

3. Nepotism
Does being a self-made or inherited billionaire affect net-worth?

4. GDP
What is the geographical distribution of billionaires and how does that compare to per capita GDP?
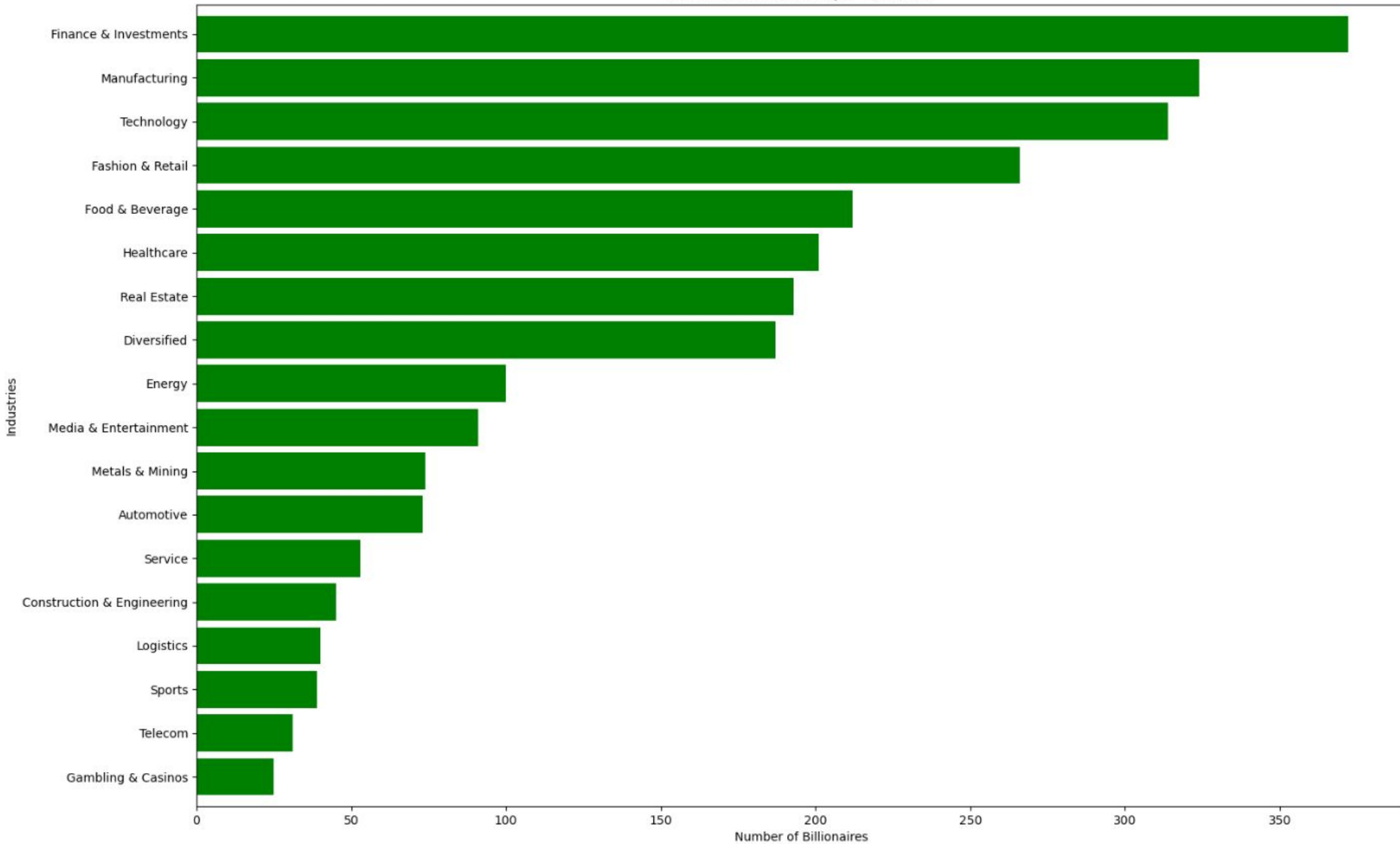
Top 5 Ranking Billionaires

rank	final Worth	category	person Name	age
1	211000	Fashion & Retail	Bernard Arnault & family	74
2	180000	Automotive	Elon Musk	51
3	114000	Technology	Jeff Bezos	59
4	107000	Technology	Larry Ellison	78
5	106000	Finance & Investments	Warren Buffett	92

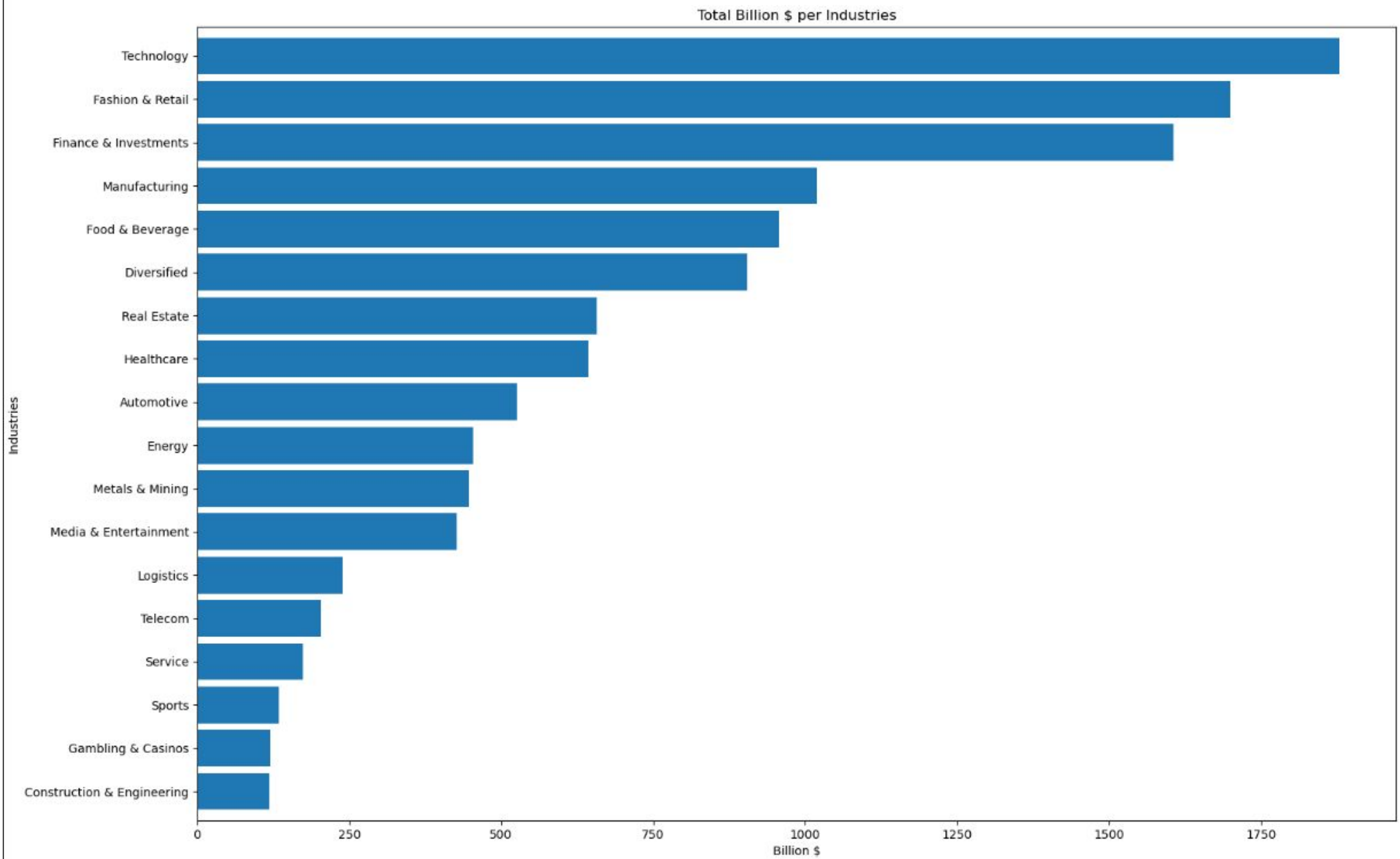# Distribution

What is the distribution of billionaires by industry?

Number of Billionaires per Industries

Industries	Number of Billionaires

Finance & Investments
Manufacturing
Technology
Fashion & Retail
Food & Beverage
Healthcare
Real Estate
Diversified
Energy
Media & Entertainment
Metals & Mining
Automotive
Service
Construction & Engineering
Logistics
Sports
Telecom
Gambling & Casinos

Total Billion $ per Industries
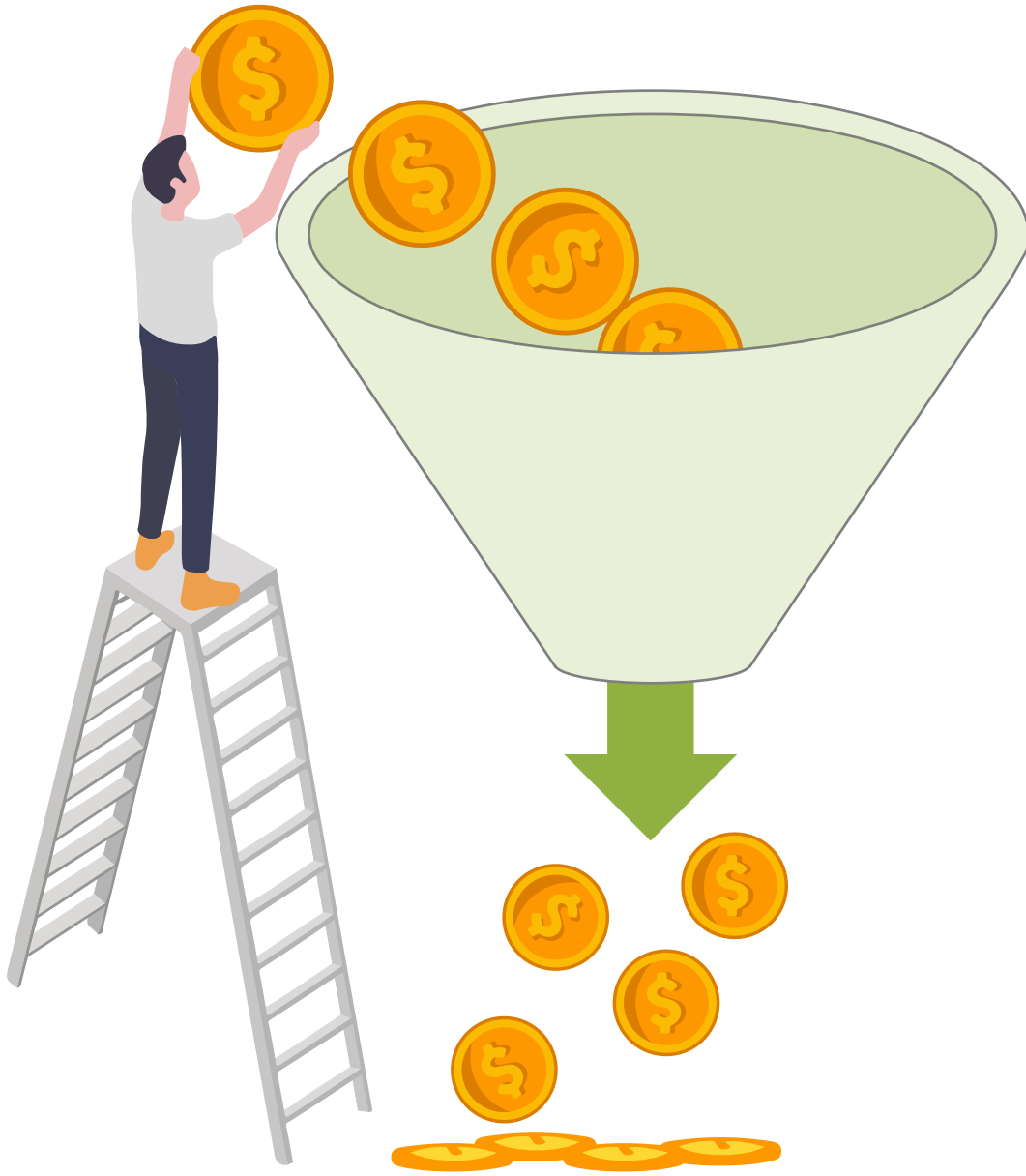
Findings

- There are more billionaires in the finance and investments industry then all other industries.

- The least common industry are sports, telecom and gambling.

- The industry with the highest revenue is technology, although the number of billionaires in this industry is the third on the list (after finance and manufacturing).

- Healthcare and Real Estate industry have the same number of billionaires.

Final Worth in Top four Industries

Technology
The <u>lower</u> quartile: 1.5
The <u>upper</u> quartile: 4.5
The <u>interquartile range</u>: 3.0
The <u>median</u>: 2.2
Values <u>below</u> -3.0 could be outliers
Values <u>above</u> 9.0 could be outliers

Finance & Investments
The <u>lower</u> quartile: 1.5
The <u>upper</u> quartile: 4.6
The <u>interquartile range</u>: 3.1
The <u>median</u>: 2.6
Values <u>below</u> -3.1 could be outliers
Values <u>above</u> 9.3 could be outliers

Fashion & Retail
The <u>lower</u> quartile: 1.6
The <u>upper</u> quartile: 4.8
The <u>interquartile range</u>: 3.2
The <u>median</u>: 2.5
Values <u>below</u> -3.2 could be outliers
Values <u>above</u> 9.6 could be outliers

Manufacturing
The <u>lower</u> quartile: 1.3
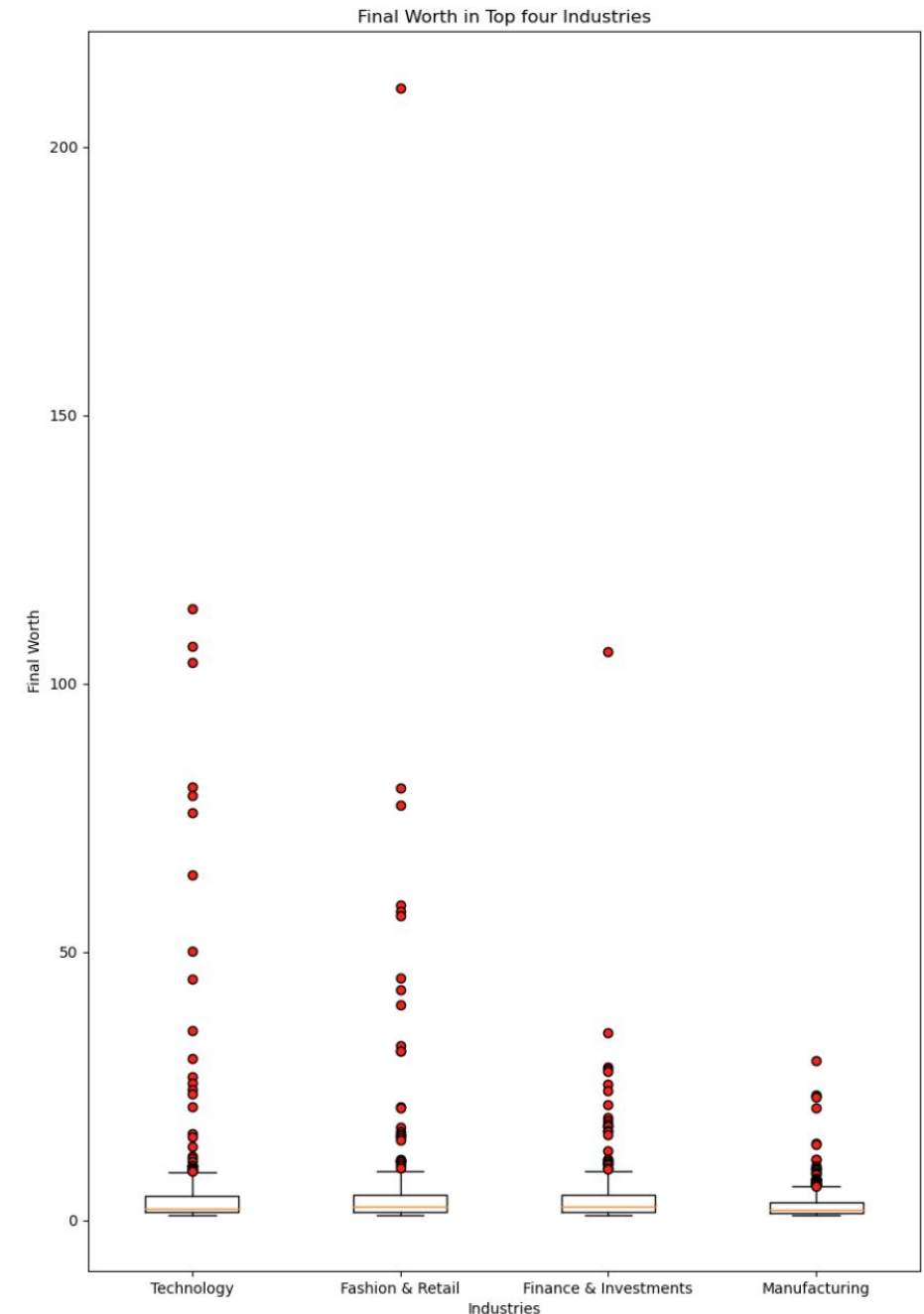The <u>upper</u> quartile: 3.3
The <u>interquartile range</u>: 2
The <u>median</u>: 2
Values <u>below</u> -1.7 could be outliers
Values <u>above</u> 6.35 could be outliers

In all four industries there are many outliers points.

Final Worth in Top four Industries

Top 5 on Selected Industries

finalWorth	category	personName	age	country	city	source
114.0	Technology	Jeff Bezos	59.0	United States	Medina	Amazon
107.0	Technology	Larry Ellison	78.0	United States	Lanai	Oracle
104.0	Technology	Bill Gates	67.0	United States	Medina	Microsoft
80.7	Technology	Steve Ballmer	67.0	United States	Hunts Point	Microsoft
79.2	Technology	Larry Page	50.0	United States	Palo Alto	Google

| finalWorth	category	personName	age	country	city	source
106.0	Finance & Investments	Warren Buffett	92.0	United States	Omaha	Berkshire Hathaway
35.0	Finance & Investments	Ken Griffin	54.0	United States	Miami	Hedge funds
28.5	Finance & Investments	Jeff Yass	64.0	United States	Haverford	Trading, investments
28.1	Finance & Investments	Jim Simons	84.0	United States	East Setauket	Hedge funds
27.8	Finance & Investments	Stephen Schwarzman	76.0	United States	New York	Investments

finalWorth	category	personName	age	country	city	source
211.0	Fashion & Retail	Bernard Arnault & family	74.0	France	Paris	LVMH
80.5	Fashion & Retail	Francoise Bettencourt Meyers & family	69.0	France	Paris	L'Oréal
77.3	Fashion & Retail	Amancio Ortega	87.0	Spain	La Coruna	Zara
58.8	Fashion & Retail	Jim Walton	74.0	United States	Bentonville	Walmart
57.6	Fashion & Retail	Rob Walton & family	78.0	United States	Bentonville	Walmart

finalWorth	category	personName	age	country	city	source
29.7	Manufacturing	Reinhold Wuerth & family	87.0	Germany	Kuenzelsau	Fasteners
23.4	Manufacturing	He Xiangjian & family	80.0	China	Foshan	Home appliances
23.1	Manufacturing	Michael Hartono	83.0	Indonesia	Kudus	Banking, tobacco
22.9	Manufacturing	James Ratcliffe	70.0	United Kingdom	London	Chemicals
21.0	Manufacturing	Takemitsu Takizaki	77.0	Japan	Osaka	Sensors

Age Range

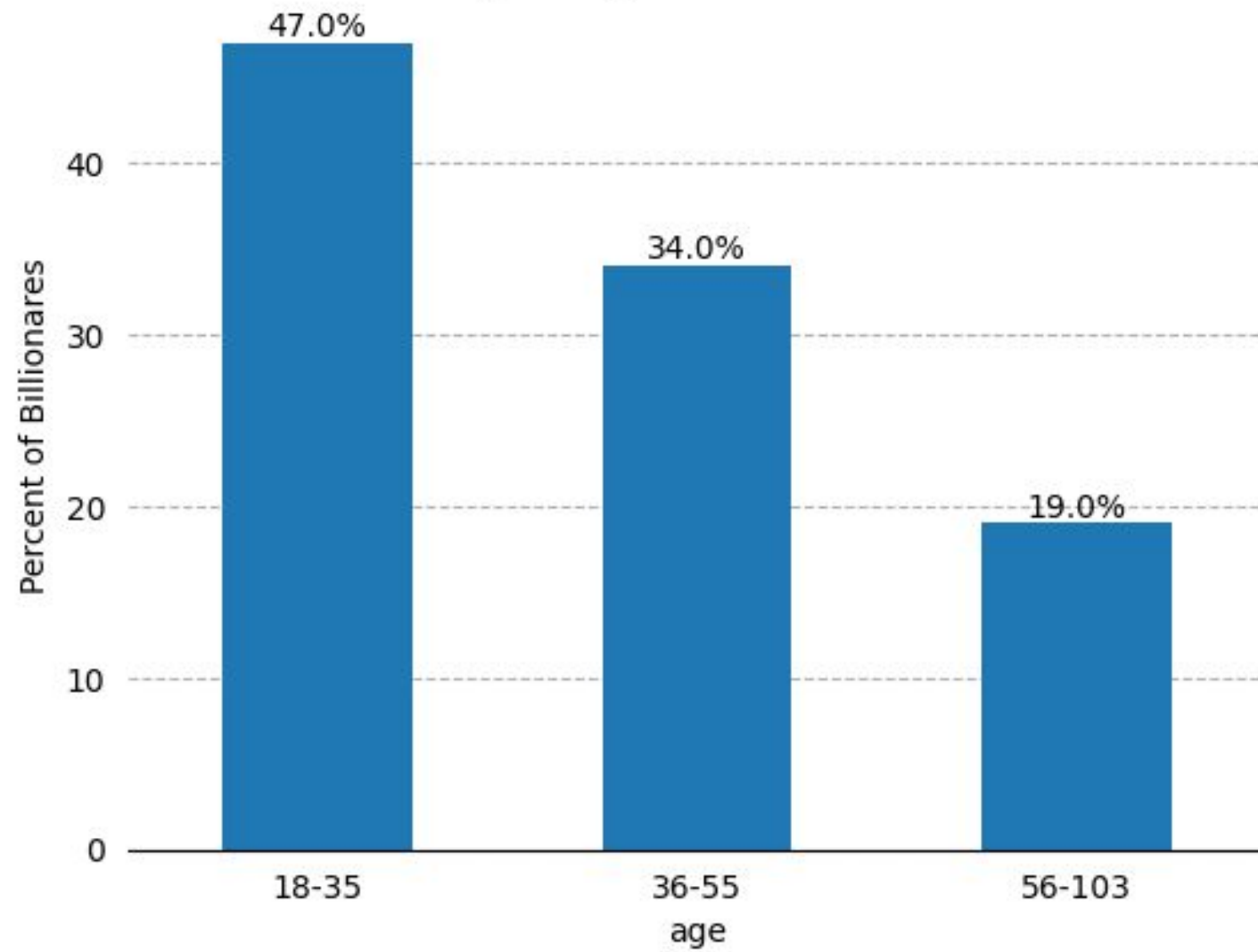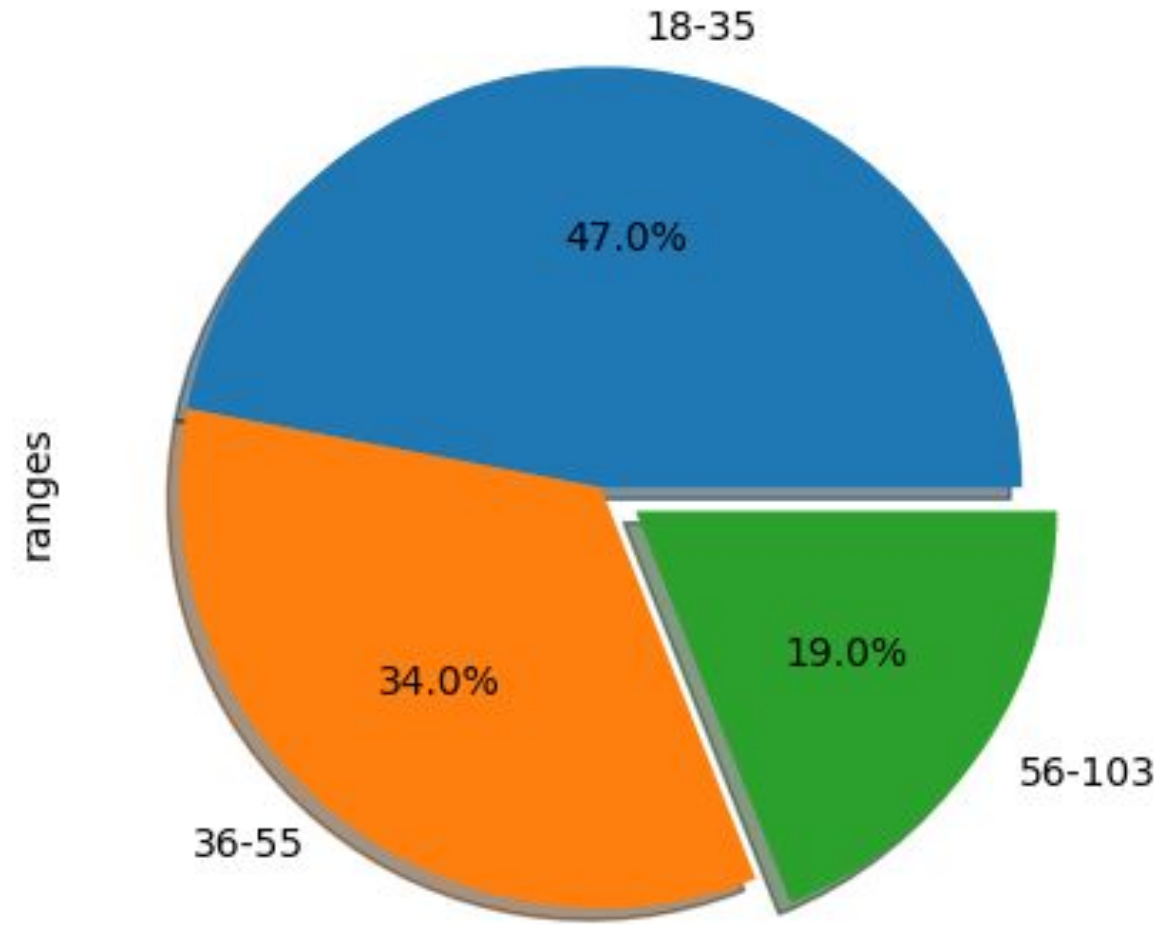**Does age have an impact on net-worth? If so, How?**
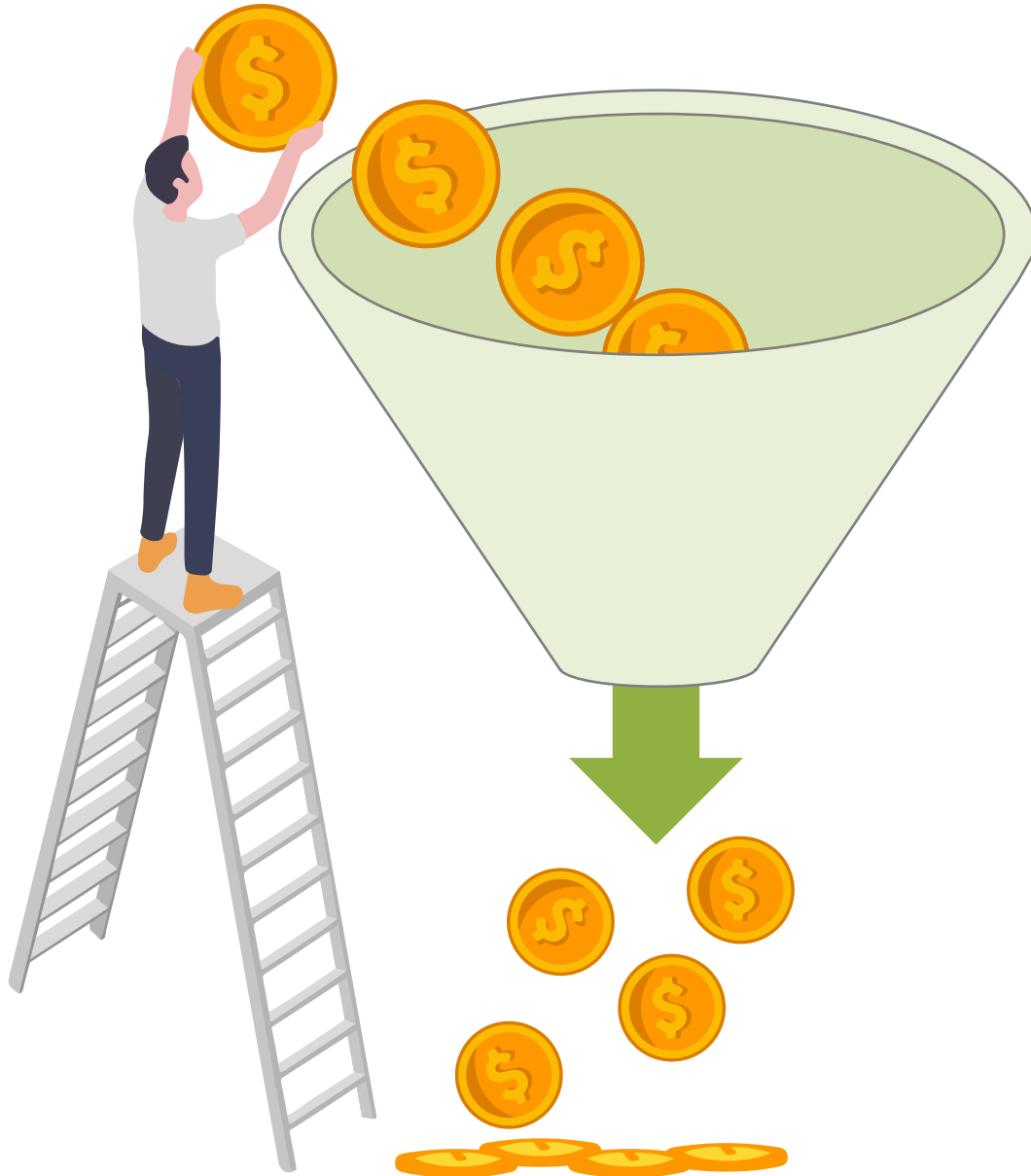
Findings

The Data shows the following:

- **47%** of the billionaires are between the ages of **18-35**
- **34%** of billionaires are between the ages of **36-55**
- **19%** of billionaires are between the ages of **56-103**

Age Ranges of Billionares

ranges

18-35 — 47.0%
36-55 — 34.0%
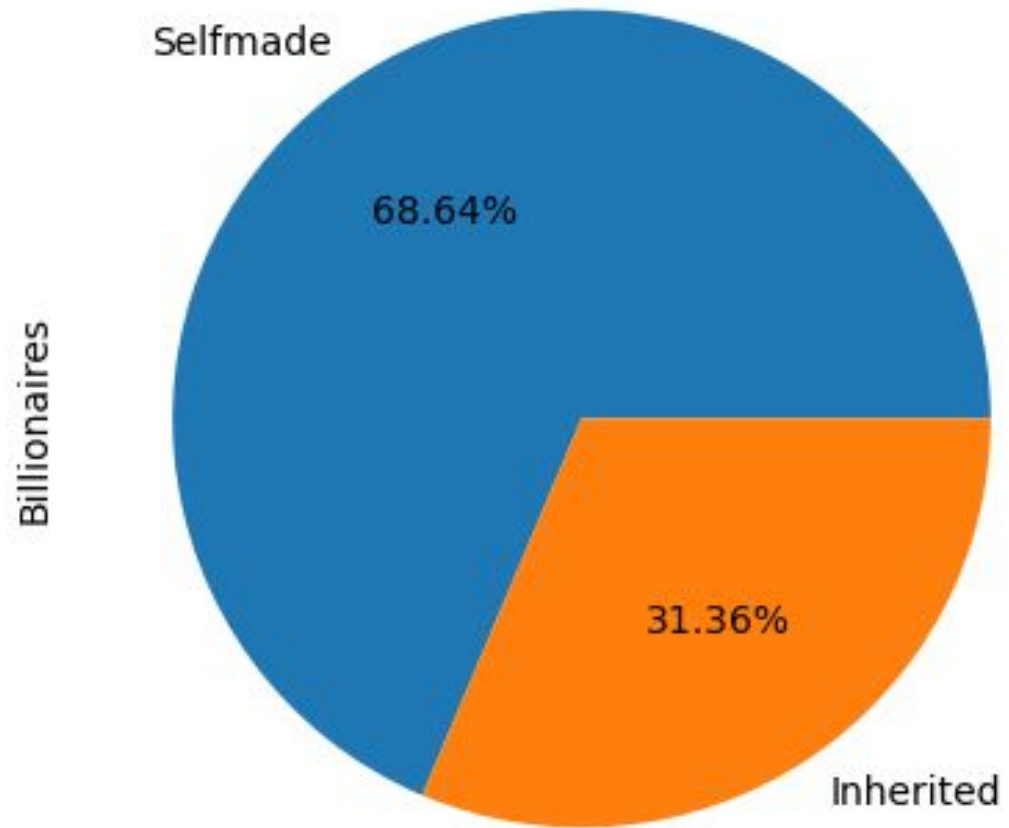56-103 — 19.0%

Nepotism

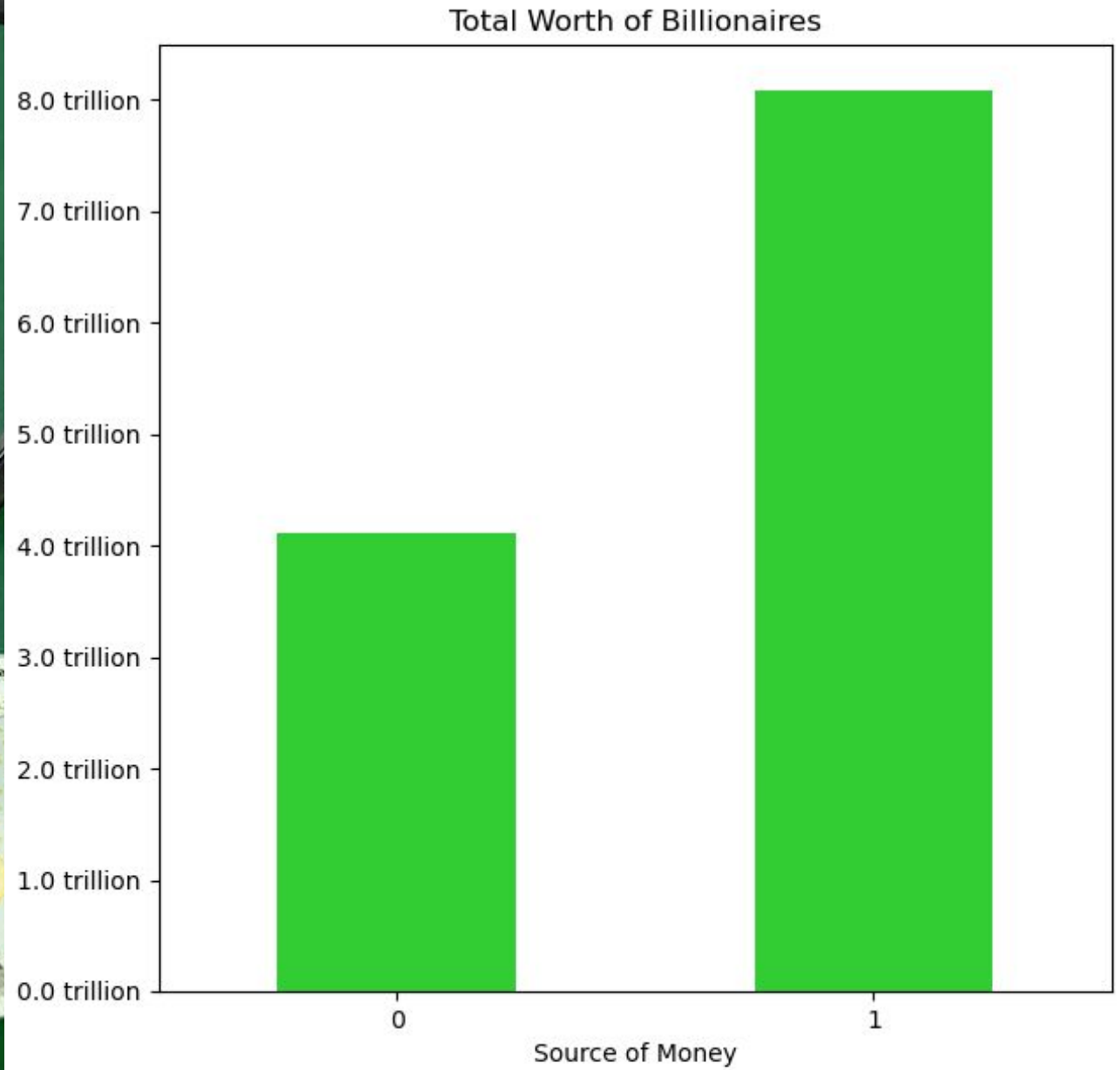**Does being a self-made or inherited billionaire affect net-worth?**
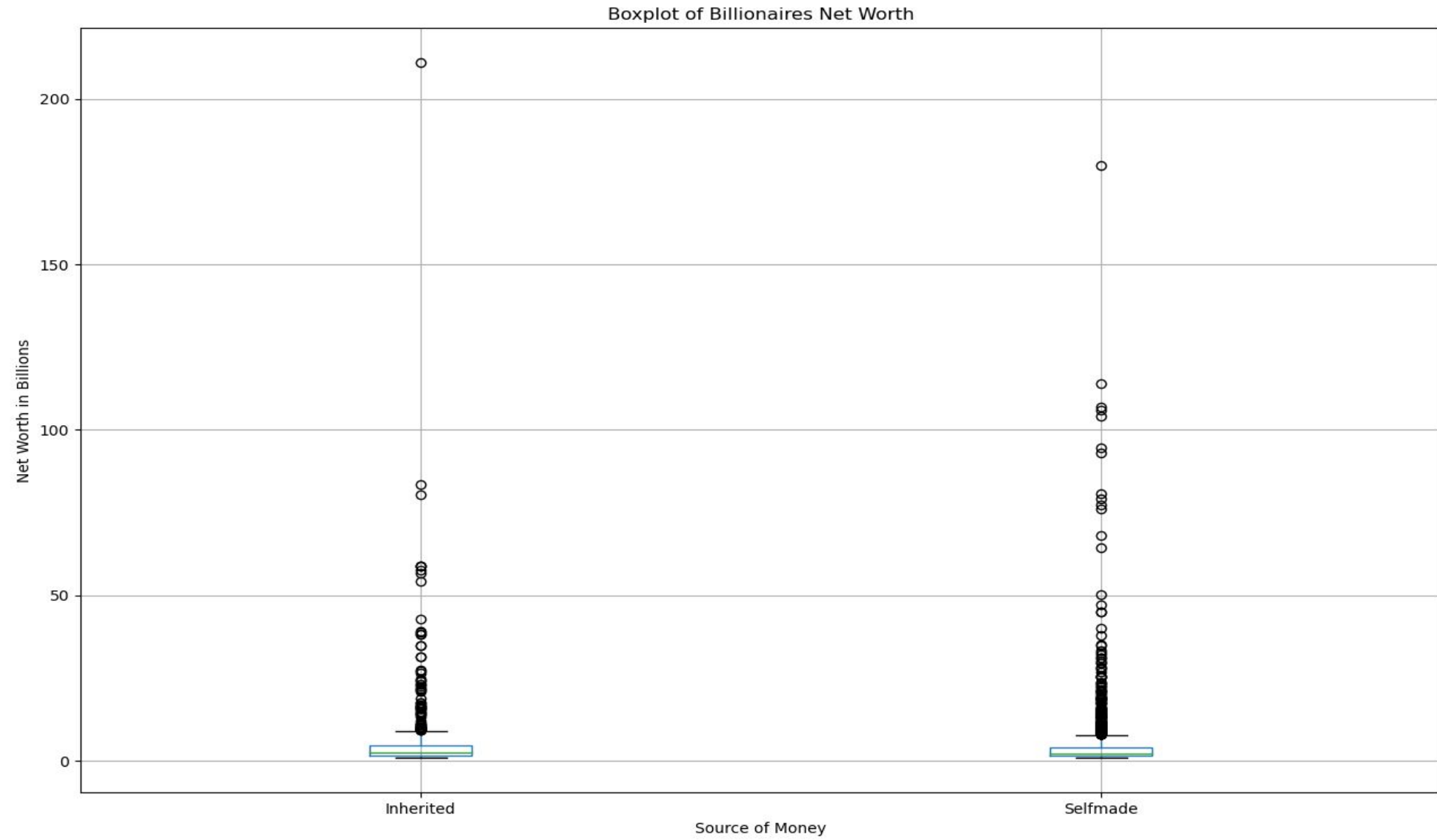
Self-Made Billionaires: 1812

Inherited Wealth: 828

Sum of Inherited : $4115.5 trillion

Sum of Self-Made: $8091.3 trillion

Total Worth of Billionaires

Source of Money

Boxplot grouped by selfMade

Boxplot of Billionaires Net Worth

The the **median** of selfmade worth is: **$2.2 billion**

The **average** of selfmade worth is **$4.47 billion**

Values above **$8.0 billion** could be outliers

There are **174 outliers** who are selfmade billionaires

The the median of inherited worth is: **$2.6 billion**

The average of inherited worth is **$4.97 billion**

Values above **$9.1625 billion** could be outliers

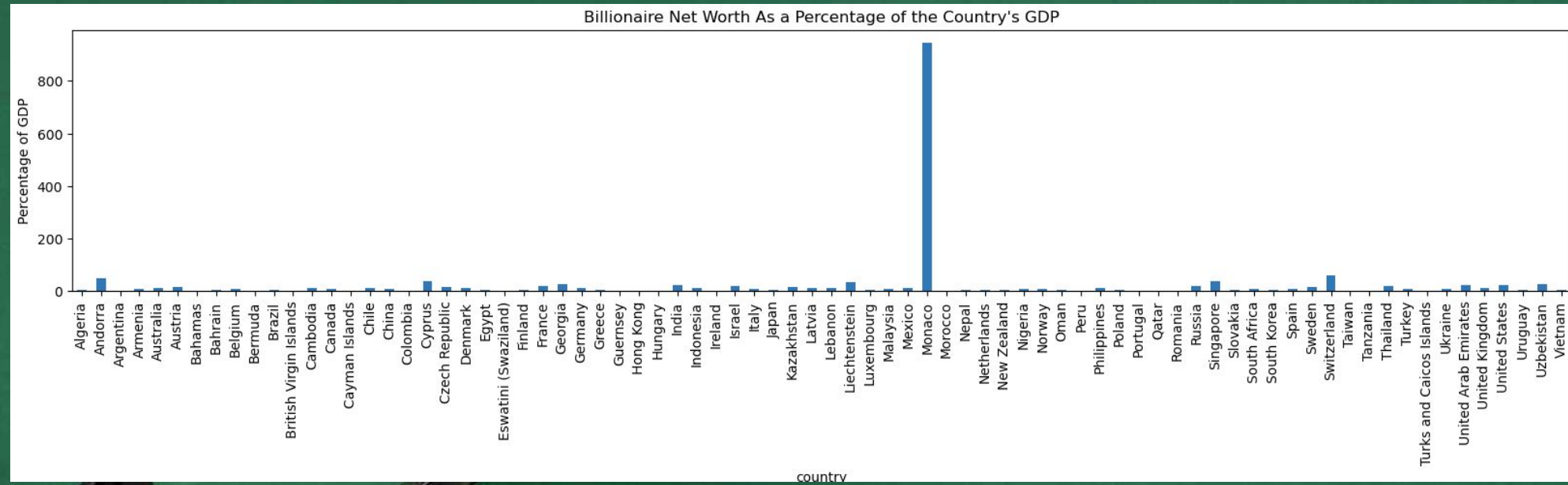There are **72 outliers** with inherited wealth
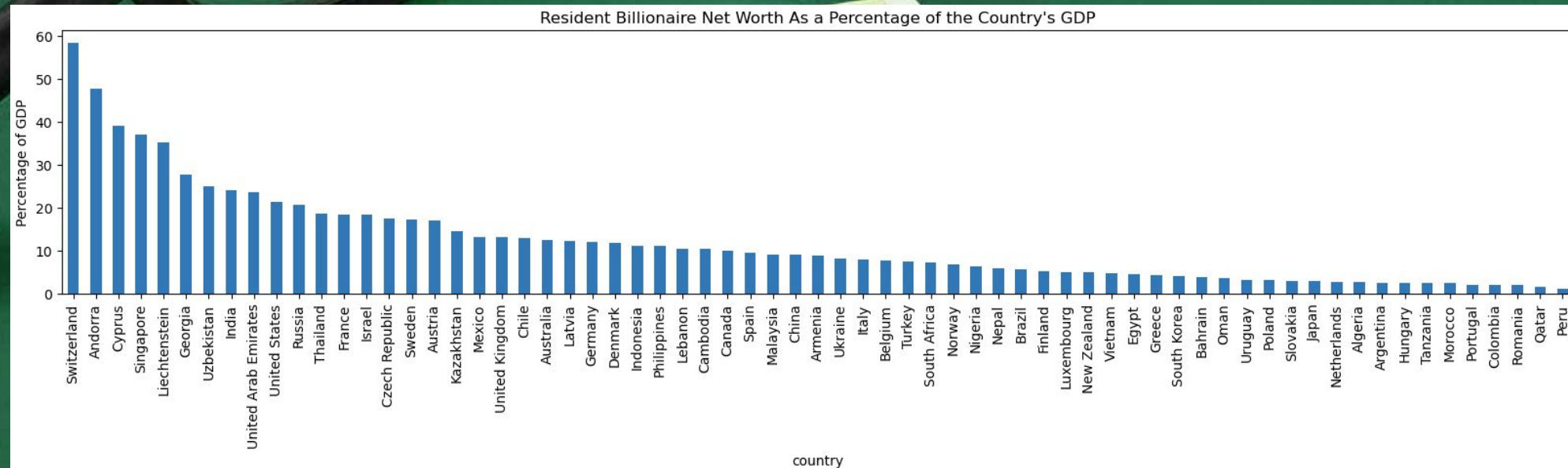
GDP

What is the impact of billionaires on their respective country's GDP and how are billionaires geographically distributed?

- One substantial outlier in Monaco primarily due to their low tax rate.

- 946.44% of GDP

Billionaire Net Worth As a Percentage of the Country's GDP

- Mean: 11.89%
- Median: 8.78%

- Lower Q: 3.95%
- Upper Q: 15.75%

- Min: 1.10%
- Max: 58.30%

Resident Billionaire Net Worth As a Percentage of the Country's GDP

- Mean: 33.36
- Median: 5.00

- Lower Q: 1.25
- Upper Q: 25.75

- Min: 1
- Max: 754

Number of Billionaires by Country

Number of Billionaires by Country

Legend:
- Andrei Molchanov
- Fulvio Montipò & family
- Stanley Motta
- Tyler Perry
- Réal Plourde
- Vera Rechulski Santo Domingo
- George Sakellaris
- Eddy Kusnadi Sariaatmadja
- Scott Smith
- Petter Stordalen & family
- Ivan Streshinsky
- Sergei Sudarikov
- Wijono Tanoko
- Haryanto Tjiptodihardjo
- David Tran & family
- Kenzo Tsujimoto
- Murat Vargi
- Shigefumi Wada
- Wan Feng & family
- Wang Jianfeng & family
- Masaru Wasami
- V. Prem Watsa
- Wen Pengcheng & family
- Toto Wolff
- Franziska Wuerbser
- Xie Bingzheng & family
- Xu Gang
- Yan Junxu
- Yi Xianzhong & family
- Yu Rong
- Richard Yuengling, Jr.
- Zhang Gongyun
- Zhang Guiping & family
- Inigo Zobel

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THANK YOU