

Visualization 1



120 years of Olympic Games

Critique

...

What

...

Characteristics of the Data

1. Occurrences (summer and winter)
2. Data at the sport level, Art competitions were not included in the athletes' data (focused on athletics)

3. lar

```
"ID","Name","Sex","Age","Height","Weight","Team","NOC","Games","Year","Season","City","Sport","Event","Medal"
1,"A Dijiang","M",24,180,80,"China","CHN","1992 Summer",1992,"Summer","Barcelona","Basketball","Basketball Men's Basketball",NA
2,"A Lamusi","M",23,170,60,"China","CHN","2012 Summer",2012,"Summer","London","Judo","Judo Men's Extra-Lightweight",NA
3,"Gunnar Nielsen Aaby","M",24,NA,NA,"Denmark","DEN","1920 Summer",1920,"Summer","Antwerpen","Football","Football Men's Football",NA
4,"Edgar Lindenau Aabye","M",34,NA,NA,"Denmark/Sweden","DEN","1900 Summer",1900,"Summer","Paris","Tug-Of-War","Tug-Of-War Men's Tug-Of-War","Gold"
5,"Christine Jacoba Aaftink","F",21,185,82,"Netherlands","NED","1988 Winter",1988,"Winter","Calgary","Speed Skating","Speed Skating Women's 500 metres",NA
5,"Christine Jacoba Aaftink","F",21,185,82,"Netherlands","NED","1988 Winter",1988,"Winter","Calgary","Speed Skating","Speed Skating Women's 1,000 metres",NA
5,"Christine Jacoba Aaftink","F",25,185,82,"Netherlands","NED","1992 Winter",1992,"Winter","Albertville","Speed Skating","Speed Skating Women's 500 metres",NA
5,"Christine Jacoba Aaftink","F",25,185,82,"Netherlands","NED","1992 Winter",1992,"Winter","Albertville","Speed Skating","Speed Skating Women's 1,000 metres",NA
5,"Christine Jacoba Aaftink","F",27,185,82,"Netherlands","NED","1994 Winter",1994,"Winter","Lillehammer","Speed Skating","Speed Skating Women's 500 metres",NA
5,"Christine Jacoba Aaftink","F",27,185,82,"Netherlands","NED","1994 Winter",1994,"Winter","Lillehammer","Speed Skating","Speed Skating Women's 1,000 metres",NA
6,"Per Knut Aaland","M",31,188,75,"United States","USA","1992 Winter",1992,"Winter","Albertville","Cross Country Skiing","Cross Country Skiing Men's 10 kilometres",NA
6,"Per Knut Aaland","M",31,188,75,"United States","USA","1992 Winter",1992,"Winter","Albertville","Cross Country Skiing","Cross Country Skiing Men's 50 kilometres",NA
6,"Per Knut Aaland","M",31,188,75,"United States","USA","1992 Winter",1992,"Winter","Albertville","Cross Country Skiing","Cross Country Skiing Men's 10/15 kilometres Pursuit",NA
6,"Per Knut Aaland","M",31,188,75,"United States","USA","1992 Winter",1992,"Winter","Albertville","Cross Country Skiing","Cross Country Skiing Men's 4 x 10 kilometres Relay",NA
6,"Per Knut Aaland","M",31,188,75,"United States","USA","1994 Winter",1994,"Winter","Lillehammer","Cross Country Skiing","Cross Country Skiing Men's 10 kilometres",NA
6,"Per Knut Aaland","M",33,188,75,"United States","USA","1994 Winter",1994,"Winter","Lillehammer","Cross Country Skiing","Cross Country Skiing Men's 30 kilometres",NA
6,"Per Knut Aaland","M",33,188,75,"United States","USA","1994 Winter",1994,"Winter","Lillehammer","Cross Country Skiing","Cross Country Skiing Men's 10/15 kilometres Pursuit",NA
6,"Per Knut Aaland","M",33,188,75,"United States","USA","1994 Winter",1994,"Winter","Lillehammer","Cross Country Skiing","Cross Country Skiing Men's 4 x 10 kilometres Relay",NA
7,"John Aalberg","M",31,183,72,"United States","USA","1992 Winter",1992,"Winter","Albertville","Cross Country Skiing","Cross Country Skiing Men's 10 kilometres",NA
7,"John Aalberg","M",31,183,72,"United States","USA","1992 Winter",1992,"Winter","Albertville","Cross Country Skiing","Cross Country Skiing Men's 50 kilometres",NA
7,"John Aalberg","M",31,183,72,"United States","USA","1992 Winter",1992,"Winter","Albertville","Cross Country Skiing","Cross Country Skiing Men's 10/15 kilometres Pursuit",NA
7,"John Aalberg","M",31,183,72,"United States","USA","1992 Winter",1992,"Winter","Albertville","Cross Country Skiing","Cross Country Skiing Men's 4 x 10 kilometres Relay",NA
7,"John Aalberg","M",31,183,72,"United States","USA","1994 Winter",1994,"Winter","Lillehammer","Cross Country Skiing","Cross Country Skiing Men's 10 kilometres",NA
7,"John Aalberg","M",31,183,72,"United States","USA","1994 Winter",1994,"Winter","Lillehammer","Cross Country Skiing","Cross Country Skiing Men's 30 kilometres",NA
7,"John Aalberg","M",31,183,72,"United States","USA","1994 Winter",1994,"Winter","Lillehammer","Cross Country Skiing","Cross Country Skiing Men's 10/15 kilometres Pursuit",NA
```

Why

...

Objectives

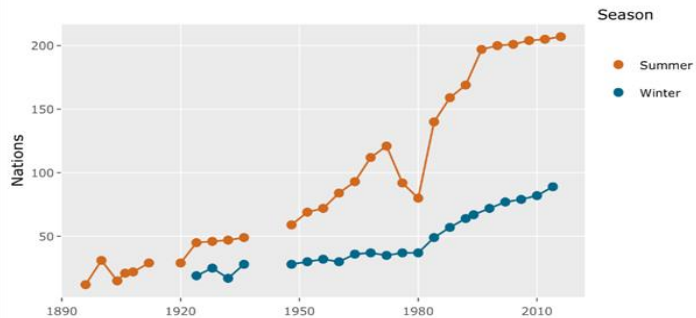
Author's intentions for this visualisation is to answer the following questions:

1. Which countries are the most dominant?
2. How has involvement evolved?
3. Which countries have the most medals in various disciplines?
4. What is the ratio of female/male Olympic attendees?

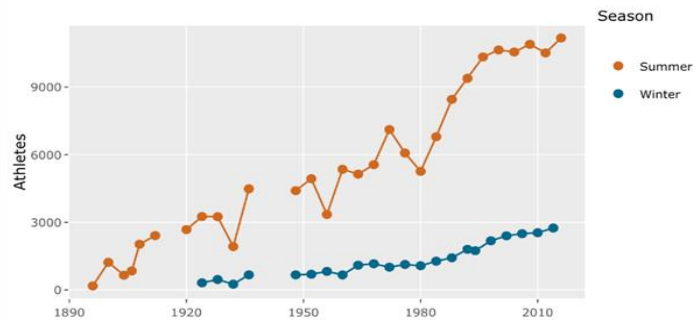
How

...

NATIONS - OLYMPIC GAMES FROM 1896 TO 2016

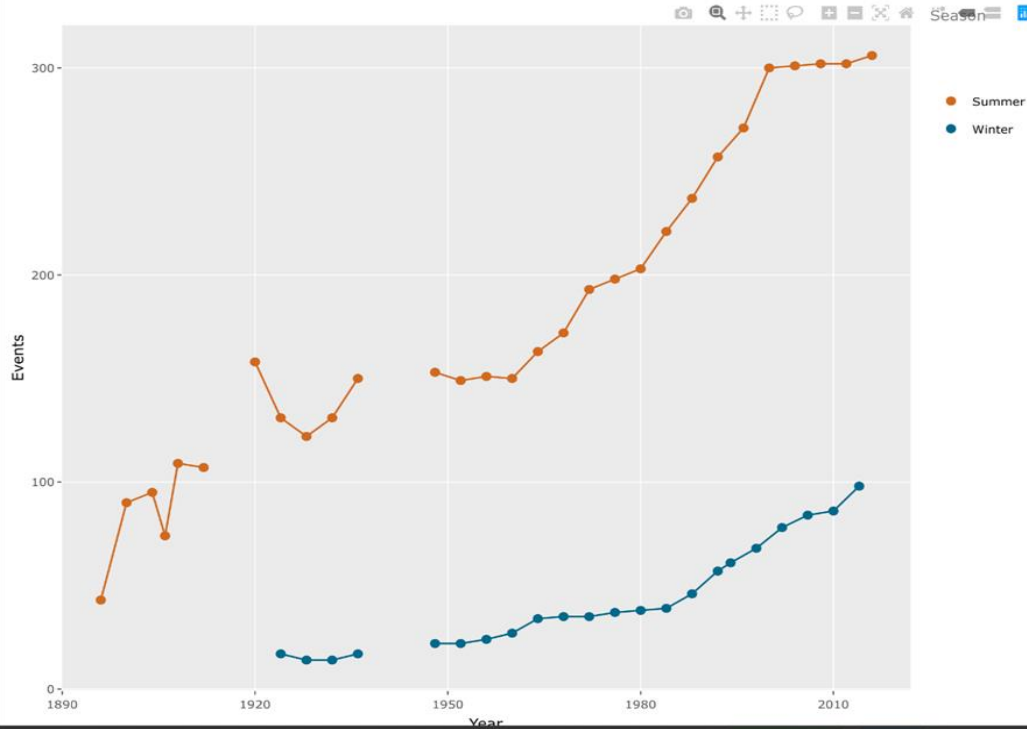


ATHLETES - OLYMPIC GAMES FROM 1896 TO 2016

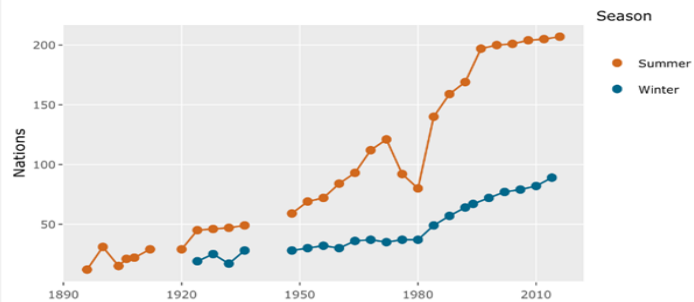


EVENTS - OLYMPIC GAMES FROM 1896 TO 2016

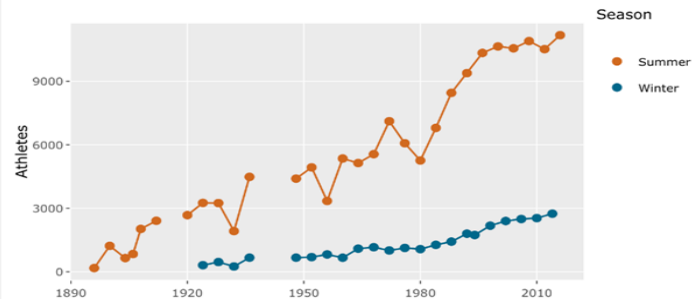
TOP 30 - NATIONS WITH THE MOST MEDALS WON



NATIONS - OLYMPIC GAMES FROM 1896 TO 2016

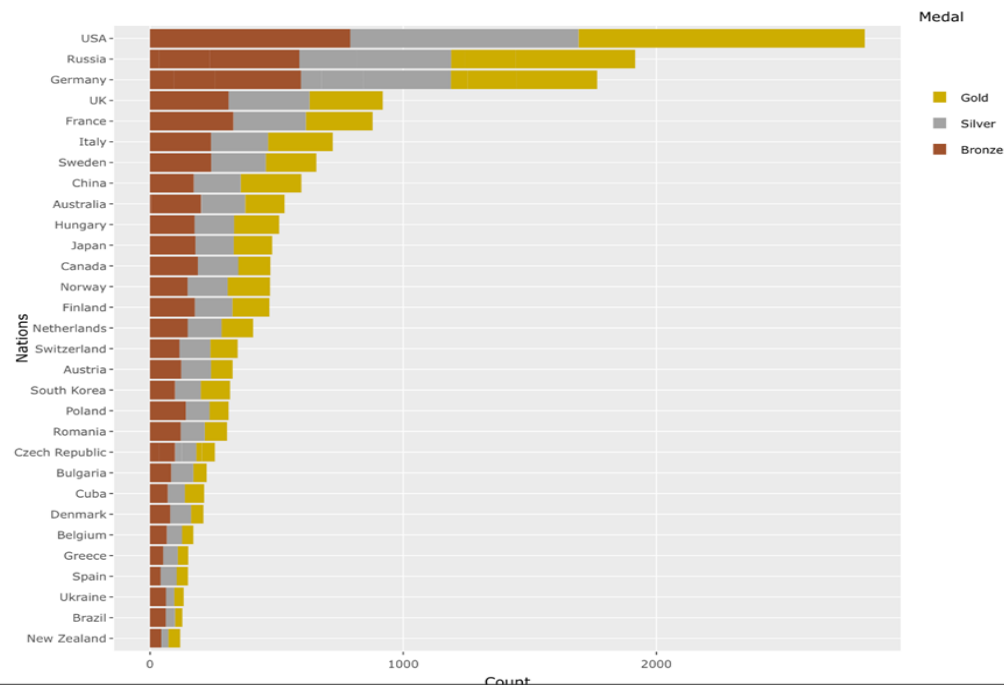


ATHLETES - OLYMPIC GAMES FROM 1896 TO 2016



EVENTS - OLYMPIC GAMES FROM 1896 TO 2016

TOP 30 - NATIONS WITH THE MOST MEDALS WON



How is the data currently visualised

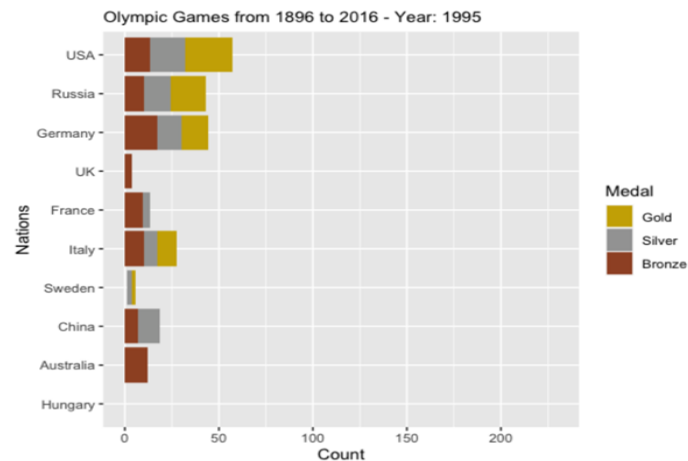
120 years of Olympic Games - How to analyze and visualize the history with R

Part 1

Part 2

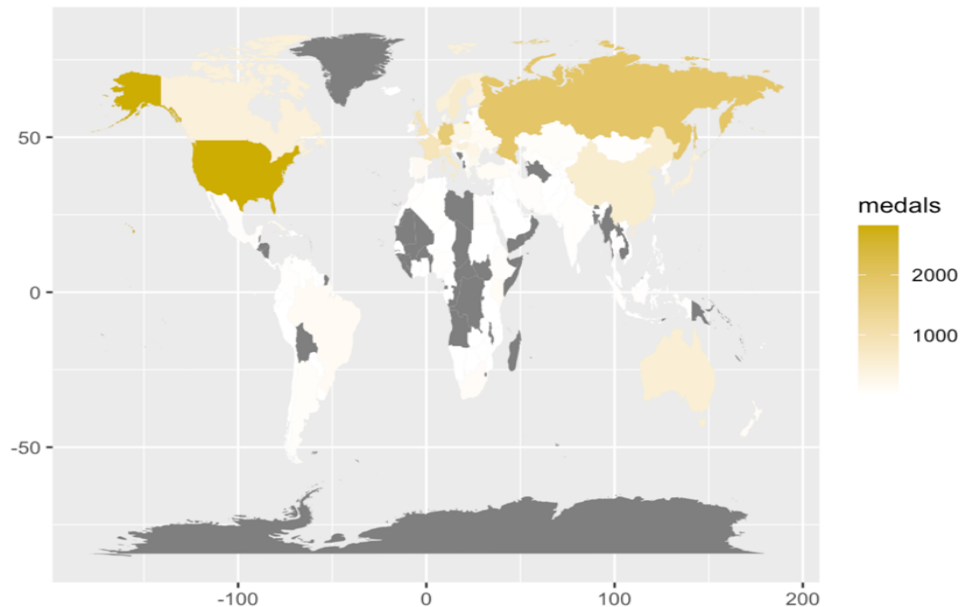
Medium article

TOP 10 - COMPARISON OVER TIME, NATIONS WITH THE MOST MEDALS



MAP OF NATIONS WITH THE MOST MEDALS WON

Olympic Games from 1896 to 2016



Did it achieve its intended task?

1. Which countries are the most dominant?
 - Yes
2. How has involvement evolved?
 - To a certain degree
3. Which countries have the most medals in various disciplines?
 - No
4. What is the ratio of female/male Olympic attendees?
 - No

Suggestions

...

What

...

We plan to use the same dataset

Why

...

Provide insight for aspiring Olympic athletes

How

...

Improvements

high

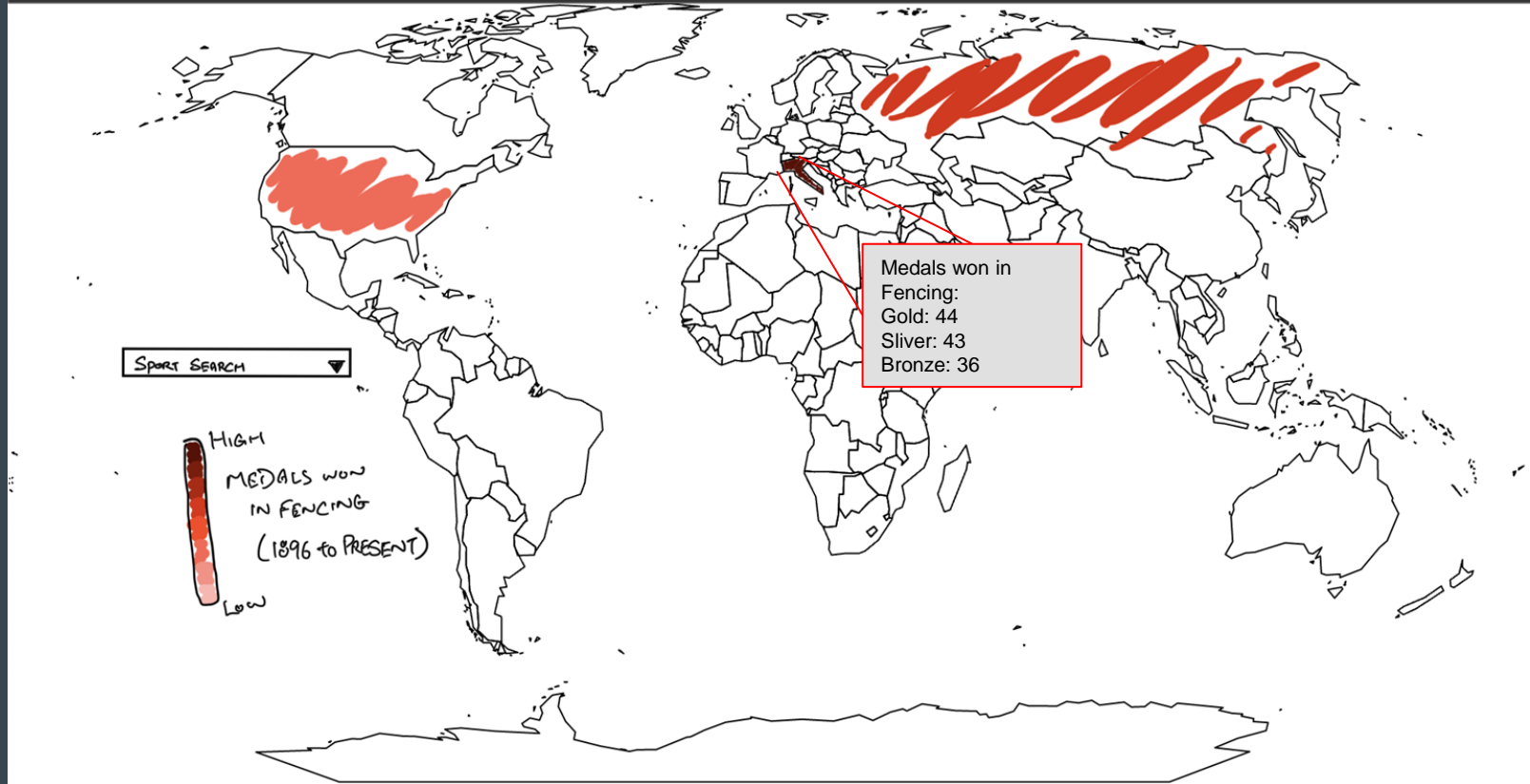


medals /
athlete

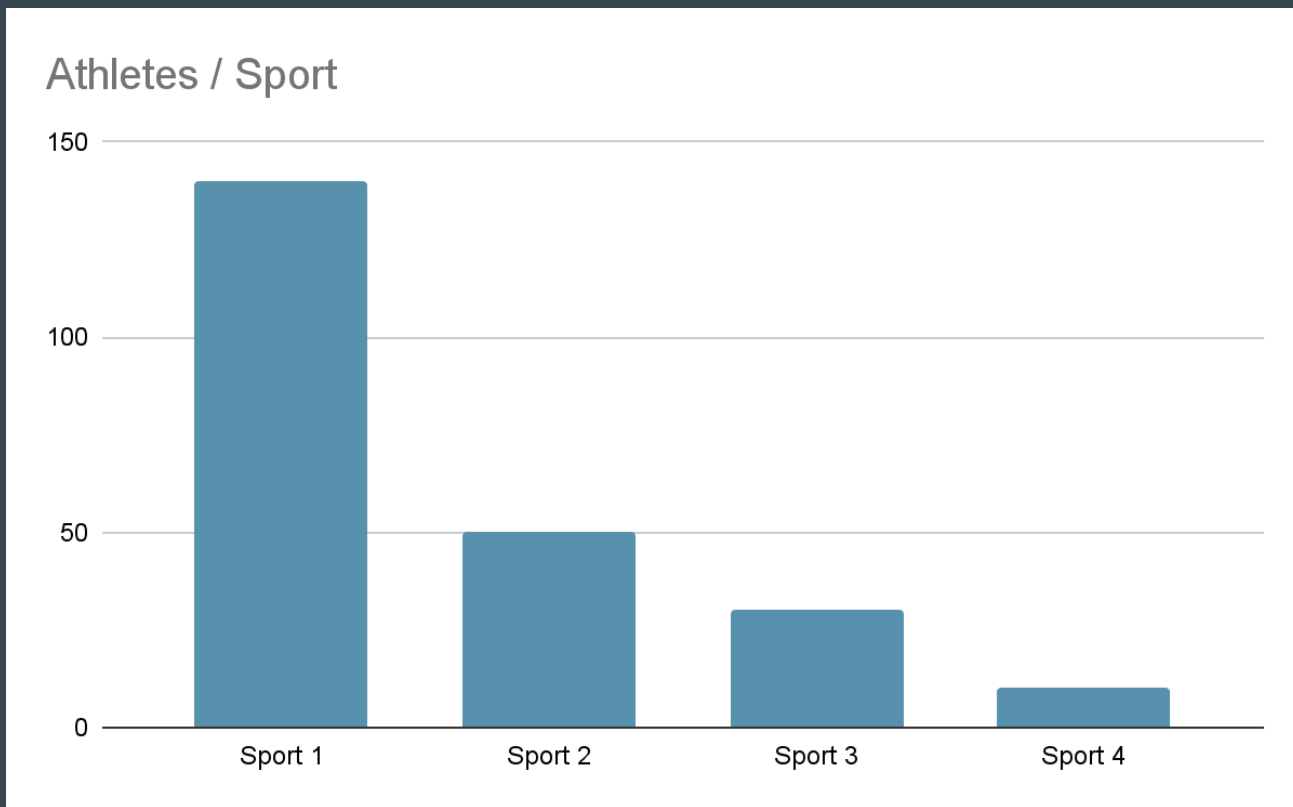
low



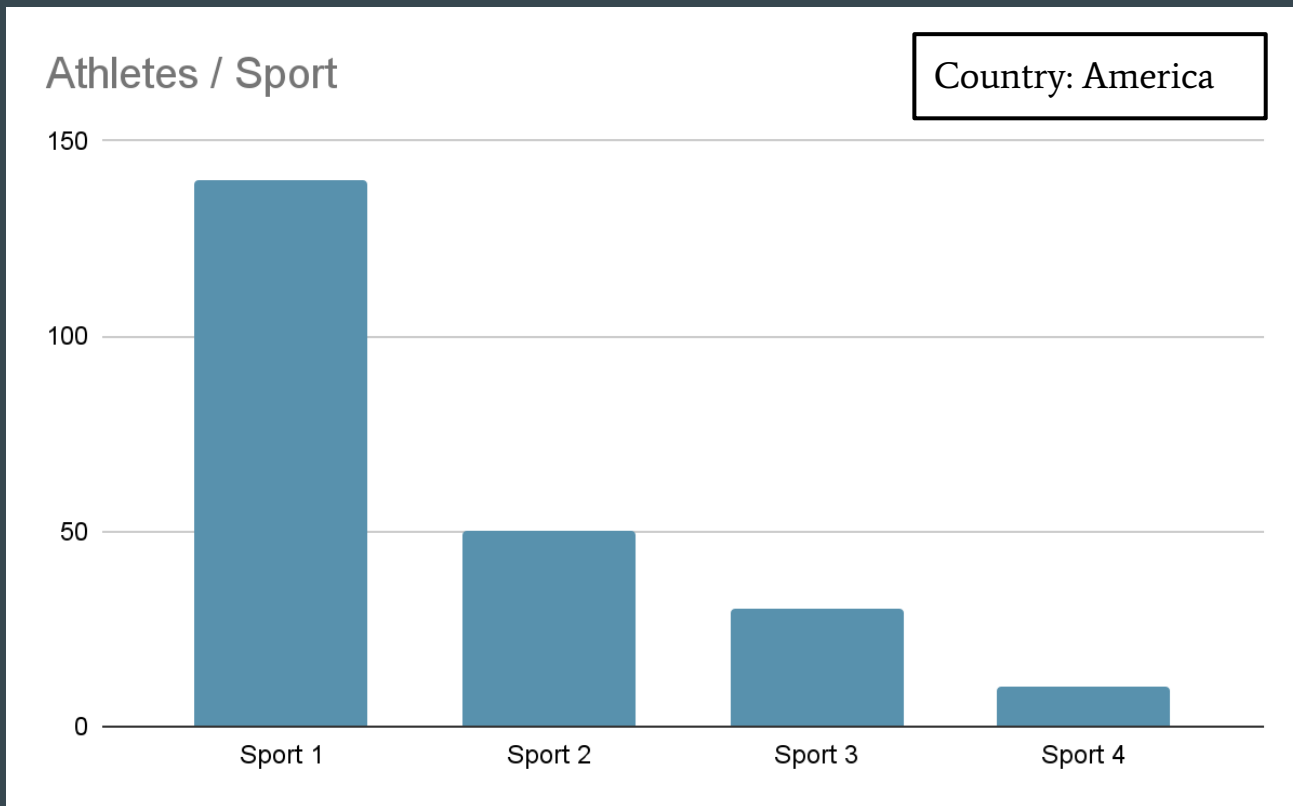
Improvements



Improvements

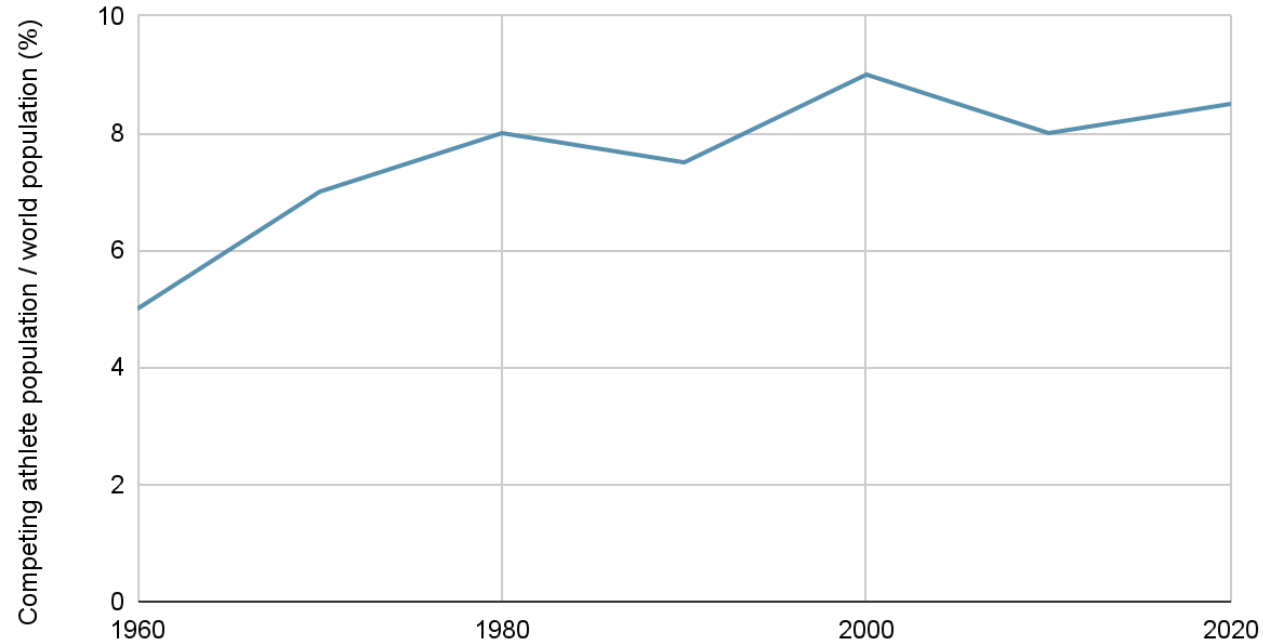


Improvements



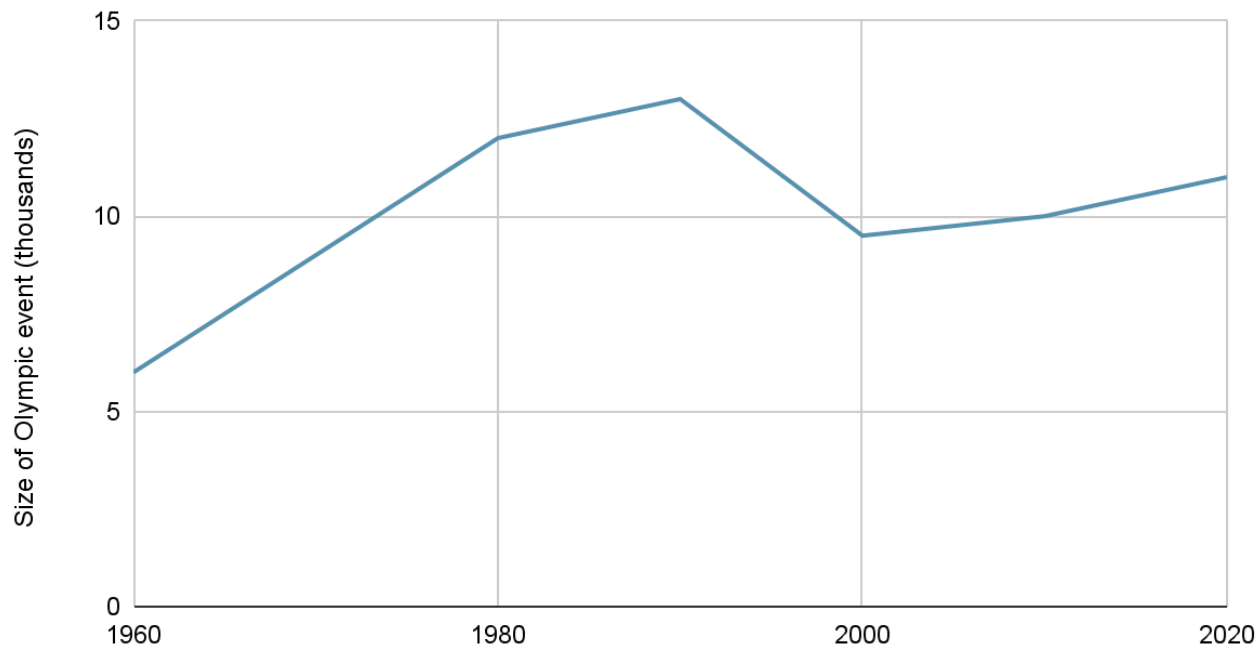
Improvements

Percentage of competing athlete over the years



Improvements

Size of Olympic events over the years



Visualization 2



Singapore Automotive Sales Volume

MENU

Home

Daily News Worldwide

Automotive Sales

- Models by Country
- Search By Model/EV/etc.

Automotive Production

- Models by Country
- Search By Model/OEM/etc.
- Engine Data

Model Launch Schedules

- By OEM / Market **New**
- Models/Refined search

Electric/Autonomous

Market & Tech Reports

- Latest
- EV / Exhibitions / Teardowns
- Forecast Reports

Benchmarking/Teardown

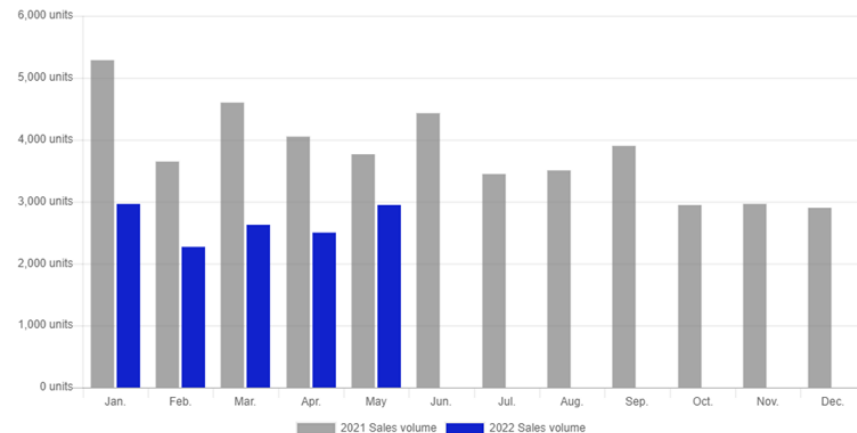
- Teardown Reports
- Fee based data&Report **New**
 - Inverter
 - Side-by-side EV Motor
 - Tesla Model Y
 - Tesla Model 3
 - Model 3 CAD Data

OEM Plants

- Plant Location
- Search (OEM/Region)
- Capacity Distribution

[Home](#) > [Vehicle Sales Data](#) > [Models by Country](#) > Singapore - Automotive Sales volume, 2022

Singapore - Automotive Sales volume, 2022



[Free Trial](#) for Monthly Sales by Model in Singapore

[2017](#)
[2018](#)
[2019](#)
[2020](#)
[2021](#)
[2022](#)

Flash report, Automotive sales volume, 2022

[Jan.](#)
[Feb.](#)
[Mar.](#)
[Apr.](#)
[May](#)
[Jun.](#)
[Jul.](#)
[Aug.](#)
[Sep.](#)
[Oct.](#)
[Nov.](#)
[Dec.](#)

Flash report, May 2022

Jun 14, 2022

*There are cases where recently released data and detailed information in the database do not match up for reasons including different information sources, and discrepancies between preliminary reports and confirmed data.

Critique

...

What

...

Singapore - Registrations of new cars

Maker/Brand	Dec. 2021	Share	Jan.-Dec. 2021	Share
Toyota	694	23.9%	9,633	21.2%
Mercedes-Benz	286	9.9%	6,421	14.1%
BMW	292	10.1%	5,255	11.6%
Honda	270	9.3%	4,815	10.6%
Hyundai	195	6.7%	2,861	6.3%
Mazda	64	2.2%	2,366	5.2%
Audi	180	6.2%	1,975	4.3%
Nissan	83	2.9%	1,821	4.0%

Why

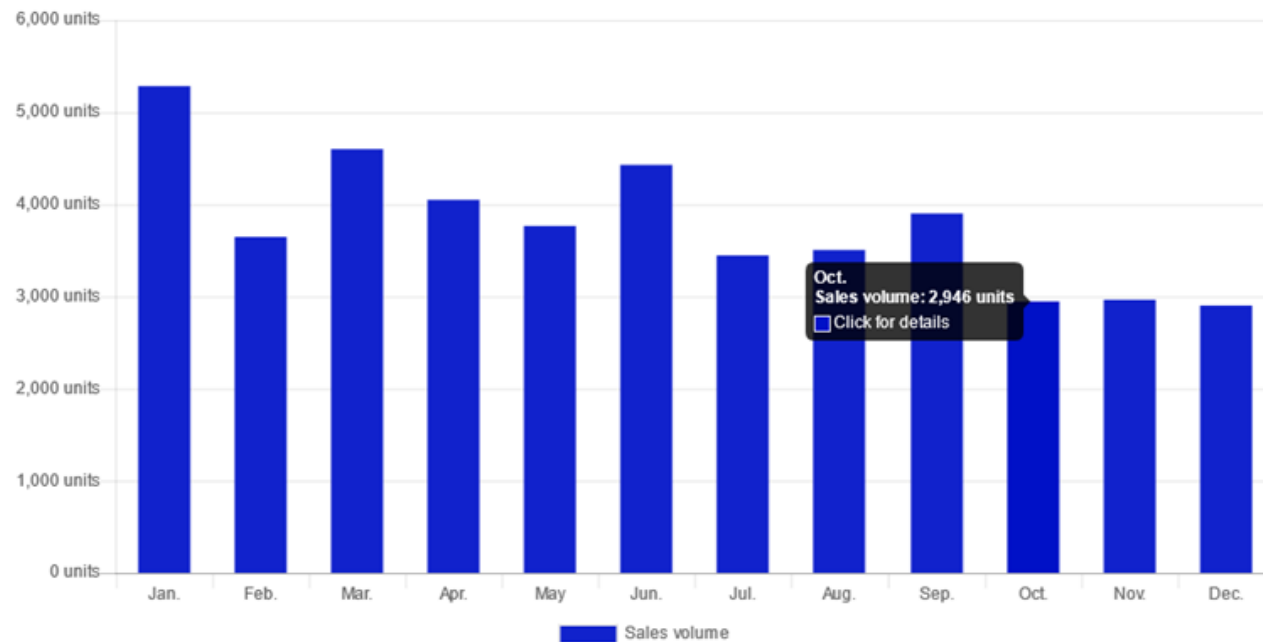
...


Provide accurate information for end-user

How

...

Singapore - Automotive sales volume, 2021



 **Free Trial** for Monthly Sales by Model in Singapore ▶

[2017](#) [2018](#) [2019](#) [2020](#) [2021](#) [2022](#)

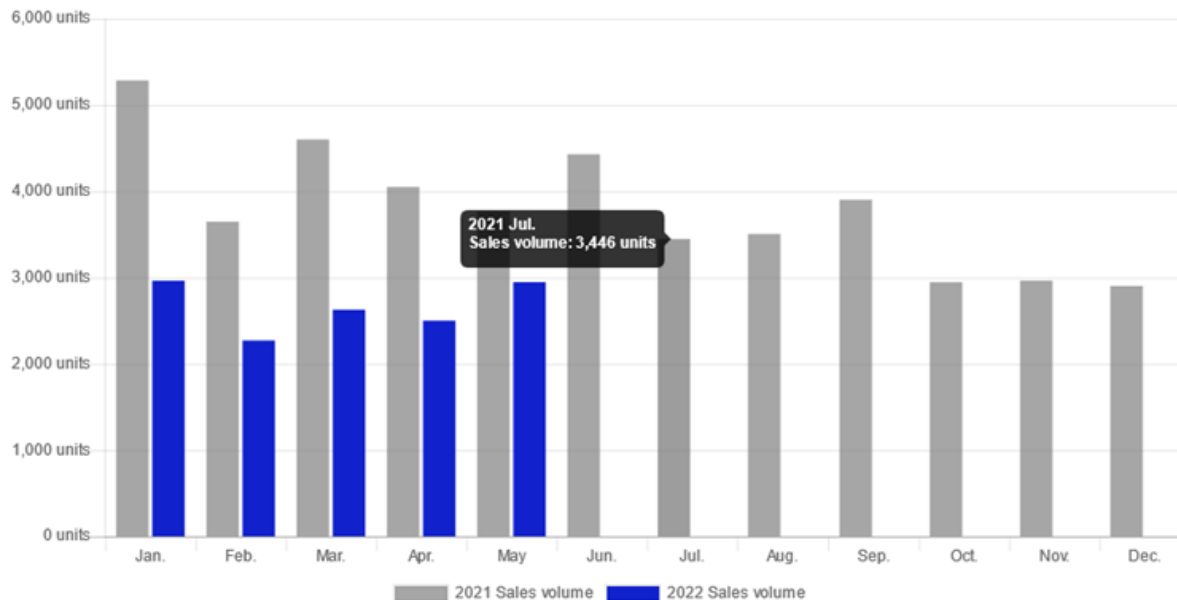
Flash report, Automotive sales volume, 2021


[Jan.](#) [Feb.](#) [Mar.](#) [Apr.](#) [May](#) [Jun.](#) [Jul.](#) [Aug.](#) [Sep.](#) [Oct.](#) [Nov.](#) [Dec.](#)

Singapore - Registrations of new cars

Maker/Brand	Dec. 2021	Share	Jan.-Dec. 2021	Share
Toyota	694	23.9%	9,633	21.2%
Mercedes-Benz	286	9.9%	6,421	14.1%
BMW	292	10.1%	5,255	11.6%
Honda	270	9.3%	4,815	10.6%
Hyundai	195	6.7%	2,861	6.3%
Mazda	64	2.2%	2,366	5.2%
Audi	180	6.2%	1,975	4.3%
Nissan	83	2.9%	1,821	4.0%

Singapore - Automotive Sales volume, 2022



 **Free Trial** for Monthly Sales by Model in Singapore ▶

[2017](#) [2018](#) [2019](#) [2020](#) [2021](#) [2022](#)

Flash report, Automotive sales volume, 2022

[Jan.](#) [Feb.](#) [Mar.](#) [Apr.](#) [May](#) [Jun.](#) [Jul.](#) [Aug.](#) [Sep.](#) [Oct.](#) [Nov.](#) [Dec.](#)

Did it achieve its intended task?

1. Does it show the consumer trend
 - Yes, total sales only
2. Which brands should the suppliers stock up for spare parts?
 - Hard to visualise from a table
3. Does it provide any insights of the consumer trend across the years?
 - Yes, in multiple tables and no visualisation

Suggestions

...

What

...

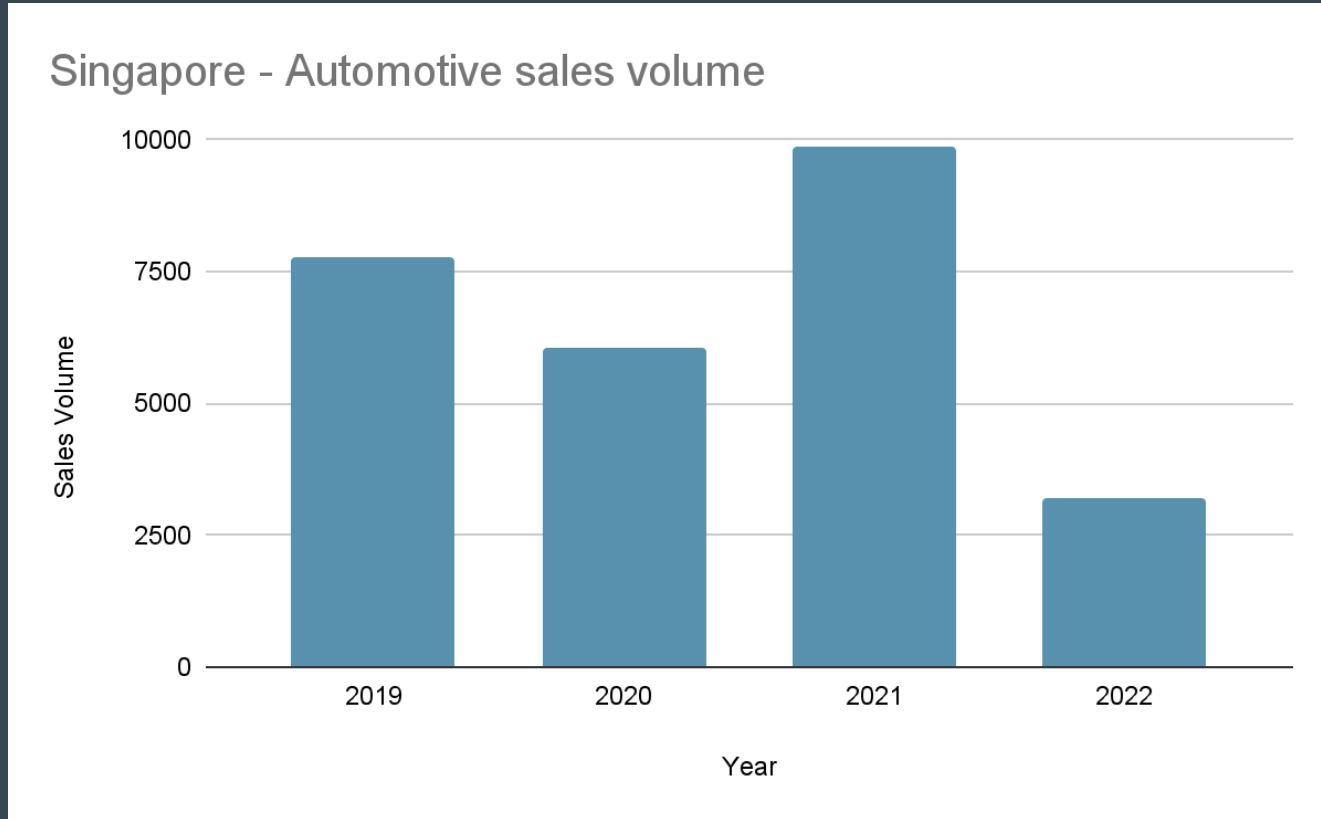
Why

...

How

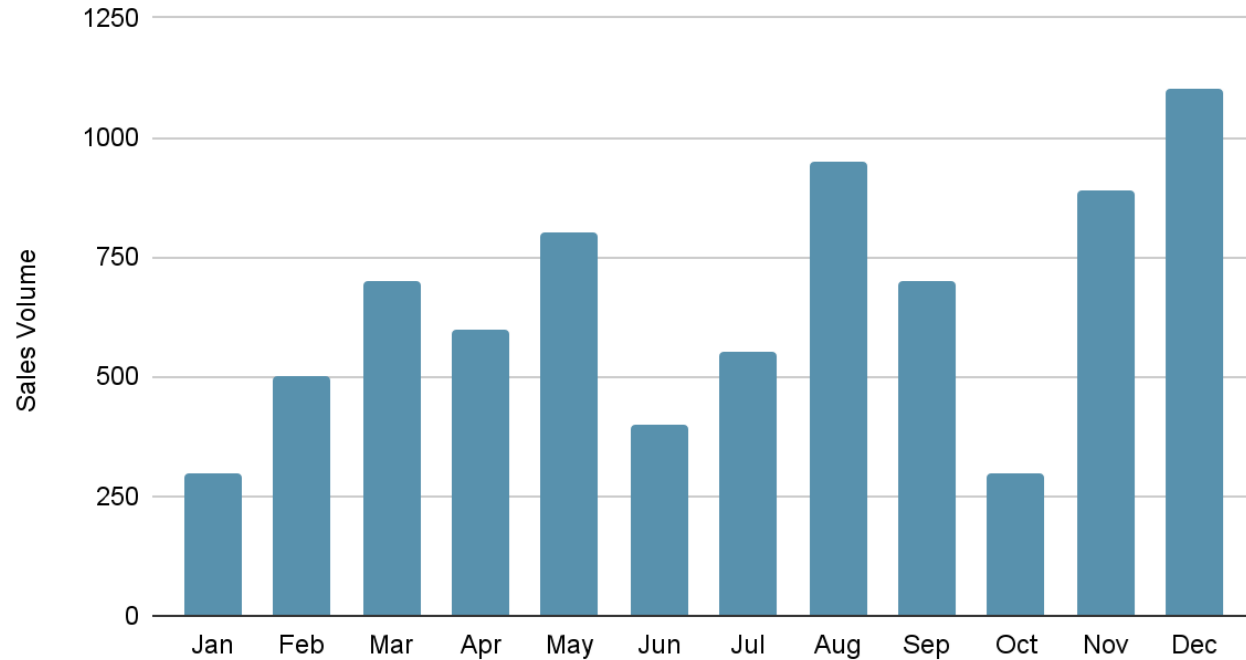
...

Sales volume by year



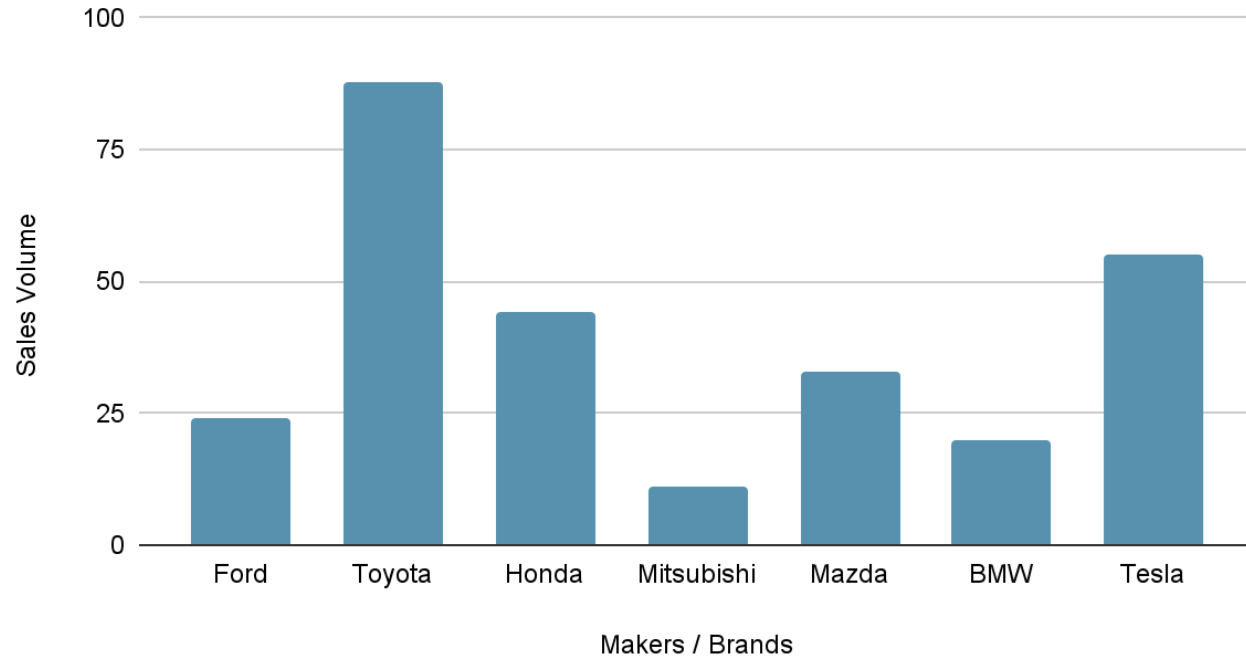
Sales volume by month

Singapore - Automotive sales volume, 2019

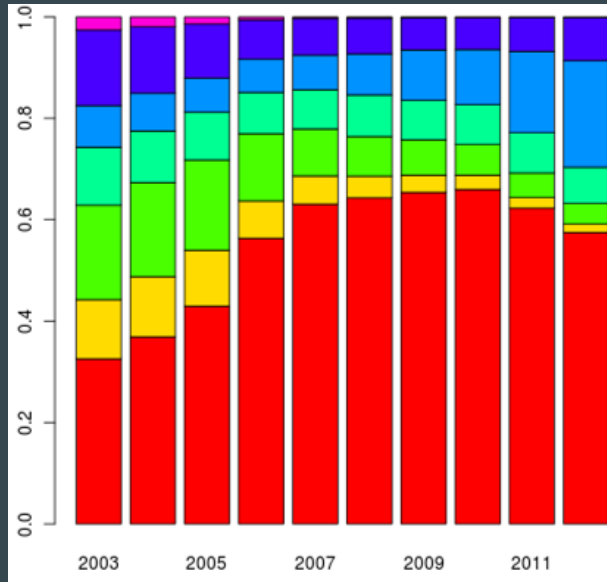


Sales volume by brands for particular month

Singapore - Automotive sales volume, Feb 2019

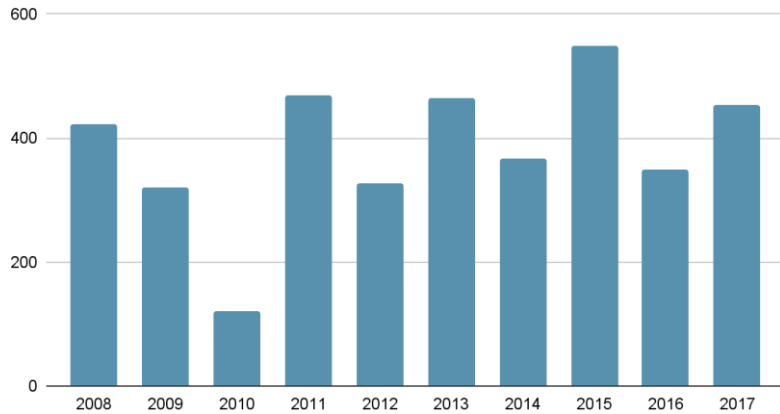


Show market share over years

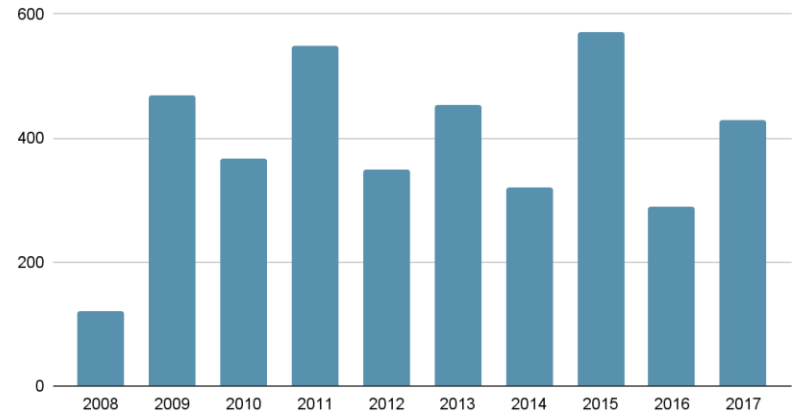


Sales volume by brand over the years

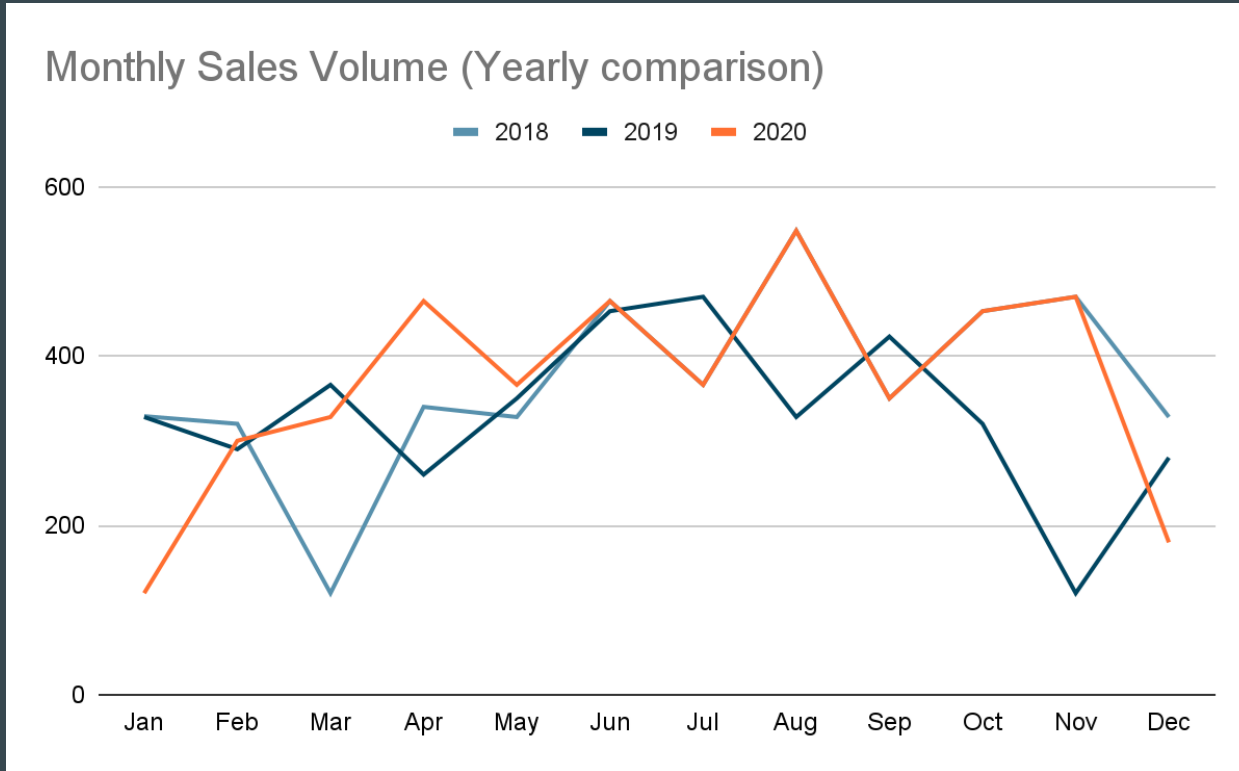
Ford



Honda



Total sales volume pattern



Project Links

Visualisation 1

- <https://github.com/cosmoduende/r-olympic-games>
- <https://rpubs.com/cosmoduende/olympic-games>

Visualisation 2

- https://www.marklines.com/en/statistics/flash_sales/automotive-sales-in-singapore-by-month

End

...