

Which car brand is the least harmful to our environment?

Further questions to analyze...

01

Which country manufactures the car brands that pollute our air the most?

03

Is our hypothesis correct?

02

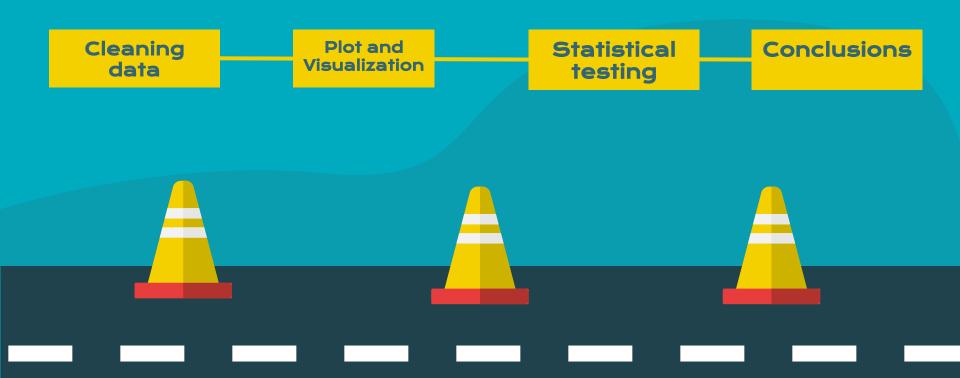
Which Brand is the healthiest to our environment?

04

To look at the emission control between all countries.



Methods used



Countries to be focused on



Hypothesis and null hypothesis

Null Hypothesis:

1. There is no correlation in regards to Engine size and the emission.

Hypothesis:

The larger the Engine size results in more emission and gas produced.

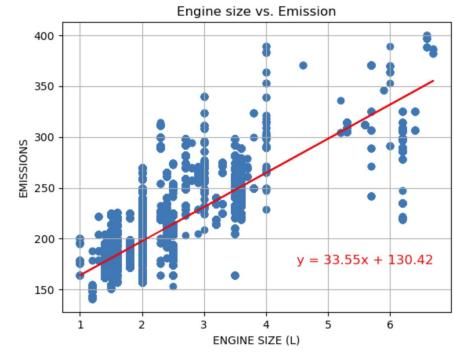


Regression Analysis

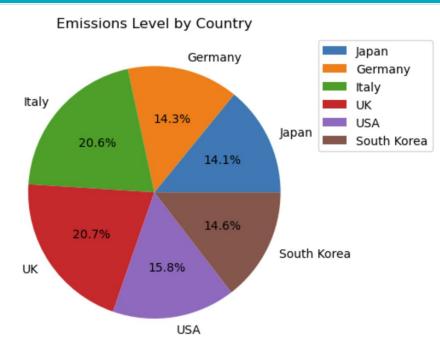
Using Anova a p-value of 4.76 was calculated. According to the r value calculated there is a 78% that depends on the emission variable and the engine size is an independent variable. The larger the engine size the more fuel is used for a larger emission production. Therefore we reject the null hypothesis.



The r-square is 0.782646091967873y = 33.55x + 130.42



Which Country
Produced the highest
emission rate?





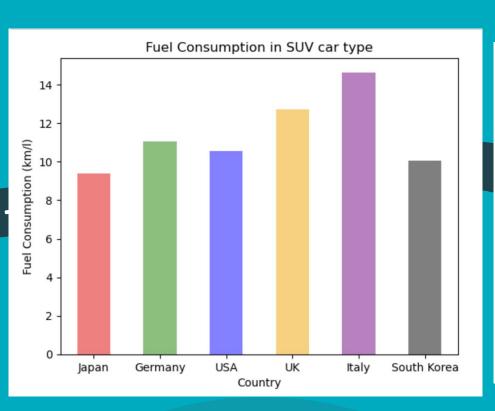
What body types of cars are most produced by all countries?

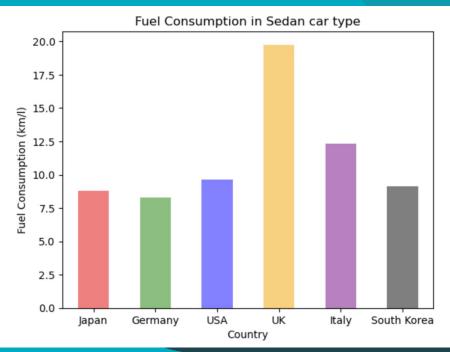
The fuel			
on the tw	o most	produ	ıced
car brand	ds		

SUV	47356	
Sedan	39976	
Hatchback	16871	
Pickup	7936	
Coupe	1651	
Wagon	1511	
Minivan	1225	
Convertible	328	
Targa	302	
Crossover	41	
Cargo Van	17	

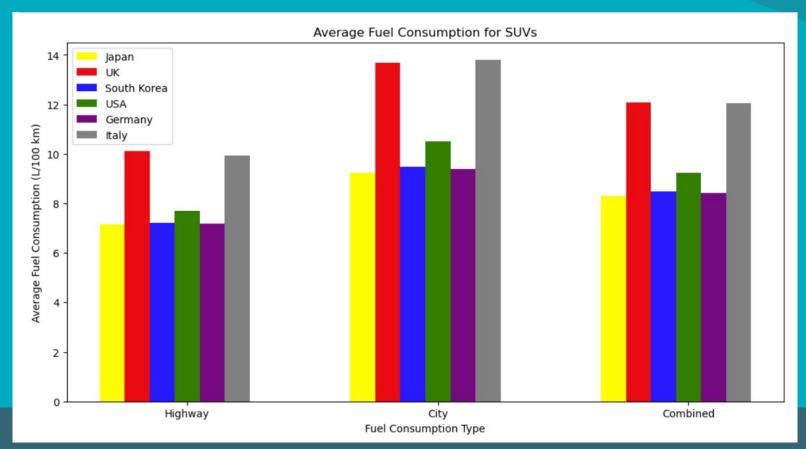
	Country	SUV Fuel Consumption	Sedan Fuel Consumption
0	Japan	9.411280	8.767896
1	Germany	11.050280	8.297013
2	USA	10.552274	9.642283
3	UK	12.725157	19.752941
4	Italy	14.645588	12.327500
5	South Korea	10.064256	9.158132

What is the relation?



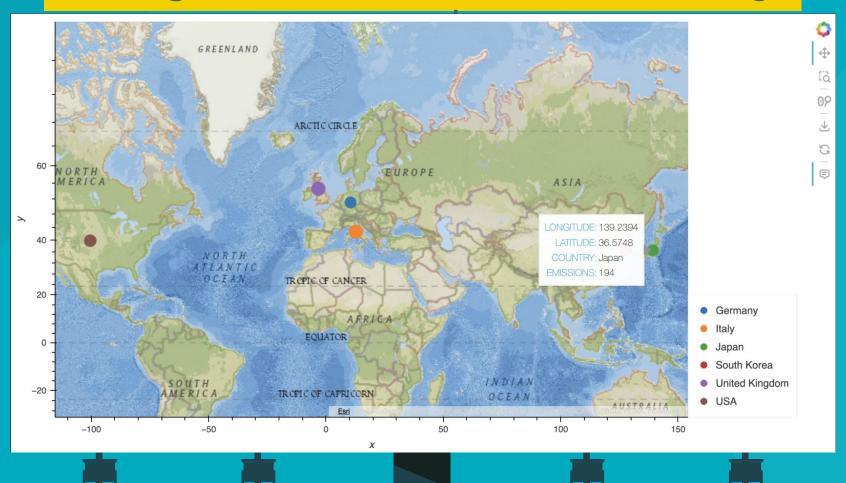


Looking at the emissions by brand and year





Average emission of all cars in each country



Limitations of our data set:

Not all cars present

Looking at second hand cars

Only looked through the last 5 years



Conclusions

- 1. Looking at all 6 country, overall the cars produced in Italy has the largest Emission levels.
- SUVs and Sedans were the most popularly bought and made car brand.
- 3. Most polluting car is a Rolls Royce.
- 4. Lowest emission cars: Mitsubishi Mirage(Hatchback), Mitsubishi Mirage G4(Sedan), Nissan Kicks(SUV).



