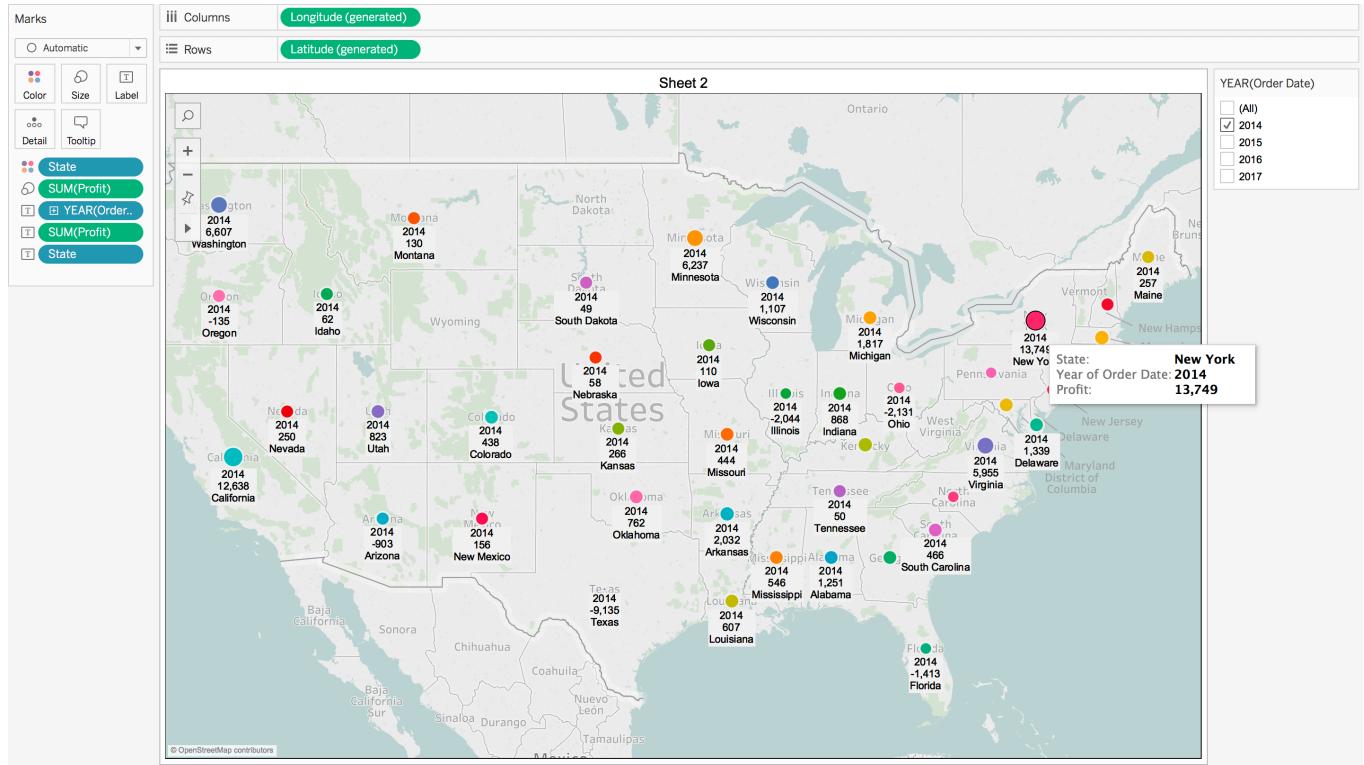


ASSIGNMENT 5

TASK 1

1.) What state in the United States was the most profitable in 2014?



Map based on Longitude (generated) and Latitude (generated).

Color shows details about State.

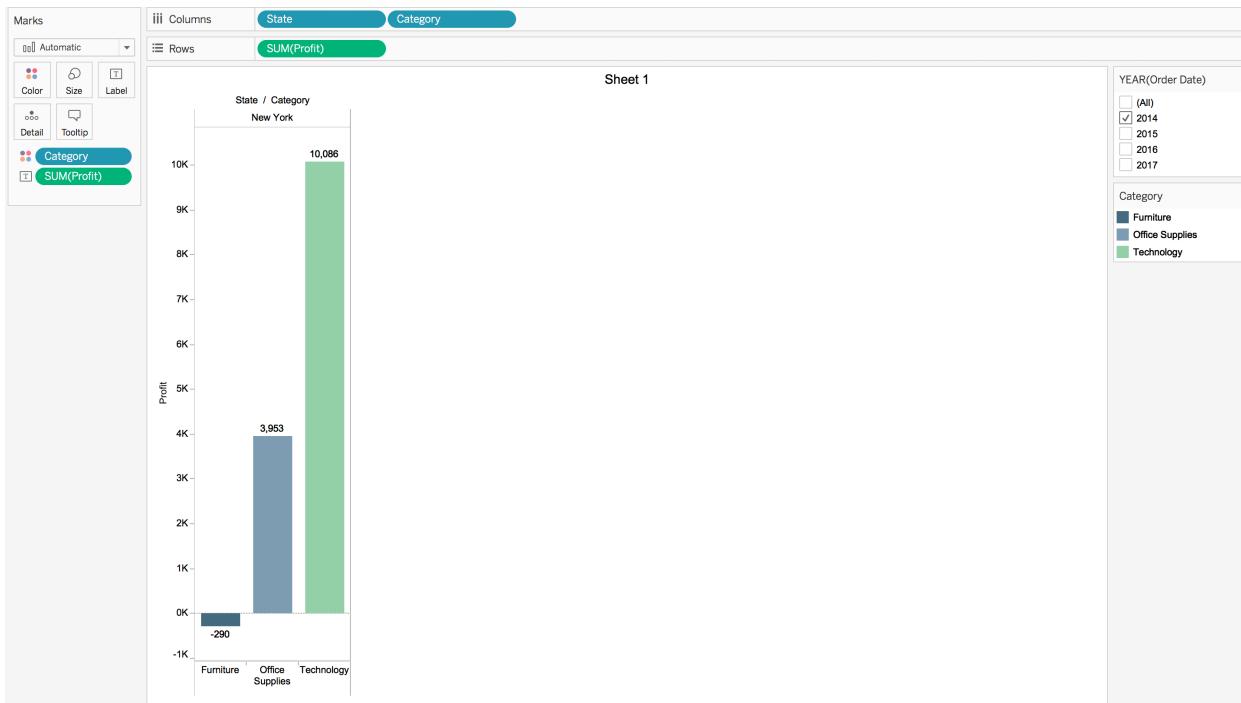
Size shows sum of Profit.

The marks are labeled by Order Date Year, sum of Profit and State.

The view is filtered on Order Date Year, which keeps 2014.

From the above visualization, we can say that the state New York was most profitable in the year 2014.

- 2.) Within the state identified in 1, which product category was most profitable?
Which product category was least profitable?**



Sum of Profit for each Category broken down by State.

Color shows details about Category.

The marks are labeled by sum of Profit.

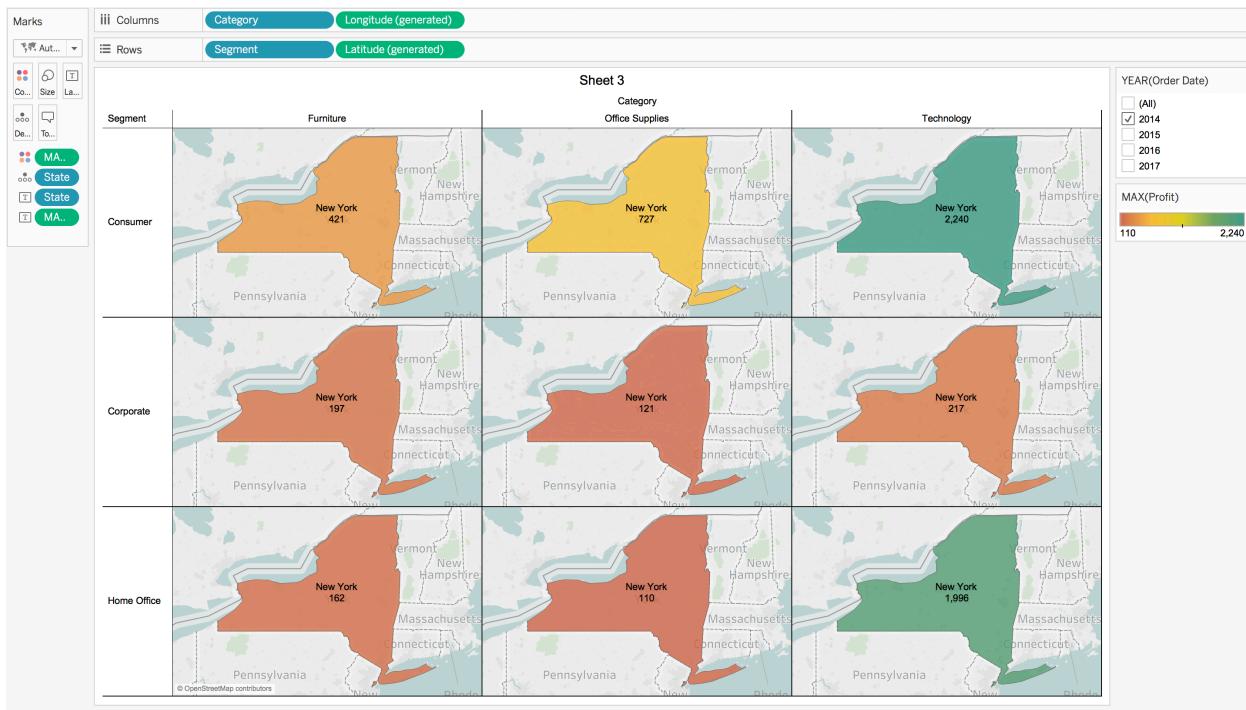
The data is filtered on Order Date Year, which keeps 2014.

The view is filtered on State, which keeps New York.

From the above visualization, we can say that the product category Technology was most profitable.

The product category Office supplies was less compared to technology and the product category furniture had negative profit i.e. under loss for the year 2014

- 3.) For the product categories in 2, which customer segments were responsible for the highest profits? Is there one product category responsible for the highest profit across the customer segments?



Map based on Longitude (generated) and Latitude (generated) broken down by Segment vs. Category.

Color shows sum of Profit. The marks are labeled by State and sum of Profit. Details are shown for State.

The data is filtered on Order Date Year, which keeps 2014.

The view is filtered on State, which keeps New York.

From the visualization, we can interpret that

- The customer segment Consumer were responsible for the highest profits.
- When we total the maximum profit obtained by category we can observe that the product category Technology is responsible for the highest profit across all customer segments.

TASK 2

As a kid I grew up watching cartoons like Pokémon, Dragon Ball z etc. and was always fascinated by them. So, when I found this dataset about Pokémon I was instantly interested. And hence for this task, I chose the dataset “Pokémon Index.csv”.

This dataset contains attack, defense, speed, and HP(Health/Hit Points) stats for all Pokémon's numbered 1-718 and their special forms.

Source:

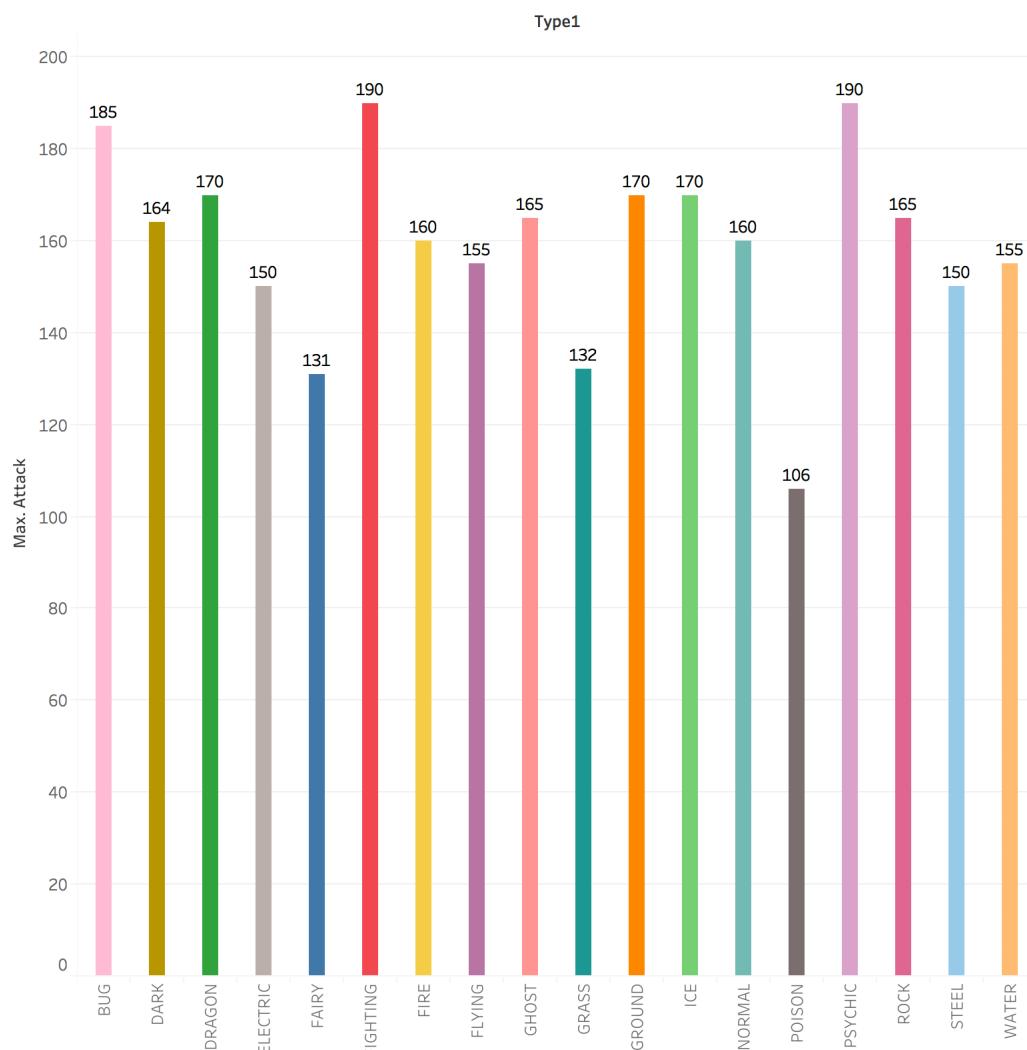
<https://public.tableau.com/en-us/s/resources>

Via [PokemonDB.net](#)

Questions

1.) Which “Type” of Pokémon has the maximum attack?

Max Attack by Type



Maximum of Attack for each Type1.

Color shows details about Type1.

The marks are labeled by maximum of Attack.

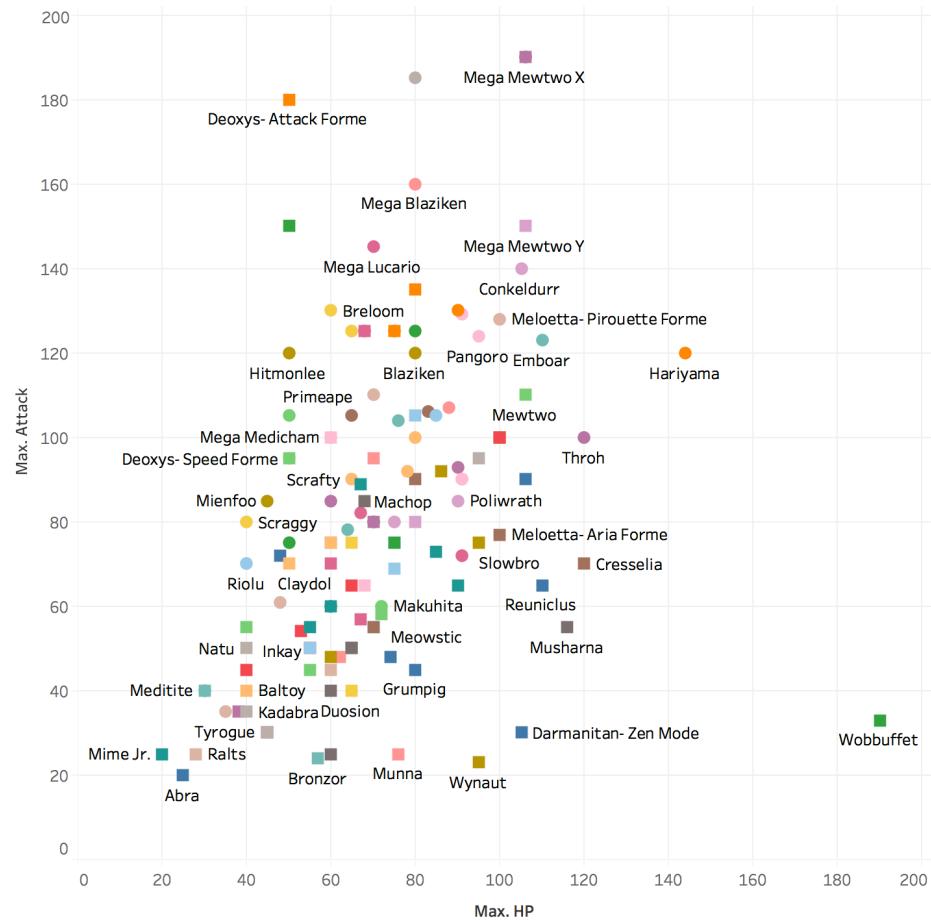
From the above visualization, we can see that the Pokémons of Type: Fighting and Type: Psychic both with an attack of 190.

From the question 1 we know that the Pokémons of “Type Fighting and Psychic” have the highest attack.

For Question 2 I took the different Pokémons belonging to these two types and wanted to compare whether the Attack has any influence on the HP of the Pokémon.

2.) What is the influence of HP on attack and vice versa?

HP Vs Attack filtered on Type and Names with Max Attack

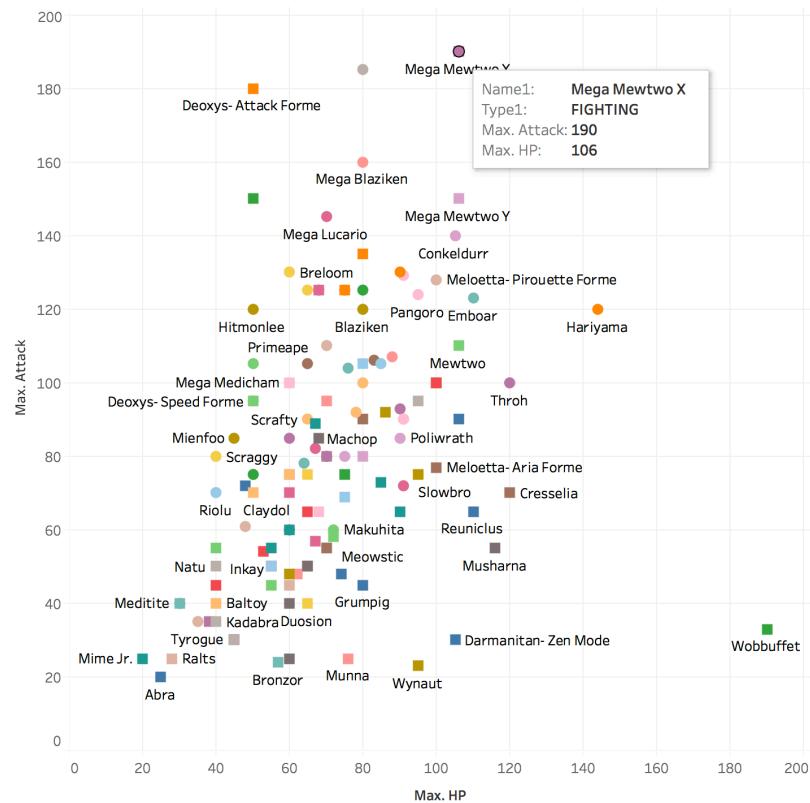


Type1

- FIGHTING
- PSYCHIC

Maximum of HP vs. maximum of Attack.
Color shows details about Name1.
Shape shows details about Type1.
The marks are labeled by Name1.
The view is filtered on Type1, which keeps FIGHTING and PSYCHIC.

HP Vs Attack filtered on Type and Names with Max Attack

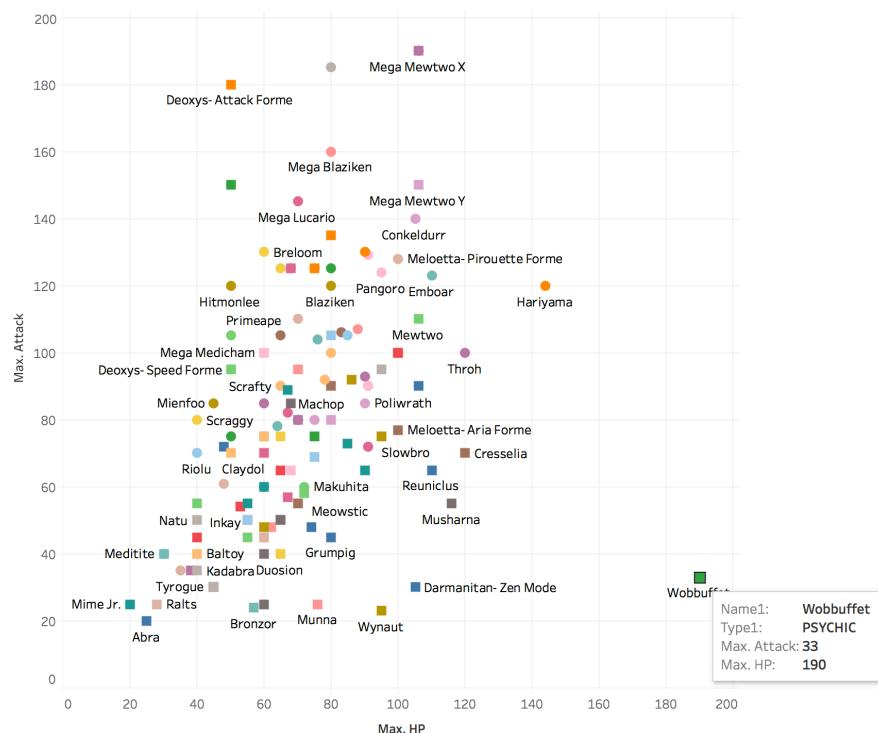


From this visualization, we can see that the Max attack of **Mega Mewtwo X** is 190 and the HP is 106.

From this, we can that whenever the value of attack is high the value of HP is low.

This shows that there is a negative correlation or attack and HP are inversely proportional.

HP Vs Attack filtered on Type and Names with Max Attack



From this visualization, we can see that the max attack of **Wobbuffet** is 33 but the HP is 190.

From this, we can say that whenever the value of attack is low the value of HP is high.

This shows that there is a negative correlation or attack and HP are inversely proportional.

3.) Which Pokémon “Type” has the highest total?

Note: The Max total includes Max Speed, Max Attack, Max Defense, Max Special Attack, Max Special Defense.



Type1 and maximum of Total. Color shows details about Type1.

Size shows maximum of Total.

The marks are labeled by Type1 and maximum of Total.



From this visualization, we can see that the “Type” Fighting and Psychic has the highest total compared to other types.



Other interpretations when can compare the values of Defense between fighting and Psychic.

- The type Psychic has maximum Defense, maximum Special Attack and Speed
- The type Fighting and Psychic have equal Attack.



From this visualization, we can see that the “Type” BUG have the least total.

Other interpretations when compared to the type FIGHTING and PSYCHIC are:

- We can see that the type BUG has higher Defense, Special Defense when compared to both the type Fighting and Psychic.