

Pokemon Data Visualization

VI Project 2021-22

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Motivation

- Pokemon data is widely available
- Potential for many different representations in statistics / data analysis
- Lack of some useful interactive visual representations

Theme

General game rules:

- 2 players choose a team of 6 Pokemon to battle
- Each player can only have a Pokemon at a time in the battlefield
- Pokemon are represented by their stats and types
- Stats can be Attack, Defense, Special Attack, Special Defense, Speed, Health
- A Pokemon can have 1 or 2 types. Some types are strong against others and Pokemon will take more damage from a dominant type

Dataset


- **name**: The English name of the Pokemon
- **pokedex_number**: The entry number of the Pokemon(id)
- **types**: The types of the Pokemon
- **against**: Eighteen features that denote the amount of damage taken against an attack of a particular type
- **stats**: The stats of a Pokemon
- **generation**: The numbered generation which the Pokemon was first introduced


Users

There are 2 types of users:

- Competitive Player - wants to know the strategies that can perform better so that it can win more.
- Casual Player - is more interested in curiosities and likes to search for details about the games.

How can the user see the information about a specific Pokemon?

Tsareena #763 



Pokemon Stats

ATTACK	120	<div></div>
DEFENSE	98	<div></div>
HP	72	<div></div>
SP ATTACK	50	<div></div>
SP DEFENSE	98	<div></div>
SPEED	72	<div></div>

Type Weaknesses

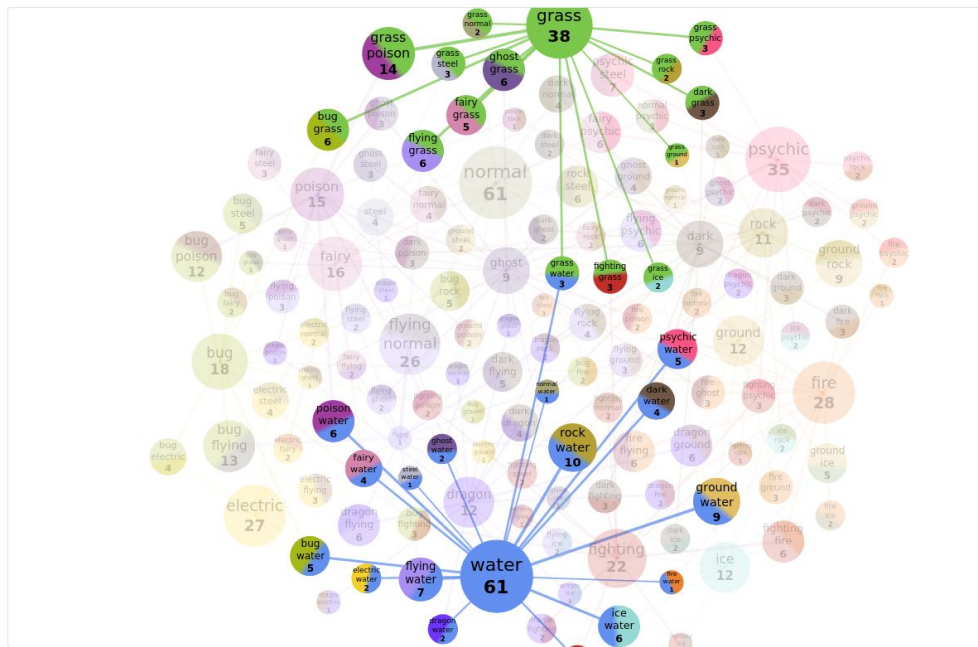
Bug	Dar	Dra	Ele	Fai	Fig	Fir	Fly	Gho
2	1	1	½	1	1	2	2	1
Gra	Gro	Ice	Nor	Poi	Psy	Roc	Ste	Wat
½	½	2	1	2	1	1	1	½

[ADD TO TEAM](#)

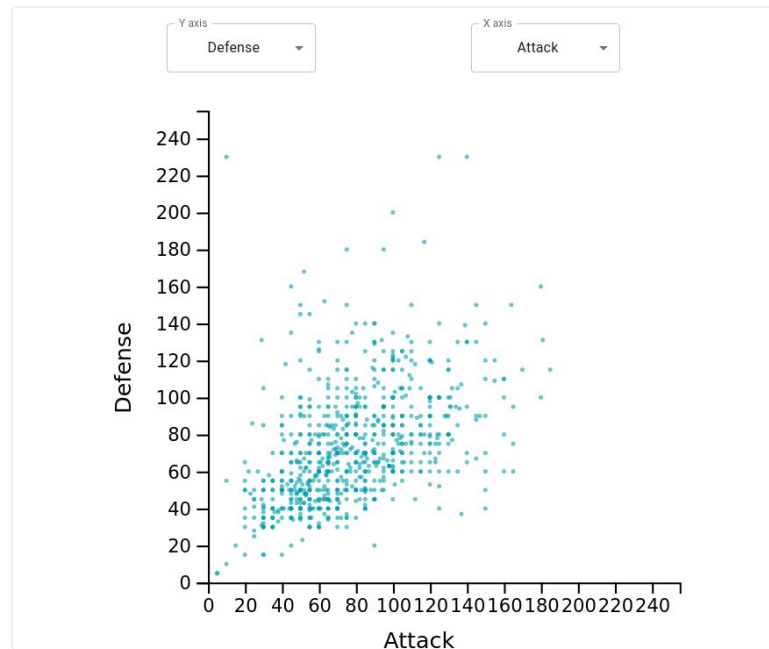
[SELECT FOR COMPARE 1](#) [SELECT FOR COMPARE 2](#)

How can the user find the most suitable Pokemon based on the types and/or stats?

Type Relation

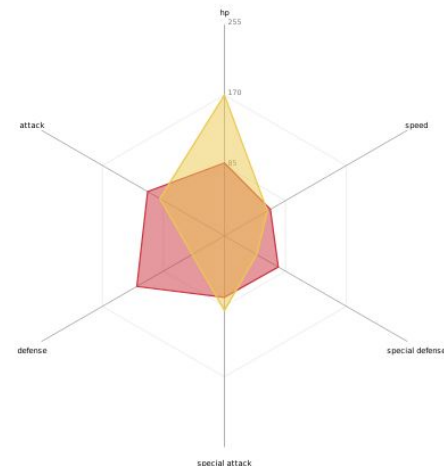


Stats Relation



How can the user compare information about 2 Pokemon in order to decide which one fits its team better?

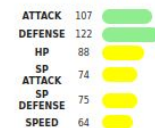
Pokemon Comparison



Chesnaught #652



Pokemon Stats



Type Weaknesses

Bug	Dar	Dra	Ele	Fal	Fig	Fir	Fly	Gho
1	1/4	1	1/4	2	1	2	1	1
Gra	Gro	Ice	Nor	Pol	Psy	Roc	Ste	Wat
1/4	1/4	2	1	2	2	1/4	1	1/4

ADD TO TEAM

Wailord #321



Pokemon Stats



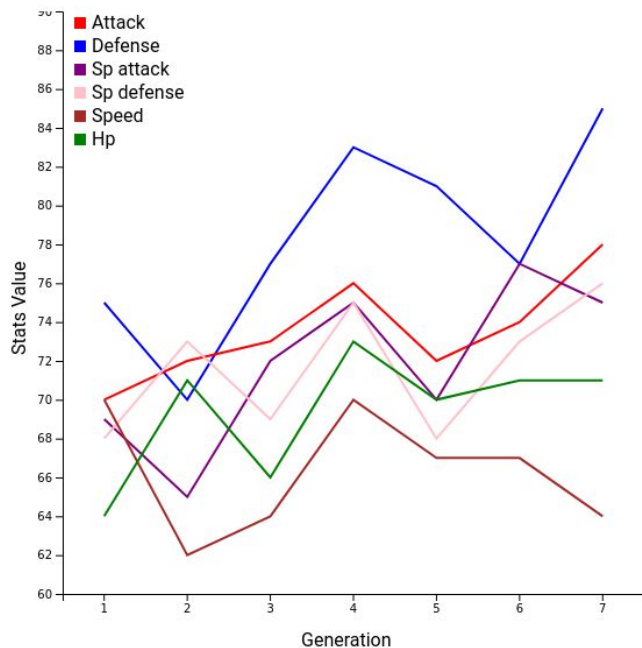
Type Weaknesses

Bug	Dar	Dra	Ele	Fal	Fig	Fir	Fly	Gho
1	1	1	2	1	1	1/4	1	1
Gra	Gro	Ice	Nor	Pol	Psy	Roc	Ste	Wat
2	1	1/4	1	1	1	1	1/4	1/4

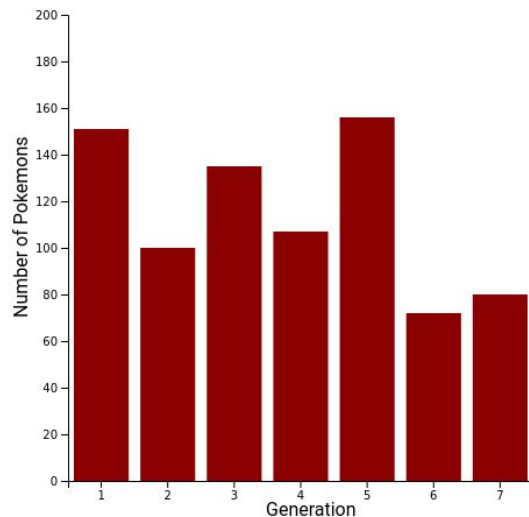
ADD TO TEAM

How can the user understand and see the differences between Pokemon games and the characteristics of those Pokemon across the games that they are inserted into?

Pokemon Stats Tendencies

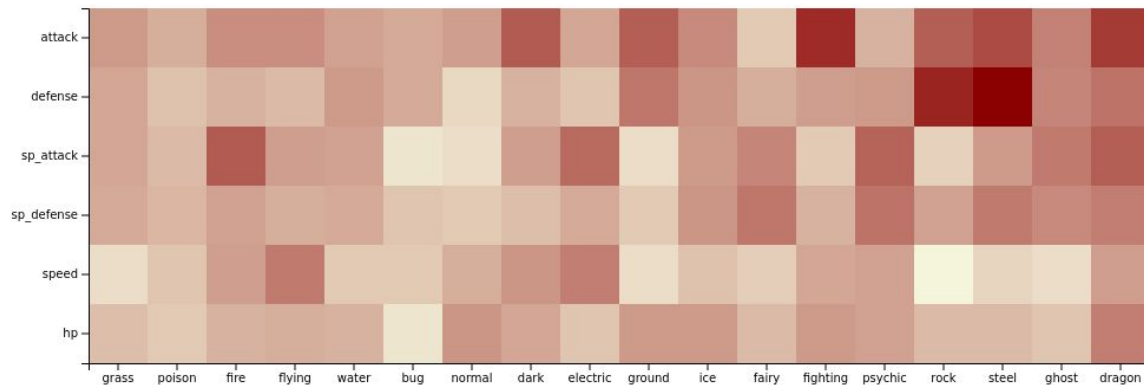


Generation Statistics

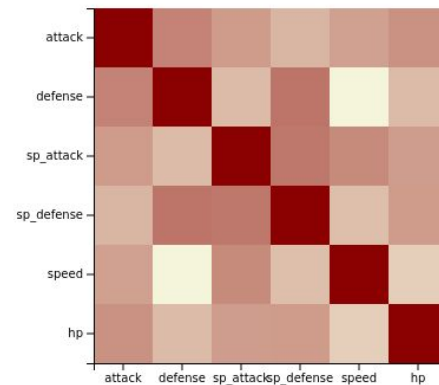


How can the user understand the relation between Pokemon and their types? How can stats be related with their respective types? And how can stats be related with themselves?

Pokemon Stats per Type Correlation



Pokemon Stats Correlation



Demo