

Exploring the World of Pokémon: Insights from Gen 1

IST 719-Information Visualization
Sagarika Shinde

The Story

Generation 1 Pokémon set the foundation for a franchise loved by millions worldwide. This analysis uncovers fascinating patterns in type distributions, evolution dynamics, and battle stats, offering strategic insights for trainers and fans. Through visualizations, we reveal the power progression of iconic Pokémon and their defining characteristics.

The Motivation

This poster is for Pokémon enthusiasts, competitive players, and data science practitioners interested in blending analytics with gaming. Trainers can use these insights to build stronger teams, while analysts can explore how storytelling and data intersect in a nostalgic cultural phenomenon.

The Question

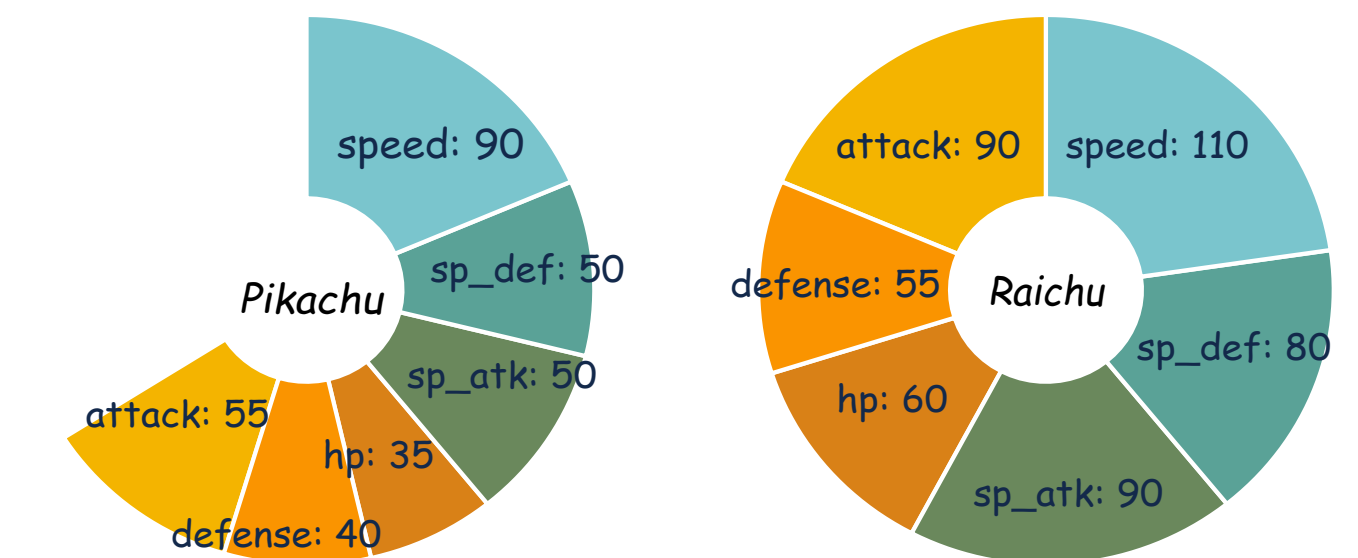
How do base stats and abilities vary across Pokémon evolution lines, and what insights do they provide about battle strategy and type diversity?

Data Description

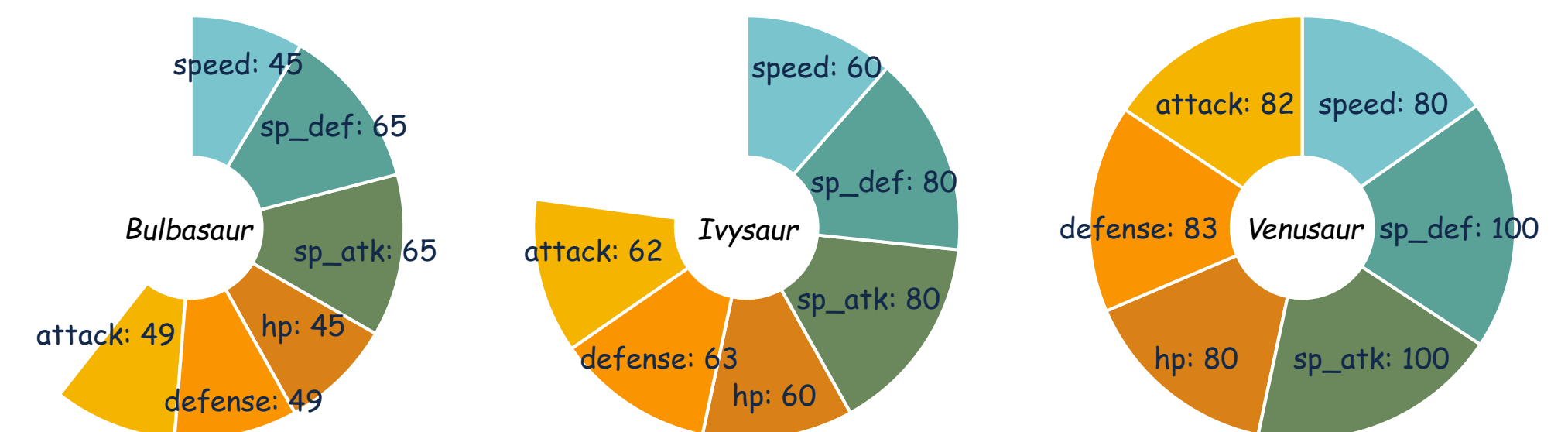
The dataset contains 1025 rows and 29 columns with details about Pokémon from Generations 1 to 9, having attributes like types, stats (HP, Attack, Defense, etc.), abilities. Data was cleaned to focus on Generation 1 Pokemon. The dataset was sourced from Kaggle, where the author extracted the data by web scraping the pokemon database website.



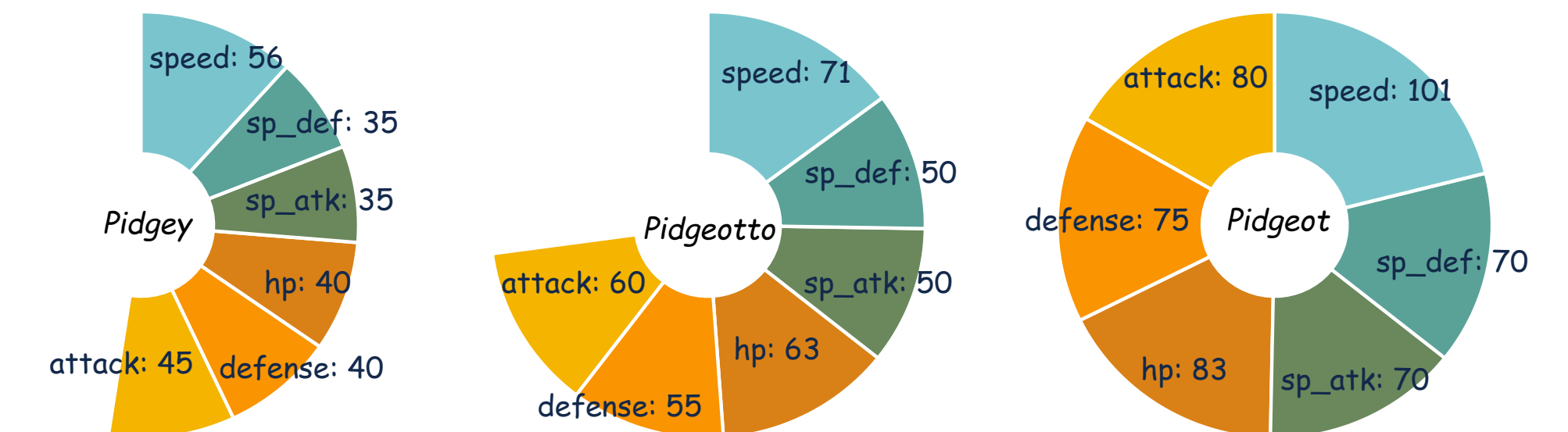
From Sparks to Thunderbolts: Pikachu's Electrifying Evolution



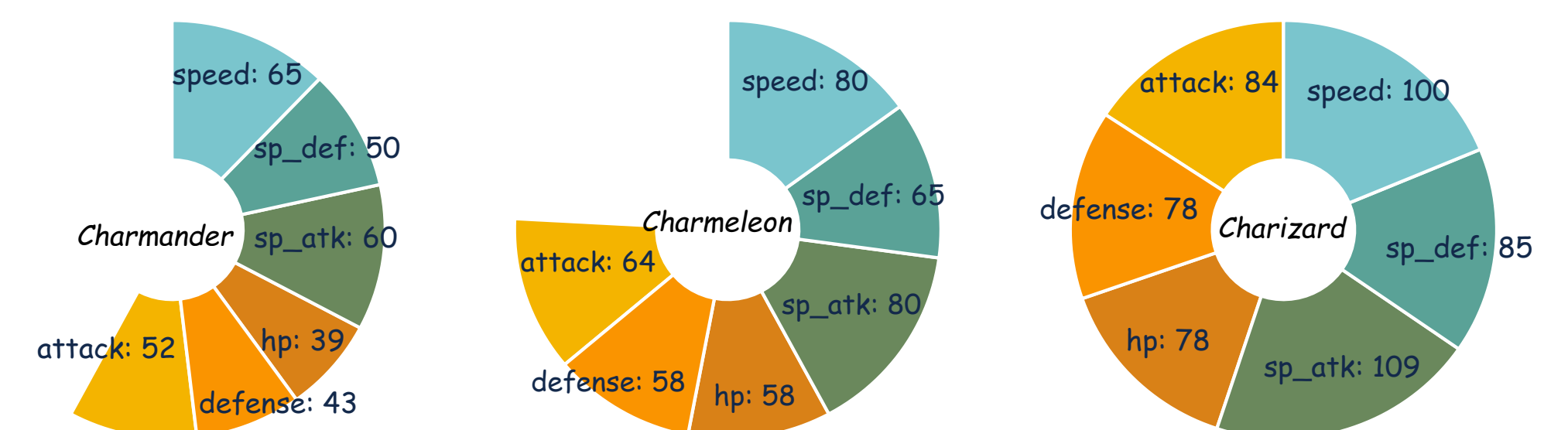
From Seedling to Beast: The Evolutionary Powerhouse of Bulbasaur



Wings of Fury: The Rise of Pidgey to Pidgeot



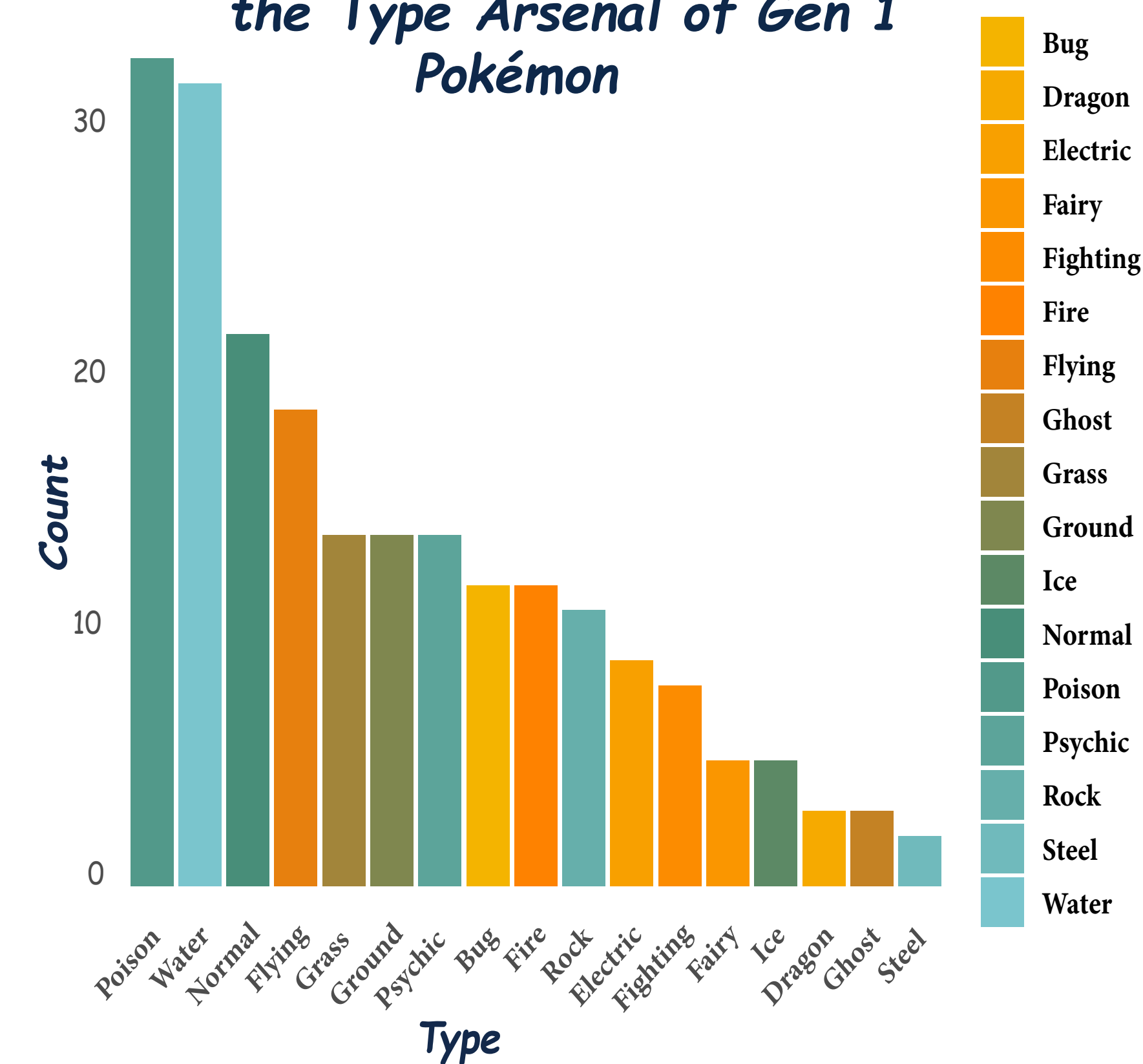
Fanning the Flames: The Meteoric Rise of Charmander to Charizard



Sources

Data Source: <https://www.kaggle.com/datasets/guavocado/pokemon-stats-1025-pokemons>
R packages: ggplot2 | dplyr | readr | tidyr | packcircles

A Rainbow of Power: Exploring the Type Arsenal of Gen 1 Pokémon



Clash of Titans: Which Pokémon Types Pack the Biggest Punch?

