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Pokémon Attack and Speed Distribution
*Scatterplot Matrix

Data: Pokémon dataset
Can really be useful for
Pokémon fans to visualize
the Speed/offensive traits
of all Pokémon

Search

offensive

Slow

Fast

Defensive

$\circ$ = Pokémon
$\bullet$ = onClick-Pokémon event

$$\text{Normalized Val} = \frac{\text{speed/Attack} - \text{min}}{\text{Max} - \text{min}}$$

OR D3 extent()
function

onClick
{
  Name:
  Type:
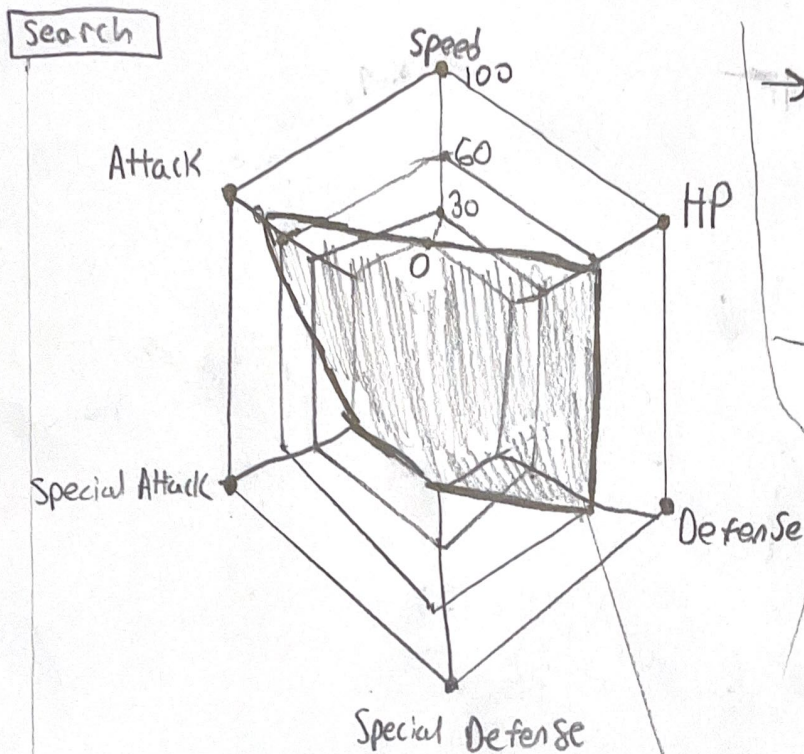 species:
  height:
  ⋮
  Speed:
  Attack:
  Defense:
  ⋮
}

"Search" functionality:
Based on Name/ID of
Pokémon

Pokémon Stats

* Radar Chart

→ Compare 2 pokémon at a time by Searching 2 ID's, radar chart will show both in different colors

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→ on a [0...100] Scale

Normalized value:
$$= \left(\frac{value}{255}\right) \times 100$$

max

Search pokémon by ID, and radar Chart will Visualize Pokémon Stats

Example pokémon with high attack, high defense

Pokémon Speed Comparisons

* Bubble Chart

Search functionality: Based on Pokémon Name/ID

```
Search
```

onClick

```
{

  Name: Deoxys
  height:
  Speed:
  Attack:
  :
  :

  }
}
```

Deoxys

Azelf

Beedrill

Sceptile

→ Display names based on size of radius

ex: too small, but (Click) will display more info.

? No particular ordering?

$$r = \sqrt{\text{Bubble area}/\pi}$$

Big r = high speed

Small r = low speed

$$O = \pi r^2$$

* Bubble area = min area + $\dfrac{\text{Speed} - \text{minSpeed}}{\text{maxSpeed} - \text{minSpeed}}$

* OR

D3 extent() function

Smallest circle size (viewable)