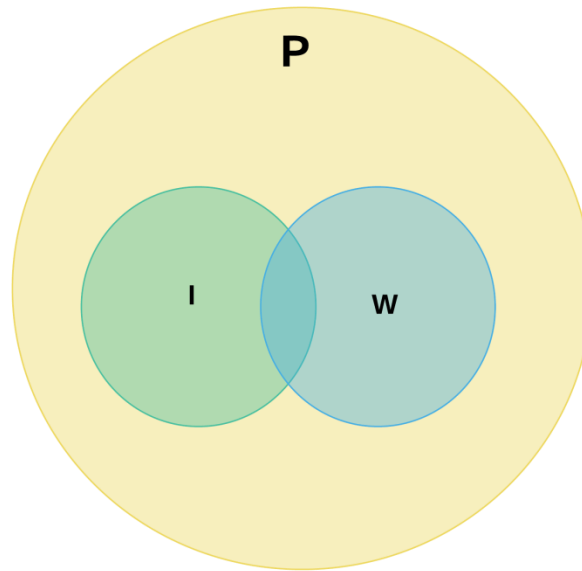


## UNIVERSAL SET

U

### POKEMON SET

Ian Jude J. Timbungco | October 21, 2020



$P = \{Walrein, Arctovish, Frolass, Vanilluxe, Alolan Ninetails, Lapras, Dewgong, Keldeo, Palkia, Inteleon\}$

$I = \{Walrein, Arctovish, Frolass, Vanilluxe, Alolan Ninetales\}$

$W = \{Lapras, Dewgong, Keldeo, Palkia, Inteleon\}$

$$P \supset I$$

$$P \supset W$$

$$I \cap W$$

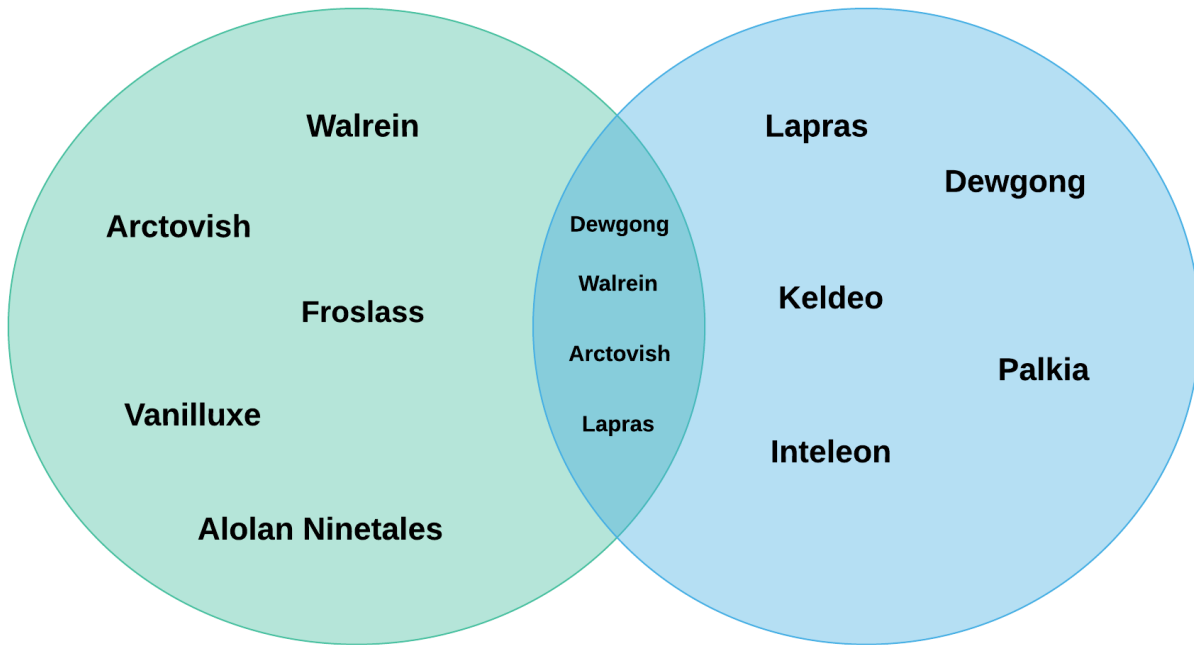
Whereas:

- P is the superset of ice type and water type Pokémon.
- I is the set of Ice-types Pokémon
- W is the set of Water-types Pokémon.

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# ICE/WATER TYPE DIAGRAM

Ian Jude J. Timbungco | October 19, 2020



$I \cap W$

$C = \{Dewgong, Walrein, Arctovish, Lapras\}$

$I/Water = C, c$

$C = \{c | \forall c \in I \cap W\}$

Whereas:

- C is the intersection set containing Pokémon having Ice/Water typing.

All ice/water types are loved by children

$\forall c \in I \cap W$

$I = \{Walrein, Arctovish, Froslax, Vanilluxe, Alolan Ninetales\}$

$I = \{i | \forall i \in I, R(i)\}$

*Ice Types* =  $I, i$

Whereas:

- $I$  is the set of Ice-types Pokémon.

All ice types have increased their critical hit- ratio.

Critical hit-ratio =  $R()$

$$\forall i \in I, R(i)$$

$W = \{Lapras, Dewgong, Keldeo, Palkia, Inteleon\}$

$W = \{w | \forall w \in W, H(w)\}$

*Water Types* =  $W, w$

Whereas:

- $W$  is the set of Water-type Pokémon.

All water types have increased their special attack.

*Increased special attack* =  $S()$

$$\forall w \in W, S(w)$$