

Idea Diagramming with Fandoms:



$P = \{\text{Baulbasaur, Torchic, Treecko, Cyndacquil, Chicorita, Totodile, Mudkip, Charmander, Squirrel, Eevee, Pickachu}\}$

$P = \{p | p \in \text{Pokemon}(p)\}$

All Pokémon's are cute.

Pokémon's, Pokémon = P, p

Being a cute Pokémon = $C()$

$\forall p \in P, C(p)$

$P = \{p | \forall p \in P, C(p)\}$

Some Pokémon's are bad.

Pokémon's, Pokémon = P, p

Bad = $B, b \leftarrow$ This is a set not a function

$\exists p \in P, p = b$



$F = \{\text{Pippin}, \text{Sam}, \text{Frodo}, \text{Gandalf}, \text{Gimli}, \text{Legolas}, \text{Aragorn}, \text{Mary}, \text{Gollum}, \text{Bilbo}\}$
 $F = \{f | f \in \text{Fellowship}(f)\}$

All men seeks to destroy the one ring.

Men's, men = M, m

Destroy the one ring = D()

$\forall m \in M, D(m)$

$M = \{m | \forall m \in M, D(m)\}$

Some men compelled by the ring.

Men's, men = M, m

Compelled by the ring = C()

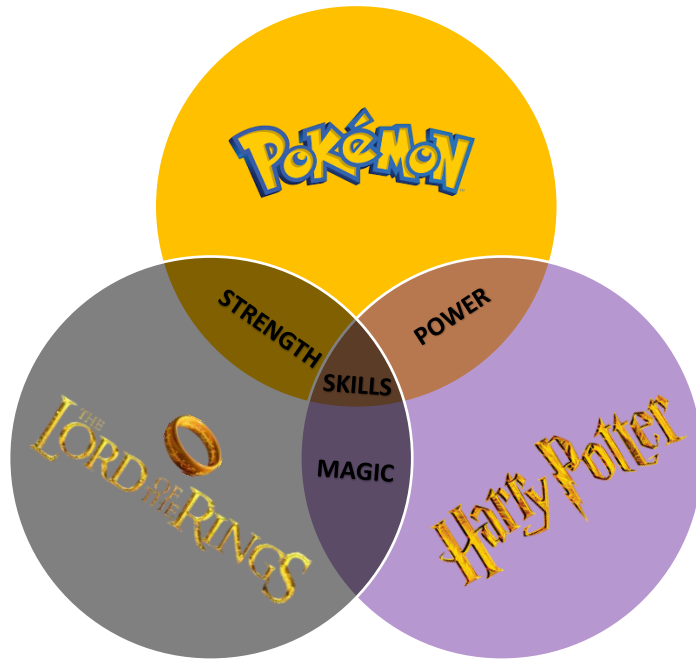
$\exists m \in M, C(m)$



$W = \{\text{Ron}, \text{Harry}, \text{Hermione}, \text{Voldemort}, \text{Dumbledore}, \text{Snape}\}$
 $W = \{w | w \in \text{Wizards}(w)\}$

All Deathaters are hate Muggle – Borns.
Deathaters, Deathater = D, d
Hated all Muggles = H()
 $\forall d \in D, H(d)$
 $D = \{d | \forall d \in D, H(d)\}$

Some Wizards are Muggle – Borns.
Wizards, Wizard = W, w
A Wizard being a Muggle – Born = M()
 $\exists w \in W, M(w)$



UNION OF SETS

$P = \{\text{Baulbasaur, Torchic, Treecko, Cyndacquil, Chicorita, Totodile, Mudkip, Charmander, Squirle, Eevee, Pickachu}\}$

$W = \{\text{Ron, Harry, Hermione, Voldemort, Dumbledore, Snape}\}$

$F = \{\text{Pippin, Sam, Frodo, Gandalf, Gimli, Legolas, Aragorn, Mary, Gollum, Bilbo}\}$

$P \cup W = \{\text{Baulbasaur, Charmander, Chicorita, Cyndacquil, Dumbledore, Eevee, Harry, Hermione, Mudkip, Pikachu, Power, Ron, Snape, Torchic, Treecko, Totodile, Voldemort}\}$

$W \cup F = \{\text{Aragorn, Bilbo, Dumbledore, Frodo, Gandalf, Gimli, Gollum, Harry, Hermione, Legolas, Mary, Magic, Pippin, Ron, Sam, Snape, Voldemort}\}$

$P \cup F = \{\text{Aragorn, Baulbasaur, Bilbo, Charmander, Cyndacquil, Chicorita, Eevee, Frodo, Gandalf, Gimli, Gollum, Legolas, Mary, Mudkip, Pickachu, Pippin, Sam, Strength, Squirtle, Totodile}\}$

INTERSECTION OF SETS

$P \cap F = \{\text{Strength}\}$

$F \cap W = \{\text{Magic}\}$

$W \cap P = \{\text{Power}\}$

$P \cap F \cap W = \{\text{Skills}\}$