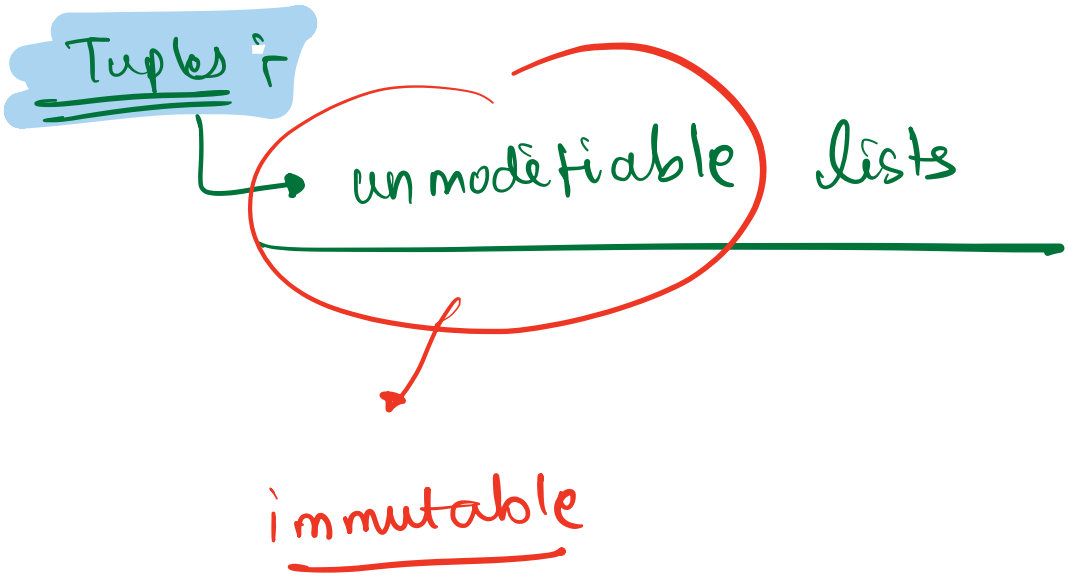
"Hello Everyone!"

Tuples and Sets


Tuples :-
unmodifiable
lists
immutable

Use-Case :-

~~NASA~~

ISRO = ["Mercury", "Venus" . . .
"Earth" . . . .]

isRO[2]

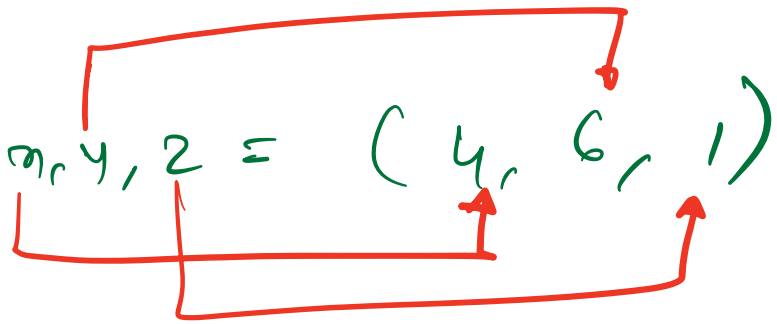
isRO[2] : "AJ's Planet"

Tuples

a = [1, 5, 7]

a = (1, 5, 7)

Circular brackets



* Unpacking

② Sets

[1, "AJ"] → set is a unique collection of elements

( )

{ }

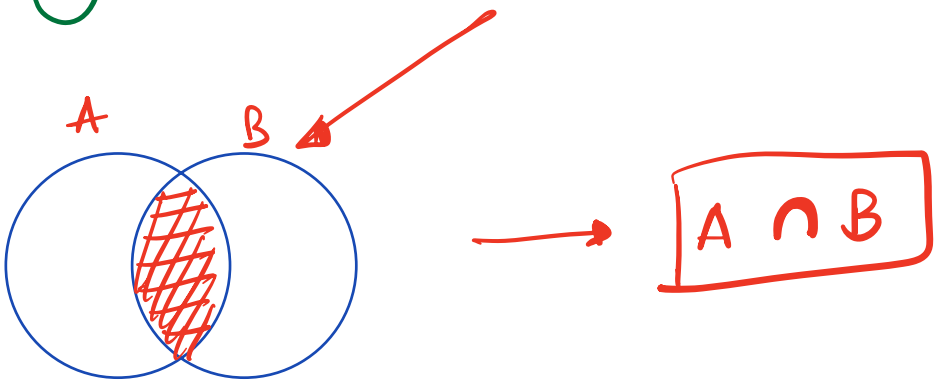
Dict → { }

→ set can store

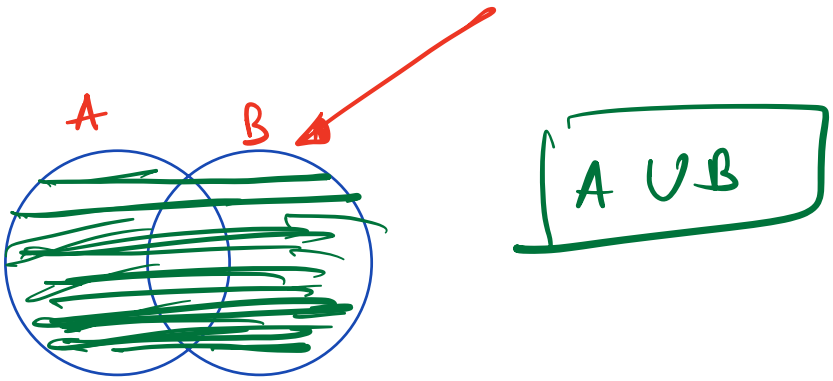
Imp : Sets are NOT ordered in Python.

Venn Diagram → Set operations

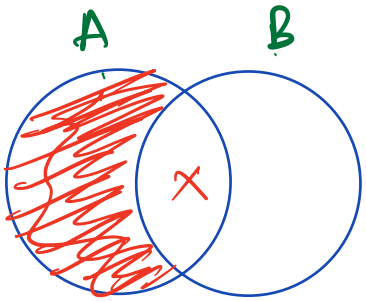
① Intersection (∩)



② Union (∪)



③ Set Difference

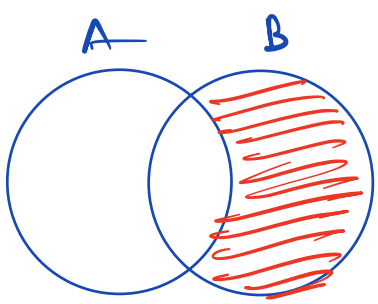


A − B

all the elements that are in A But NOT in B

$A - B = A - (A \cap B)$

B − A ⟶ in B But NOT in A



$A = \{1, 2\}$

$B = \{3, 5, 1, 2\}$

?

$A - B = B - A$ ✗

$A - B \longrightarrow \{1\}$

$B - A \Longrightarrow \{3, 5\}$

$A - B \neq B - A$

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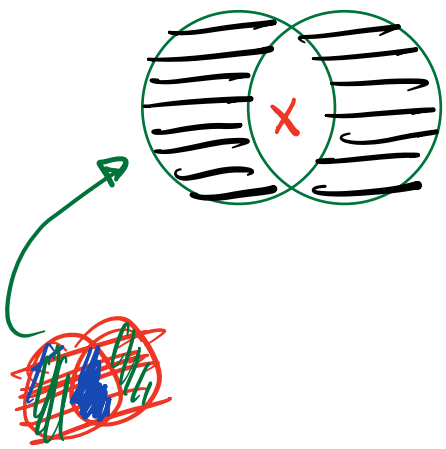
(5) Symmetric Difference

$A \triangle B$ → All elems in Union But not in Common



$\Rightarrow (A - B) \cup (B - A)$

$A \cup B - A \cap B$