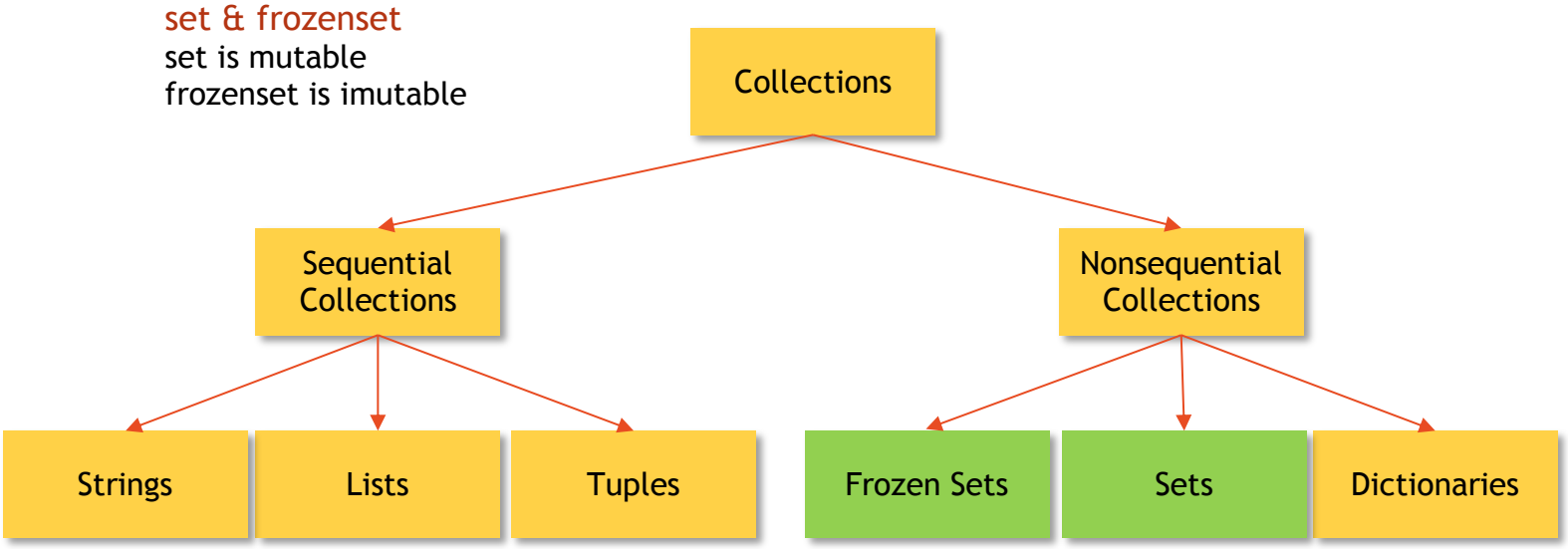
set & frozenset

set is mutable
frozenset is imutable



Creating a Set

- S = {1, 2, 3, 4}
- S = {x for x in range(1, 5)} → {1, 2, 3, 4}
- No literal for the empty set → {} is a dictionary
- S = set() → An empty set

Adding elements to a Set

- S.add(item)

Removing elements to a Set

- S.remove(item) → error of item ∉ S
- S.discard(item) → no error when item ∉ S
- S.pop() → removes and returns arbitrary element. Error if S = {}

Set operations

- Union |
- Intersection &
- Difference -
- Symmetric Difference ^

Predicates on Sets

- Is equal / not equal == and !=
- Is subset <=
- Is superset >=
- Is disjoint .isdisjoint

See 05-09-sets.py

Frozen Sets

An immutable set
See 05-10-frozensets.py