

## 4. Sets, Dictionaries

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### SET

$S = \{ \}$

- iterable
  - heterogeneous datatypes allowed
  - not indexable
  - only hashable values allowed
- hash function  $\rightarrow$  only applied on immutable types.  
 $\Rightarrow$  set elements should be immutable

### Set functions

- `sum(set)`
- `len(set)`
- `max(set)`
- `min(set)`
- `any(set)`  
Returns True if any value of set is True
- `all(set)`  
Returns True only if all values of set are True
- `set_name.add(value)`

Adds a single value to the set

- `set_name.update(iterable)`  
Adds each element of the iterable as an element of the list