

Dictionaries

- A Dictionary is an unordered and indexed collection of changeable elements
- A Dictionary is created with curly braces with keys and values `dict1 = {"name": "Paul", "age": 25}`
- A Dictionary can be created with a constructor `newdict = dict(name="Paul", age=25)`
- A value in a Dictionary can be accessed by its key `x = dict1["name"]` `x = dict1.get("name")`
- Add or change a value in a Dictionary `dict1["class"] = "C1"`
- Number of elements in the Dictionary `len(dict1)`
- Remove an element from a Dictionary `dict1.pop("name")` `del dict1["name"]`
- Delete a Dictionary `del dict1`
- Check if an element exists in a Dictionary `if "name" in dict1 :`
`print("name is in the dictionary")`
- The elements of a Dictionary can be accessed with a for loop

keys	values	values	keys and values
<code>for key in dict1:</code> <code>print(key)</code>	<code>for key in dict1:</code> <code>print(dict1[key])</code>	<code>for value in dict1.values():</code> <code>print(value)</code>	<code>for key,value in dict1.items():</code> <code>print(key,value)</code>

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- Dictionary built-in methods:

<code>dict1.clear()</code>	Removes all the elements from the dictionary
<code>dict1.copy()</code>	Returns a copy of the dictionary
<code>dict.fromkeys(keys,value)</code>	Returns a dictionary with the keys and the same value
<code>dict1.get(key)</code>	Returns the value of the key
<code>dict1.items()</code>	Returns a List with the Tuples key,value
<code>dict1.keys()</code>	Returns a List with the keys
<code>dict1.popitem()</code>	Removes and returns the last inserted element
<code>dict1.setdefault(key, value)</code>	Returns the value of the key, if it exists, or inserts the key,value
<code>dict1.update({key:value, ...})</code>	Updates the dictionary with the pairs key,value
<code>dict1.values()</code>	Returns a List of the values