

Cheat Sheet: Python Data Structures Part-2

Dictionaries

Package/Method	Description	Code Example
	Creating a Dictionary A dictionary is a built-in data type that represents a collection of key-value pairs. Dictionaries are enclosed in curly braces {}.	<div>Example:</div> <pre>1. {} 2. {} 3. {}</pre> <div>Code Example</div> <pre>1. dict_name = {} #Creates an empty dictionary 2. person = {"name": "John", "age": 30, "city": "New York"}</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. value = dict_name[key_name]</pre> <div>Copy</div> <div>Example:</div> <pre>1. {} 2. {} 3. name = person["name"] 4. age = person["age"]</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. dict_name[key] = value</pre> <div>Copy</div>
Accessing Values	You can access the values in a dictionary using their corresponding keys.	<div>Example:</div> <pre>1. {} 2. {} 3. name = person["name"] 4. age = person["age"]</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. dict_name[key] = value</pre> <div>Copy</div>
Add or modify	Inserts a new key-value pair into the dictionary. If the key already exists, the value will be updated; otherwise, a new entry is created.	<div>Example:</div> <pre>1. {} 2. {} 3. person["city"] = "Tokyo" # A new entry will be created 4. person["city"] = "Chicago" # Update the existing value for the same key</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. del dict_name[key]</pre> <div>Copy</div> <div>Example:</div> <pre>1. {} 2. del person["country"]</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. dict_name.update(key: value)</pre> <div>Copy</div>
del	Removes the specified key-value pair from the dictionary. Raises a <code>KeyError</code> if the key does not exist.	<div>Example:</div> <pre>1. {} 2. {} 3. del person["country"]</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. dict_name.update(key: value)</pre> <div>Copy</div>
update()	The <code>update()</code> method merges the provided dictionary into the existing dictionary, adding or updating key-value pairs.	<div>Example:</div> <pre>1. {} 2. {} 3. person.update({"Profession": "Doctor"})</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. dict_name.clear()</pre> <div>Copy</div>
clear()	The <code>clear()</code> method empties the dictionary, removing all key-value pairs within it. After this operation, the dictionary is still accessible and can be used further.	<div>Example:</div> <pre>1. {} 2. {} 3. grades.clear()</pre> <div>Copy</div>
key existence	You can check for the existence of a key in a dictionary using the <code>in</code> keyword.	<div>Example:</div> <pre>1. {} 2. {} 3. if "name" in person: 4. print("Name exists in the dictionary.")</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. new_dict = dict_name.copy()</pre> <div>Copy</div>
copy()	Creates a shallow copy of the dictionary. The new dictionary contains the same key-value pairs as the original, but they remain distinct objects in memory.	<div>Example:</div> <pre>1. {} 2. {} 3. new_person = person.copy() 4. new_person = dict(person) # Another way to create a copy of dictionary</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. new_list = list(dict_name.items())</pre> <div>Copy</div>
keys()	Retrieves all keys from the dictionary and converts them into a list. Useful for iterating or processing keys using list methods.	<div>Example:</div> <pre>1. {} 2. {} 3. person_keys = list(person.keys())</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. values_list = list(dict_name.values())</pre> <div>Copy</div>
values()	Extracts all values from the dictionary and converts them into a list. This list can be used for further processing or analysis.	<div>Example:</div> <pre>1. {} 2. {} 3. person_values = list(person.values())</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. items_list = list(dict_name.items())</pre> <div>Copy</div>
items()	Retrieves all key-value pairs as tuples and converts them into a list of tuples. Each tuple consists of a key and its corresponding value.	<div>Example:</div> <pre>1. {} 2. {} 3. info = list(person.items())</pre> <div>Copy</div>

Sets

Package/Method	Description	Code Example
		<div>Syntax:</div> <pre>1. {}</pre> <div>Copy</div> <div>Example:</div> <pre>1. {} 2. fruits.add("mango")</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. set_name.clear()</pre> <div>Copy</div>
add()	Elements can be added to a set using the <code>add()</code> method. Duplicates are automatically removed, so sets only store unique values.	<div>Example:</div> <pre>1. {} 2. fruits.add("mango")</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. set_name.clear()</pre> <div>Copy</div>
clear()	The <code>clear()</code> method removes all elements from the set, resulting in an empty set. It updates the set in-place.	<div>Example:</div> <pre>1. {} 2. fruits.clear() # Removes all elements</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. new_set = set_name.copy()</pre> <div>Copy</div>
copy()	The <code>copy()</code> method creates a shallow copy of the set. Any modifications to the copy won't affect the original set.	<div>Example:</div> <pre>1. {} 2. new_fruits = fruits.copy()</pre> <div>Copy</div>
Defining Sets	A set is an unordered collection of unique elements. Sets are enclosed in curly braces {} . They are useful for storing distinct values and performing set operations.	<div>Example:</div> <pre>1. {} 2. {} 3. fruits_set = set() # Creating an empty set 4. fruits_set = {"Apple", "Banana", "Mango"}</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. {} 3. set_name.discard(element)</pre> <div>Copy</div>
discard()	Use the <code>discard()</code> method to remove a specific element from the set. Ignores if the element is not found.	<div>Example:</div> <pre>1. {} 2. fruits.discard("Apple")</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. {} 3. is_subset = set1.issubset(set2)</pre> <div>Copy</div>
issubset()	The <code>issubset()</code> method checks if the current set is a subset of another set. It returns <code>True</code> if all elements of the current set are present in the other set, otherwise <code>False</code> .	<div>Example:</div> <pre>1. {} 2. {} 3. is_subset = fruits.issubset(vegetables)</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. {} 3. is_superset = not issubset(set2)</pre> <div>Copy</div>
issuperset()	The <code>issuperset()</code> method checks if the current set is a superset of another set. It returns <code>True</code> if all elements of the other set are present in the current set, otherwise <code>False</code> .	<div>Example:</div> <pre>1. {} 2. {} 3. is_superset = not issubset(fruits)</pre> <div>Copy</div> <div>Syntax:</div> <pre>1. {} 2. {} 3. removed_element = set_name.pop()</pre> <div>Copy</div>
pop()	The <code>pop()</code> method removes and returns an arbitrary element from the set. It raises a <code>KeyError</code> if the set is empty. Use this method to remove elements when the order doesn't matter.	<div>Example:</div> <pre>1. {} 2. {} 3. removed_fruit = fruits.pop()</pre> <div>Copy</div>

`remove()` Use the 'remove()' method to remove a specific element from the set. Return a 'KeyError' if the element is not found.

`Set Operations` Perform various operations on sets: 'union', 'intersection', 'difference', 'symmetric difference'.

`update()` The 'update()' method adds elements from another iterable into the set. It maintains the uniqueness of elements.



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