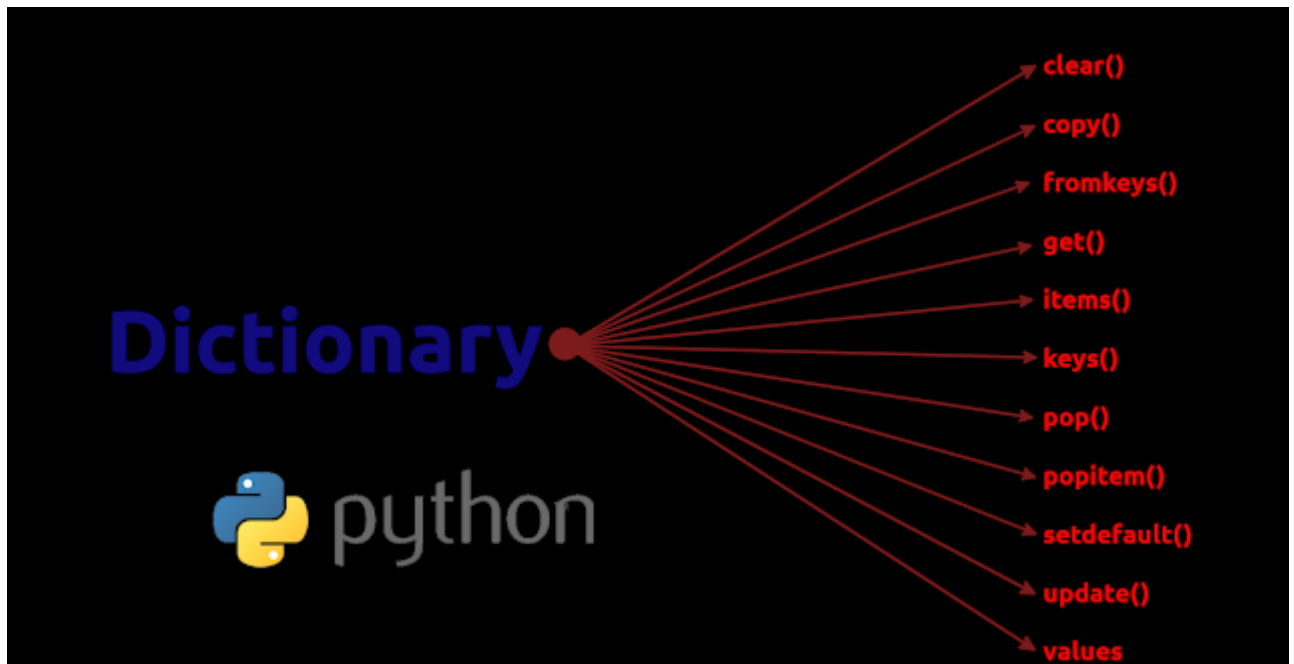


# Dictionary Methods in Python



Dictionary Methods in Python

**Python has build in methods to work with dictionaries.**

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**clear()** *dictionary.clear()*

Removes all the elements from the dictionary

```
phonebook = {'John': '000001', 'Peter': '000002', 'Rachel': '000003'}  
phonebook.clear()  
print(phonebook)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com  
{}
```

**copy()** *dictionary.copy()*

Returns a copy of the dictionary

```
mydict= {'key1': 0, 'key2': 0, 'key3': 0}  
newdict= mydict.copy()  
print(newdict)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com  
{'key1': 0, 'key2': 0, 'key3': 0}
```

**fromkeys()** *dict.fromkeys(keys, value)*

Returns a dictionary with the specified keys and value

```
key = ('key1', 'key2', 'key3')  
value = 0  
mydict= dict.fromkeys(key, value)  
print(mydict)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com  
{'key1': 0, 'key2': 0, 'key3': 0}
```

**get()** *dictionary.get(keyname, value)*

Returns the value of the specified key

```
phonebook = {'John': '000001', 'Peter': '000002', 'Rachel': '000003'}  
number = phonebook.get('Peter')  
print(number)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com  
000002
```

**items()** *dictionary.items()*

Returns a list containing a tuple for each key value pair

```
phonebook = {'John': '000001', 'Peter': '000002', 'Rachel': '000003'}  
x = phonebook.items()  
print(x)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com  
dict_items([('John', '000001'), ('Peter', '000002'), ('Rachel', '000003')])
```

**keys()** *dictionary.keys()*

Returns a list containing the dictionary's keys

```
phonebook = {'John': '000001', 'Peter': '000002', 'Rachel': '000003'}  
x = phonebook.keys()  
print(x)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com  
dict_keys(['John', 'Peter', 'Rachel'])
```

**pop()** *dictionary.pop(keyname, defaultvalue)*

Removes the element with the specified key

```
phonebook = {'John': '000001', 'Peter': '000002', 'Rachel': '000003'}  
phonebook.pop("John")  
print(phonebook)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com  
{'Peter': '000002', 'Rachel': '000003'}
```

**popitem()** *dictionary.popitem()*

Removes the last inserted key-value pair

```
phonebook = {'John': '000001', 'Peter': '000002', 'Rachel': '000003'}  
phonebook.popitem()  
print(phonebook)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com  
{'John': '000001', 'Peter': '000002'}
```

**setdefault()** *dictionary.setdefault(keyname, value)*

Returns the value of the specified key. If the key does not exist: insert the key, with the specified value

```
phonebook = {'John': '000001', 'Peter': '000002', 'Rachel': '000003'}  
s= phonebook.setdefault('Rachel')  
print(s)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com  
000003
```

If the key doesn't exist setdefault() will insert the key with value NONE

```
phonebook = {'John': '000001', 'Peter': '000002', 'Rachel': '000003'}  
s= phonebook.setdefault('Marcin')  
print(phonebook)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com  
{'John': '000001', 'Peter': '000002', 'Rachel': '000003', 'Marcin': None}
```

You can also add the key with value if doesn't exist.

```
phonebook = {'John': '000001', 'Peter': '000002', 'Rachel': '000003'}  
s= phonebook.setdefault('Marcin', 1234567)  
print(phonebook)
```

```
/usr/bin/python3.8 https://viteac.blogspot.com
```

```
{'John': '000001', 'Peter': '000002', 'Rachel': '000003', 'Marcin': 1234567}
```

**update()** *dictionary.update(iterable)*

Updates the dictionary with the specified key-value pairs

```
phonebook = {'Name': 'John', 'PhoneN0': '000002'}  
phonebook.update({'Email': 'johnseamail@longjohn.com'})  
print(phonebook)  
  
/usr/bin/python3.8 https://viteac.blogspot.com  
{'Name': 'John', 'PhoneN0': '000002', 'Email': 'johnseamail@longjohn.com'}
```

**values()** *dictionary.values()*

Returns a list of all the values in the dictionary

```
phonebook = {'Name': 'John', 'PhoneN0': '000002', 'Email': 'johnseamail@longjohn.com'}  
x = phonebook.values()  
print(x)  
  
/usr/bin/python3.8 https://viteac.blogspot.com  
dict_values(['John', '000002', 'johnseamail@longjohn.com'])
```