

## Dictionnaire

### Déclaration:

```
> user = { "name": "Safabi",  
           "age": 19,  
           "sex": "M",  
           "skills": ["Html", "css"]  
         }
```

```
> user = dict()
```

```
> user = { }
```

- Dic key need to be immutable (list not allowed)
- Dic value : all types
- key must be unique.

### Access:

```
> user["name"]  
Safabi
```

```
> user["name"][0]  
H
```

### Fonctions:

- > len(d) # nbre elements
- > min(d) # plus petit clé
- > max(d) # plus grand clé
- > del d[i] # supprimer element associé à clé i
- > list(d) # retourner list des clés

## Dictionnaire Methodes

get():

> d.get (key, value)

↑ option, value retourner si key ∃  
Default value: none.  
↑ required, the key of item you want to return

```
> car = { "Brand" : "Ford",  
          "model" : "Mustang",  
          "year" : 1964  
        }
```

```
> x = car.get("model")  
> print(x)  
Mustang.
```

items():

→ No parameters

→ return view object, list of key-value pairs as Tuple.

> d.items()

```
> car = { "brand" : "Ford", "model" : "Mustang", "year" : 1964 }
```

```
> x = car.items()
```

```
dict_items([('brand', 'Ford'), ('model', 'Mustang'), ('year', 1964)])
```

```
> list(x)[0] # return Tuple.  
('brand', 'Ford')
```



**keys()** :

- no parameter.
- return view object, keys as a list

> d.keys()  
dict\_keys(['brand', 'model', 'color'])

> list(d.keys())[0]  
brand

**values()** :

- no parameters
- return view object. values as a list

> d.values()  
dict\_values(['Ford', 'mustang', 1964])

> list(d.values())[0]  
Ford

**clear()** :

- no parameter.
- remove all items from a dict

> d.clear()  
none

**comparaison deux dictionnaires**

- utiliser **is** et **not is** so, n'est  $\neq$

update():

> d.update(iterable)

- insert specified items to the Dictionary
- parameter; iterable: a Dictionary or iterable object with key-value pair

> car.update({"color": "white"})

copy():

> d.copy()

- return a shallow copy of a specified Dictionary.
- no parameter.

> car.copy()

setDefault():

> d.setdefault(keyname, value)

- return the value of the item with the specified key.  
if key  $\nexists$ , insert the key with the value

keyname: required, the key of item.

value: optional. if key exist this parameter no effect  
default value: none.

> car.setdefault("color", "white")



fromkeys() :

> d.fromkeys(keys, value)

→ return a dictionary with the specified keys and specified value.

→ keys : iterable for new dict, required.  
value : optional, the value for all keys  
default value : none.

> n = ('key1', 'key2', 'key3')

> d.fromkeys(n)  
{'key1': none, 'key2': none}

pop() :

> d.pop(keyname, default value)

→ remove specified item from dict.  
return de value to remove.

→ keyname : required, the key to value removed.  
→ default value : optional, A value to return if key \$  
if key \$ at this parameter no specified  
return error.

popitem() :

> d.popitem()

→ remove the last inserted item  
return key-value as Tuple.  
→ no parameters