



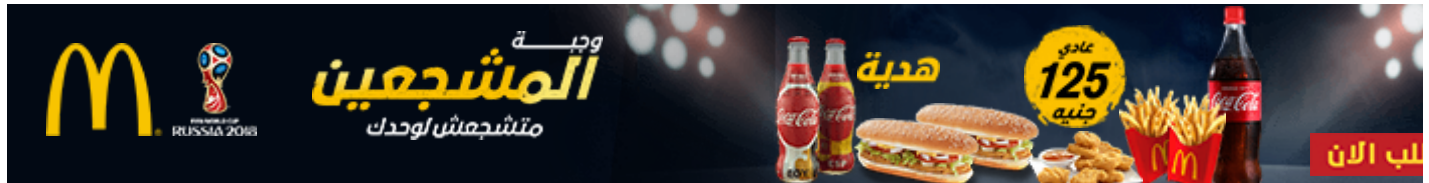
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Python Dictionaries

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Dictionary

A dictionary is a collection which is unordered, changeable and indexed. In Python dictionaries are written with curly brackets, and they have keys and values.

Example

Create and print a dictionary:

```
thisdict = {  
    "apple": "green",  
    "banana": "yellow",  
    "cherry": "red"  
}  
print(thisdict)
```

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Example

Change the apple color to "red":

```
thisdict = {  
    "apple": "green",  
    "banana": "yellow",  
    "cherry": "red"  
}  
thisdict["apple"] = "red"  
print(thisdict)
```

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The dict() Constructor

It is also possible to use the `dict()` constructor to make a dictionary:

Example

```
thisdict = dict(apple="green", banana="yellow", cherry="red")  
# note that keywords are not string literals  
# note the use of equals rather than colon for the assignment  
print(thisdict)
```

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Adding Items

Adding an item to the dictionary is done by using a new index key and assigning a value to it:

Example

```
thisdict = dict(apple="green", banana="yellow", cherry="red")
thisdict["damson"] = "purple"
print(thisdict)
```

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Removing Items



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Any item must be done using the `del()` function in python:

```
dict(apple="green", banana="yellow", cherry="red")
del(thisdict['banana'])
print(thisdict)
```


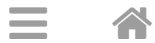
Length of a Dictionary

The `len()` function returns the size of the dictionary:

```
len(dict(apple="green", banana="yellow", cherry="red"))
# 3
```

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