Python Dictionairies Cheat Sheet

by Nouha_Thabet via cheatography.com/103894/cs/21404/

Dictionary

A dictionary is changeable and indexed like a list and unordred like a set. A dictionairy contains keys and values.

Dictionary example

```
Car = {
        " bra nd": " For d",
        " mod el": " Foc us",
        " yea r": 2013
 }
 print(Car)
 >>> {'b rand': 'Ford', 'model': 'Focus', 'year': 201
3}
```

The dict() Constructor

```
thisdict = dict(b ran d="F ord ", model= " Foc us", yea
r=2013)
```

Accessing Items

Example 1

```
x = Car["mo del "]
```

Example 2

```
x = Car.ge t("m ode l")
```

Change Values

```
Car["ye ar"] = 2019
```

Check if Key Exists

Check if "year" is present in the dictionary:

```
if " yea r" in Car:
         pri nt( "Yes, 'year' is one of the keys in the Car dictio -
nar y")
```

Dictionary Length

```
print( len (Car))
 >>> 3
```

Adding Items

```
Car["Co mbined MPG"] = 32
```

Removing Items

```
Car.po p("y ear ")
```

The `pop()` method removes the item with the specified key name

```
Car.po pitem()
```

The `popitem()` method removes the last inserted item

```
del Car["ye ar"]
```

The `del` keyword removes the item with the specified key name

Delete a Dictionary

```
del Car
 print( Cars) #this will cause an
os
```

Return an Empty Dictionary

```
Car.cl ear()
```

Copy a Dictionary

Example 1

```
CarCopy = Car.copy()
```

Example 2

```
CarCopy = dict(Car)
```

Nested Dictionaries

```
Cars = {
          " Car 1":{
            "brand":"Ford",
            " mod el": " Foc us"
           },
          " Car 2":{
            "brand":"Fiat",
            " mod el": " Pun to"
           }
    }
```

Create a nested dictionary from two existing dictionairies.

```
Car1 = {
        " bra nd": " For d",
        " mod el": " Foc us"
 }
 Car2 = {
        " bra nd": " Fia t",
        " mod el": " Pun to"
 }
 Cars = {
        " Car 1": Car1,
        " Car 2": Car2
 }
```



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