Cheatography

datastructure Cheat Sheet by hiall via cheatography.com/121789/cs/22424/

tuple

```
A tuple is a collection which is
ordered and unchangeable
tuple = ("apple", "banana", "-
cherry", "orange", "kiwi", "mel-
on", "mango")
print(thistuple)
print(thistuple[1]) =>"banana"
print(thistuple[-1]) =>"mango"
print(thistuple[2:5]) =>"cherry
... kiwi"
print(thistuple[-4:-1]) =>('or-
ange', 'kiwi', 'melon')
-----convert----
x = ("apple", "banana", "che-
rry")
y = list(x)
y[1] = "kiwi"
x = tuple(y)
-----loop-----
thistuple = ("apple", "banana",
"cherry")
for x in thistuple:
print(x)
-----test-----
thistuple = ("apple", "banana",
"cherry")
if "apple" in thistuple:
 print("Yes, 'apple' is in the
fruits tuple")
-----len-----
thistuple = ("apple", "banana",
"cherry")
print(len(thistuple))
-----del-----
thistuple = ("apple", "banana",
"cherry")
del thistuple
-----jointupl-
```

tuple (cont)

```
tuple1 = ("a", "b", "c")
tuple2 = (1, 2, 3)
tuple3 = tuple1 + tuple2
.....
thistuple = (1, 3, 7, 8, 7, 5,
4, 6, 8, 5)
x = thistuple.count(5) =>nb of
repetiton of 5
x = thistuple.index(8)=>3 is the
first location of 8
```

sets

```
A set is a collection which is
unordered and unindexed
thisset = {"apple", "banana", "-
cherry"}
print(thisset)
for x in thisset:
 print(x)
-----check-----
print("banana" in thisset)=>true
or false
 -----add-----
thisset.add("orange")
thisset.update(["orange", "man-
go", "grapes"])=>add more than
one
-----len-----
print(len(thisset))
----remove-----
. . . . . . . . . . . . .
thisset.remove("banana")
or
thisset.discard("banana")
```

sets (cont)

```
-----pop-----
x = thisset.pop() => remove the
last elet
----clear-----
. . . . . . . . . . . . . .
thisset.clear() => empty the set
----del-----
del thisset
-----joinset-----
. . . . . . . . . . . . . . .
set1 = {"a", "b", "c"}
set2 = \{1, 2, 3\}
set3 = set1.union(set2)
-----update-----
set1 = {"a", "b", "c"}
set2 = \{1, 2, 3\}
set1.update(set2)=>add set2 to
set1
```

By hiall cheatography.com/hiall/

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