Cheatography

Python Lists - Part I Cheat Sheet

by Nouha_Thabet via cheatography.com/103894/cs/21336/

List

A list is a collection which is ordered and changeable. In Python lists are written with square brackets.

List Example

```
RYB_color = ["Re d","Y ell ow", " Blu e"]
 print( RYB _color)
 >>> ['R ed' ,'Y ell ow' ,'B lue']
```

Access Items

```
RYB_color = ["Re d","Y ell ow", " Blu e"]
```

```
 print( RYB _co lor[1])
 >>> 'Yellow'
```

```
 print( RYB _co lor [-2])
 >>> 'Yellow'
```

Range of Indexes

```
RYB_Se condary = ["Re d","Y ell ow", " Blu e","O ran ge", " Gre en
", " Pur ple "]
```

Example 1

```
 print( RYB _Se con dar y[1:5]
 >>> ['Y ell ow' ,'B lue ',' Ora nge ',' Green']
```

Note: Index 5 is not included.

Example 2

```
 print( RYB _Se con dar y[- 5:-2]
 >>> ['Y ell ow' ,'B lue ',' Ora nge ',' Green']
```

Note: Index -2 is not included.

Example 3

```
 print( RYB _Se con dar y[:5]
 >>> ['R ed' ,'Y ell ow' ,'B lue ',' Ora nge ',' Green']
```

Note: By leaving out the start value, the range will start at the first item.

Example 4

```
 print( RYB _Se con dar y[1:]
 >>> ['Y ell ow' ,'B lue ',' Ora nge ',' Gre en' ,'P urple']
```

Note: By leaving out the end value, the range will go on to the end of the list.

List Length

```
RYB_color = ["Re d","Y ell ow", " Blu e"]
 print( len (RY B_c olor))
 >>> 3
```

Change Item Value

```
RYB_color = ["Re d","Y ell ow", " Blu e"]
 RYB_co lor[1] = "Green"
 print( RYB _color)
 >>> ['R ed' ,'G ree n', 'Blue']
```

Add Items

```
RYB_color = ["Re d","Y ell ow", " Blu e"]
```

Using the `append()` method to append an item in the and of the list.

```
RYB_co lor.ap pen d("W hit e")
 >>> ['Red' ,'Y ell ow' ,'B lue ',' White']
```

Use the `insert()` method to add an item at the specified index.

```
RYB_co lor.in ser t(2 ,"Wh ite ")
 >>> ['Red' ,'Y ell ow' ,'W hit e', 'Blue']
```

Delete Items

```
RYB_color = ["Re d","Y ell ow", " Blu e"]
RYB_co lor.re mov e("Y ell  #remove the item " Yel l
 ow")                       w "
RYB_co lor.pop()           #remove the indicated
                            index or the last item
                            if index not specified.
                            In this case the
                            item " Blu e" will be
                            removed
del RYB_co lor[1]          #remove the item " Yel l
                           w "
del RYB_color               #delete the whole list
RYB_co lor.cl ear()        #return an empty list
```

Check if Item Exists

```
RYB_color = ["Re d","Y ell ow", Blu e"]
 if " Yel low " in RYB_color:
         print( " Yes ")
```

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