

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_color[1])
>>> 'Yellow'

print( RYB_color [-2])
>>> 'Yellow'
```

Range of Indexes

```
RYB_Secondary = ["Re d", "Y ell ow", " Blu e", "O range", " Gre en", " Pur ple "]
```

Example 1

```
print( RYB_Secondary[1:5])
>>> ['Y ell ow' , 'B lue ', ' Ora nge ', ' Green']
```

Note: Index 5 is not included.

Example 2

```
print( RYB_Secondary[-5:-2])
>>> ['Y ell ow' , 'B lue ', ' Ora nge ', ' Green']
```

Note: Index -2 is not included.

Example 3

```
print( RYB_Secondary[: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_Secondary[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 (RYB_color))
>>> 3
```

Change Item Value

```
RYB_color = ["Re d", "Y ell ow", " Blu e"]
RYB_color[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_color.append("W hit e")
>>> ['Red' , 'Y ell ow' , 'B lue ', ' White']
```

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

```
RYB_color.insert(2, "Wh ite ")
>>> ['Red' , 'Y ell ow' , 'W hit e', 'Blue']
```

Delete Items

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

```
RYB_color.remove("Y ell ow") #remove the item "Yell ow"
```

```
RYB_color.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_color[1] #remove the item "Yell ow"
```

```
del RYB_color #delete the whole list
```

```
RYB_color.clear() #return an empty list
```

Check if Item Exists

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



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