

# Python Lists - Part II & Tuples Cheat Sheet

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# Copy a List

```
RYB_color = ["Re d","Y ell ow", Blu e"]
Example 1
```

RYB Second = RYB color + Second color

Copy RYB = RYB co lor.copy()

#### Example 2

Copy RYB = list(R YB color)

### Join Two Lists

```
RYB_color = ["Re d","Y ell ow", Blu e"]
Second _color = ["Gr een " ,"Or ang e","P urp le"]
Example 1
RYB_Second = RYB_co lor.ex ten d(S eco nd_ color)
Example 2
```

#### The list() Constructor

```
RYB_color = list(( " Red " ,"Ye llo w",B lue "))
```

# Tuple

A tuple is a collection which is ordered and unchangeable. In Python tuples are written with round brackets.

# Tuple Example

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

# Access Tuple Items

Same as access list items. Please check "Access list items" in "-Python Lists - Part I" cheat sheet.

# **Change Tuple Values**

Since tuples are inchangeable, then we cannot change any value. But, we can convert a tuple to a list, change the values that we want within the list and convert the list back into a tuple.

#### Example

```
`RYB_color = ("Re d","Y ell ow", " Blu e")
L = list(R YB_ color)
L[0] = " Mag ent a"
RYB_color = tuple(X)
```

# Check if Item Exists

Same as checking item witin a list . Please check "Check if Item Exists" in "Python Lists - Part I" cheat sheet.

#### **Tuple Length**

Same as list length. Please check "List Length" in "Python Lists - Part I" cheat sheet.

# Add Items

Once a tuple is created, we cannot add items to it. Tuples are unchangeable.

# Create Tuple With One Item

To create a tuple with only one item, we have add a comma after the item, unless Python will not recognize the variable as a tuple.

```
Color = ("Wh ite ",)
```

#### Remove Items

Tuples are unchangeable, so we cannot remove items from it, but we can delete the tuple completely.

```
RYB_color = ("Re d","Y ell ow", " Blu e")
del RYB_color
```

#### Join Two Tuples

```
RYB_color = ("Re d","Y ell ow", " Blu e")
Second _color = ("Or ang e","G ree n","P urp le")
RYB Second = RYB color + Second color
```

#### The tuple() Constructor

RYB\_color = tuple(("Red","Yellow","Blue"))



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