



# Tuples - read only datatype

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## What is Tuple?

Tuple is same as the list but it is immutable.

Tuple are written with round brackets.

```
thistuple = ("apple", "banana", "cherry")
print(thistuple)
```

## Creating Tuple with One item

```
tup1 = () # this is empty tuple.
thistuple = ("apple",)
print(type(thistuple))
```

```
#NOT a tuple
thistuple = ("apple")
print(type(thistuple))
```

## Access Tuple Items

Same as List Access

```
thistuple = ("apple", "banana", "cherry")
print(thistuple[1]) # banana
```

## Change/ add/ Remove Tuples

Tuples are unchangeable, meaning that you cannot change, add, or remove items once the tuple is created.

But there are some workarounds.



Always convert tuple into `list` ⇒ if x is a tuple then write `y = list(x)`

**Convert the tuple into a list to be able to change it:**

```
x = ("apple", "banana", "cherry")
y = list(x)
y[1] = "kiwi"
x = tuple(y)

print(x)
```