

Key Concepts

This video will cover the following key concepts:

- What are tuples?
- Creating tuples
- Tuples vs Lists

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TUPLES ARE SIMILAR TO LISTS WITH THE BIG DIFFERENCE THAT YOU CANNOT CHANGE TUPLES AT ALL.

```
>>> my_info = ('Mike', 24, 'Programmer')
>>> my_info
('Mike', 24, 'Programmer')
>>> my_info[0]
'Mike'
>>> my_info[1]
24
>>> my_info[-1]
'Programmer'
>>> my_info[0] = 'Michael'
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: 'tuple' object does not support item assignment
>>>
```

As we can see in the screen, we can't change the elements of a tuple.

UNPACKING A TUPLE:

```
>>>
>>> name, age, occupation = my_info
>>> name
'Mike'
>>> age
24
>>> occupation
'Programmer'
>>>
```

CREATING A ONE ELEMENT TUPLE:

```
>>> one_element_tuple = (4,)
>>> one_element_tuple
(4,)
>>>
```

- When use tuples when we need to manage data that is kind of link together but not necessarily similar.
- In tuples de order matters for example when unpacking.