



Tuples



Complete Python 3 Bootcamp

Tuples are very similar to lists. However they have one key difference - **immutability**.

Once an element is inside a tuple, it can not be reassigned.

Tuples use parenthesis: **(1,2,3)**

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```
In [33]: t = (1,2,3)
```

```
In [34]: mylist = [1,2,3]
```

```
In [35]: type(t)
```

```
Out[35]: tuple
```

```
In [ ]: type(mylist)
```

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In [37]: len(t)

Out[37]: 3

In [38]: t

Out[38]: (1, 2, 3)

In []: |

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In [38]:

`t`

Out[38]: (1, 2, 3)

In [39]:

`t = ('one', 2)`

In []:

`t[0]`

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```
In [39]: t = ('one', 2)
```

```
In [40]: t[0]
```

```
Out[40]: 'one'
```

```
In [41]: t[-1]
```

```
Out[41]: 2
```

```
In [ ]:
```

01:47



85%

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Out[41]: 2

```
In [42]: t = ('a', 'a', 'b')
```

```
In [43]: t.count('a')
```

Out[43]: 2

```
In [ ]:
```

|

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```
In [44]: t.index('a')
```

```
Out[44]: 0
```

```
In [45]: t.index('b')
```

```
Out[45]: 2
```

```
In [ ]:
```

```
|
```


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```
In [47]: mylist
```

```
Out[47]: [1, 2, 3]
```

```
In [48]: mylist[0] = 'NEW'
```

```
In [ ]: mylist
```

Out[47]: [1, 2, 3]

In [48]: mylist[0] = 'NEW'

In [49]: mylist

Out[49]: ['NEW', 2, 3]

In []: |

In [49]: mylist

Out[49]: ['NEW', 2, 3]

In [50]: t[0] = 'NEW'

TypeError Traceback (most recent call last)
<ipython-input-50-97e4e33b36c2> in <module>()
----> 1 t[0] = 'NEW'

TypeError: 'tuple' object does not support item assignment