

7.79 - Leaflet - Tupel

July 23, 2018

0.1 Tuple

Tuples are something like a list... but are used for other purposes.

- This is about what tuples are,
- how these differ from lists
- and how to use them in Python

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

```
(1, 2, 3)
```

```
In [2]: liste = [1, 2, 3]
        liste.append(5)
        print(liste)
```

```
[1, 2, 3, 5]
```

Excursus Computer Science: Mutable (mutable) vs. Immutable (unchangeable)

- **List:** Variable data structure
- **Tuple:** Constant data structure

```
In [5]: person = ("Elvis Presley", 55)
```

```
def do_something(p):
    p[0] = "Tupac Shakur"
```

```
do_something(person)
```

```
print(person)
```

TypeError

Traceback (most recent call last)

```
<ipython-input-5-5112575af5a5> in <module>()
      4     p[0] = "Tupac Shakur"
      5
----> 6 do_something(person)
      7
      8 print(person)
```

```
<ipython-input-5-5112575af5a5> in do_something(p)
      2
      3 def do_something(p):
----> 4     p[0] = "Tupac Shakur"
      5
      6 do_something(person)
```

TypeError: 'tuple' object does not support item assignment