



Morrizzzzz /  
intro\_python\_unigis



<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

intro\_python\_unigis / intro\_python.ipynb



Morrizzzzz Add files via upload

ce0a5dd · 9 minutes ago



3945 lines (3945 loc) · 185 KB

intro\_python\_unigis / intro\_python.ipynb

↑ Top

Preview

Code

Blame

Raw



## Intro to python

```
In [2]: print("Hello UNIGIS")
```

Hello UNIGIS

```
In [3]: 2+2
```

Out[3]: 4

```
In [4]: hello + unigis #will not work!
```

**NameError**

Traceback (most recent call last)

Cell In[4], line 1

----> 1 hello + unigis

**NameError**: name 'hello' is not defined

```
In [5]: "hello"+"unigis"
```

Out[5]: 'hellounigis'

## VARIABLE

```
In [7]: string1 = "hello"
        string2 = "unigis"
```

```
In [8]: string1 + " " + string2
```

Out[8]: 'hello unigis'

```
In [9]: type(string1)
```

Out[9]: str

```
In [17]: number1 = 2
         number2 = 2
```

```
In [12]: type(number1)
```

Out[12]: int

```
In [13]: number1 + number2
```

Out[13]: 3

```
In [14]: str(number1)+ str(number2)
```

```
Out[14]: '12'
```

```
In [15]: number1 * number2 #multiplcation
```

```
Out[15]: 2
```

```
In [18]: number1 ** number2 #power
```

```
Out[18]: 4
```

Logical operations <, >, ==, !=, <=, >=

```
In [19]: 3 > 4
```

```
Out[19]: False
```

## LISTS AND TUPLETS

```
In [20]: numbers = [1,2,3,4,5,6,7]
         numbers[1]
```

```
Out[20]: 2
```

```
In [21]: len(numbers)
```

```
Out[21]: 7
```

```
In [25]: for number in numbers:
         print(str(number)+"randomstring")
```

```
1randomstring
2randomstring
3randomstring
4randomstring
5randomstring
6randomstring
7randomstring
```

```
In [26]: numbers.append(8)
         print(numbers)
```

```
[1, 2, 3, 4, 5, 6, 7, 8]
```

TUPLES CANNOT BE CHANGED

```
In [27]: a_tuple = (1,2,3,4)
```

```
In [28]: , / . \
```

```
len(a_tuple)
```

Out[28]: 4

```
In [29]: another_tuple = ("amsterdam", "antwerp", "Lecco")
```

```
In [30]: another_tuple
```

Out[30]: ('amsterdam', 'antwerp', 'Lecco')

## DICTIONARIES

```
In [31]: country_city = {"netherlands": "amsterdam", "belgium": "antwerp", "italia": "l
```

```
In [32]: country_city['netherlands']
```

Out[32]: 'amsterdam'

```
In [33]: country_city['spain'] = "madrid"
```

```
In [34]: country_city
```

Out[34]: {'netherlands': 'amsterdam',  
          'belgium': 'antwerp',  
          'italia': 'Lecco',  
          'spain': 'madrid'}

## FUNCTIONS

```
In [38]: def add_function(a,b):  
         result = a+b  
         return result
```

```
In [39]: add_function(2,4)
```

Out[39]: 6

## DATAFRAMES PANDAS

Import a library

```
In [40]: import pandas as pd
```

use tab to see options

```
In [41]: pd.read_csv("trees_amsterdam_sept_2023.csv")
```

Out[41]:

	fid	id	soortnaam	soortnaamK	SoortnaamN	boomhoogte
--	-----	----	-----------	------------	------------	------------

































