Introduction to Python Day 2

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Jupyter Notebook

Recap homework

Let's take a look at the homework

Functions part 2

Goal of today

This is an example to showcase what we will achieve today.

Global vs. Local

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Short interlude

• Whole numbers: Integers int

```
type(1)
```

int

• Real numbers: Floats float

```
type(1.0)
```

float

• Most of the time it might not matter¹

```
1 == 1.0
```

True

• Sometimes there is a difference and we will see later why

Most of the time python handles the integer vs. float automatically. You will not have to worry about assigning.

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Conditional statements

The important question of what to do "if" something happens.

- Programming languages are languages
- if something is True you should do something, else do something else

•••

¹In python

How to check if everything is true?
For loops
Enumerate
Range
List comprehension
Compare different functions
While loops
Perform a task while something is TrueBe careful:
 Some loops never finish (get stuck) Make sure that condition for ending the loop can be fullfilled
<pre>while check_condition: perform_task()</pre>
Errors and how to read them
Types of errors

Fix errors