

Montag, 25.09.2023

Imperative Programmierung → basis per basis & GO TO

Functional programming ≈ subset of declarative programming

Lazy Evaluation

↳ range

Objekte in Python

↳ Alles in Python ist ein Objekt

? Dungeon Crawler ?

Reflektive Programmierung ?

↳ know all scripts ...

Esoterische Programmiersprachen

filter function

for i in filter(...):

[ ]

try, except, finally }

try, except, else

Fehlerarten

↳ NameError, TypeError, MemoryError, OverflowError

~~REVIEW~~

Fehler type

except Type Error:

....

try:

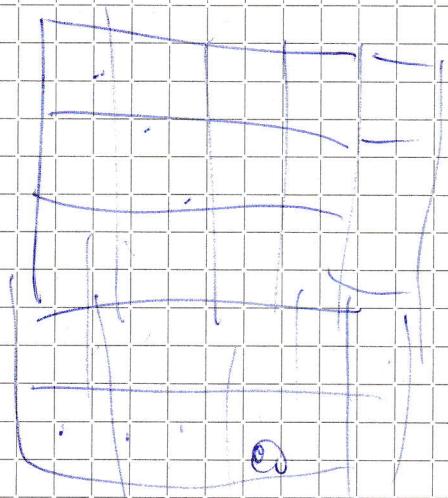
....

except Type Error:

except IndexError:

....

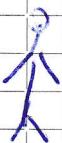
class Maze



Worm hole

L Locat coords  
(x, y)

class ~~walker~~  
walker



L locat Coords  
(x, y)

Dienstag, 26.09.2023

Raise Error

Class

Text-based adventure game

self & other

public	myfun()
protected	-myfun-
private	--myfun--()

Magic methods

Mittwoch, 27.09.2023

- function
- magic method
- method,      ↪ inside a class

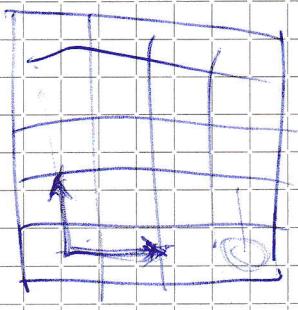
Magic methods,

↳ beschreiben grundlegende Eigenschaften der Klasse

mutable & immutable objects.

↳ ist der Speicherort fest oder variabel?

Speicherort  $\sim$  id



Donnerstag, 28.09.2023

immutable objects

Ist in tuple

Datentypen → immutabile class?

~~Inheritance~~

Inheritance ~ Vererbung

Korrigefragen @ hays.de  
0621 1788 1188 } Hays

## Inheritance

### Multilevel Inheritance

```
class Vehicle:
    def __init__(self, brand, model):
        self.brand = brand
        self.model = model
```

```
class Car(Vehicle):
    def __init__(self, brand, model, year):
        super().__init__(brand, model)
        self.year = year
```

```
class Opel(Car):
    def __init__(self, brand, model, year, engine_type):
        super().__init__(brand, model, year)
        self.engine_type = engine_type
```

### Multiple Inheritance

```
class motorcycle(MeanOfTransportation, Motor):
    pass
```

### Project Covid 19

↳ selecting a province

choose province near that prov

choose province far away from that prov

↳ stat descriptive: plotting...

↳ correlation

↳ optional: create prediction model... → plotting the picture