

Python Notizen

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»Die Mathematik ist die Sprache der Natur, ihre Buchstaben sind Dreiecke, Kreise und andere Figuren.«

- Galileo Galilei

√ keywords

1 boolean true false

```
# boolean true, false
log_var1 = True == (1 > 2) # False
log_var2 = True == (2 > 1) # True
```

2 and or not

```
# and, or, not
log_var3 = True and True # True
log_var4 = True or False # True
log_var5 = not False # True
```

3 break continue

```
# break, continue
while True:
    break # ende
    continue # abbruch
```

4 class

```
# class
#class Coffee:
     # Define your class
```





5 funktion

```
def say_hi():
    print("hi")
say_hi()
```

6 if elif else

```
x = int(input("Eingabe Zahl: "))
if x > 3: print("Big")
elif x == 3: print("3")
else: print("Small")
```

7 for while

```
# For
for i in [0,1,2]:
    print(i)

# While
j = 0
while j < 3:
    print(j); j = j + 1</pre>
```

8 in

```
# in
liste = [2, 39, 42]
log_var6 = 42 in liste # True
log_var6
```

9 is

```
# is
y = x = 3
log_var7 = x is y # True
```



Quelle: Jan Schaffranek franneck94 ³



10 None

```
# None
print() is None # True
```

11 lambda

```
# lambda
(lambda x: x+3)(2) # 5
```

12 return

```
# return
def increment(x):
    return x + 1

increment(4) # returns 5
```



Vektor und Matrix

array1	=	10	100	1000
array2	=	1 4	2 5	3 6
Berechne				
array2 + 1	=	2 5	3 6	4 7
array2 * array2	=	1 16	4 25	9 36
array2 * array1	=	10 40	200 500	3000 6000
array2 @ array2.T	=	14 32	32 77	
array2.T	=	1 2 3	4 5 6	