

Python

...für Anfänger

Unit 12

by

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Dictionary - 1

```
>>> phone_book = {}
>>> phone_book
{}
>>> type(phone_book)
<class 'dict'>
>>> phone_book["maxi"] = 4711
>>> phone_book
{'maxi': 4711}
>>> phone_book["anton"] = 1234
>>> phone_book
{'maxi': 4711, 'anton': 1234}
>>> len(phone_book)
2
```

Dictionary - 2

```
>>> phone_book["anton"]
1234
>>> phone_book["mini"]
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
KeyError: 'mini'
>>> "anton" in phone_book
True
>>> "mini" in phone_book
False
```

Dictionary - 3

```
>>> phone_book = {"maxi": 4711, "anton": 1234, 1234  
>>> for key in phone_book:  
...     print(key, phone_book[key])  
...  
1234 anton  
maxi 4711  
anton 1234  
>>> for key, value in phone_book:  
...     print(key, value)  
...  
1234 anton  
maxi 4711  
anton 1234
```

Dictionary - 4

```
>>> phone_book.keys()
dict_keys([1234, 'maxi', 'anton']) # "fauler" Typ
>>> keys = _
>>> type(keys)
<class 'dict_keys'>
>>> 1234 in keys
True
>>> for k in keys:
...     print(k, end=" ")
...
1234 maxi anton >>>
>>>
```

Dictionary - 5

```
>>> list(keys)
[1234, 'maxi', 'anton']
>>> tuple(keys)
(1234, 'maxi', 'anton')
>>> values = phone_book.values()
>>> print(values)
dict_values(['anton', 4711, 1234]) # "fauler" Typ
>>> print(phone_book.items())
dict_items([(1234, 'anton'), ('maxi', 4711), ('anto
>>> for key, value in phone_book:
...     print(key, value)
...
```

Datei - 1

```
>>> f = open("todo.org", "w")
>>> type(f)
<class '_io.TextIOWrapper'>
>>> print(f)
<_io.TextIOWrapper name='todo.org' mode='w' encoding='utf-8'>
>>> f.closed
False
>>> f.write("* TODO Milch kaufen\n")
20
>>> f.close()
>>> f.closed
True
```

Datei - 2

```
>>> f = open("todo.org", "r")
>>> f.read()
'* TODO Milch kaufen\n'
>>> f.close()
>>> f = open("todo.org", "w")
>>> f.write('* TODO Brot kaufen\n')
19
>>> f.close()
>>> f = open("todo.org", "r")
>>> f.read()
'* TODO Brot kaufen\n'
>>> f.close()
```


Datei - 3

```
>>> f = open("todo.org", "a")
>>> f.write("* TODO Milch kaufen\n")
20
>>> f.writelines(["* TODO Senf kaufen\n",
                  "* TODO Wurst kaufen\n"])
>>> f.close()
>>> f = open("todo.org", "r")
>>> f.readlines()
['* TODO Brot kaufen\n', '* TODO Milch kaufen\n',
 '* TODO Senf kaufen\n', '* TODO Wurst kaufen\n']
>>> f.readlines()
[]
```

Datei - 4

```
>>> f.seek(0)
0
>>> print(f.readline())
* TODO Brot kaufen

>>> print(f.readline().strip())
* TODO Milch kaufen
>>> print(f.readline().rstrip())
* TODO Senf kaufen
>>> print(f.readline().strip())
* TODO Wurst kaufen
>>> print(f.readline().strip())

>>> f.close()
```

Datei - 5

```
>>> f = open("todo.org", "r")
>>> for line in f:
...     print(line, end="")
...
* TODO Brot kaufen
* TODO Milch kaufen
* TODO Senf kaufen
* TODO Wurst kaufen
>>> f.tell()
78
>>> f.seek(0)
0
>>> f.tell()
0
>>> f.close()
```