

# Python

## Weblinks

<https://github.com/diveintomark/diveintopython3>

<https://github.com/diveintomark/diveintohtml5>

## Tipps und Tricks

Ein Matrix transponieren (Zeilen und Spalten vertauschen):

```
from pprint import pprint as pp

T1 = [[11, 12, 13, 14, 15, 16, 17, 18],[21, 22 ,23, 24, 25,26, 27, 28],[31,
32 ,33, 34, 35, 36, 37, 38]]
pp(T1)

# [[11, 12, 13, 14, 15, 16, 17, 18],
#  [21, 22, 23, 24, 25, 26, 27, 28],
#  [31, 32, 33, 34, 35, 36, 37, 38]]

T2 = list(zip(*T1))
pp(T2)

# [(11, 21, 31),
#  (12, 22, 32),
#  (13, 23, 33),
#  (14, 24, 34),
#  (15, 25, 35),
#  (16, 26, 36),
#  (17, 27, 37),
#  (18, 28, 38)]
```

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