

Python One-Liner Cheat Sheet

Popular Python tips, one-liners, and idiomatic expressions

“Write cleaner, faster, smarter Python.”

Built by Developer Service.

Visit <https://developer-service.blog/> for more Python, Django and AI content.

Table of Contents

1. List & Dictionary Comprehensions
 2. String Tricks
 3. Functional Programming
 4. File & I/O Shortcuts
 5. One-Liner Tricks
 6. Miscellaneous
 7. Pro Tips
-

1. List & Dictionary Comprehensions

```
# Square numbers in a list
squares = [x**2 for x in range(10)]

# Filter even numbers
evens = [x for x in range(10) if x % 2 == 0]

# Dictionary from two lists
keys = ['a', 'b', 'c']
values = [1, 2, 3]
d = {k:v for k,v in zip(keys, values)}
```

2. String Tricks

```
# Reverse a string
rev = "hello"[::-1]

# Check if palindrome
is_palindrome = lambda s: s == s[::-1]

# Join list into string
s = ','.join(['apple', 'banana', 'cherry'])
```

3. Functional Programming

```
# Map & filter
nums = [1,2,3,4,5]
squared_evens = list(map(lambda x: x**2, filter(lambda x: x%2==0, nums)))

# Reduce to sum
from functools import reduce
total = reduce(lambda a,b: a+b, [1,2,3,4])

# Sort by length
words = ['apple', 'fig', 'banana']
words.sort(key=len)
```

4. File & I/O Shortcuts

```
# Read file lines
lines = open('file.txt').read().splitlines()

# Write lines to file
open('file.txt', 'w').writelines([f"{line}\n" for line in lines])

# Read CSV to list of dicts
import csv
data = list(csv.DictReader(open('file.csv')))
```

5. One-Liner Tricks

```
# Swap variables
a,b = b,a

# Flatten list of lists
flat = [x for sub in [[1,2],[3,4]] for x in sub]

# Check if all elements satisfy condition
all_even = all(x%2==0 for x in [2,4,6])

# Generate Fibonacci sequence (first 10)
from itertools import accumulate
fib = list(accumulate([0,1]+[0]*8, lambda x,y: x+y))
```

6. Miscellaneous

```
# Unique elements in a list
unique = list(set([1,2,2,3,3,3]))

# One-liner HTTP request
import requests
data = requests.get('https://api.github.com').json()

# Ternary operator
status = "Even" if x%2==0 else "Odd"
```

7. Pro Tips

- **Readability first:** One-liners are cool, but clarity > brevity.
- **Combine wisely:** Chain comprehensions and map/filter for powerful transformations.
- **Test in REPL:** Quick experimentation makes one-liners safer.
- **Use built-in modules:** `itertools`, `functools`, `collections` for more advanced patterns.

Follow me on Twitter: <https://twitter.com/DevAsService>

Follow me on Instagram: <https://www.instagram.com/devasservice/>

Follow me on TikTok: <https://www.tiktok.com/@devasservice>

Follow me on YouTube: <https://www.youtube.com/@DevAsService>