

Python List – Professional Cheat Sheet

Quick Revision Guide (Beginner → Advanced)

Creatina Lists

```
a = []
a = [1, 2, 3]
a = list((1, 2, 3))
```

Accessing Elements

```
a[0]
a[-1]
a[1:4]
a[::-1]
```

Addina Elements

```
a.append(5)
a.insert(1, 10)
a.extend([6, 7])
```

Removina Elements

```
a.remove(3)
a.pop()
del a[0]
a.clear()
```

Loopina

```
for i in a:
    print(i)

for idx, val in enumerate(a):
```

Sortina & Reversina

```
a.sort()
a.sort(reverse=True)
a.reverse()
```

List Comprehension

```
[x*x for x in range(5)]
[x for x in a if x % 2 == 0]
```

Copina Lists

```
b = a.copy()
b = a[:]
b = a # reference
```

Built-in Functions

```
len(a)
min(a)
max(a)
sum(a)
any(a)
all(a)
```

Nested Lists

```
m = [[1,2], [3,4]]  
m[0][1]
```

Time Complexity (Quick View)

Operation	Time Complexity
Access	O(1)
Append	O(1)
Insert/Delete	O(n)
Search	O(n)

Designed for GitHub repositories, interviews, backend development, CTFs, and daily revision.