## Python Cheat Sheet: List Methods

“A puzzle a day to learn, code, and play” → Visit [finxter.com](https://finxter.com)

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
</table>
| `lst.append(x)` | Appends element `x` to the list `lst`.                                      | `>>> l = []
>>> l.append(42)
>>> l.append(21)
[42, 21]` |
| `lst.clear()`   | Removes all elements from the list `lst`–which becomes empty.               | `>>> lst = [1, 2, 3, 4, 5]
>>> lst.clear()
[]` |
| `lst.copy()`    | Returns a copy of the list `lst`. Copies only the list, not the elements in the list (shallow copy). | `>>> lst = [1, 2, 3]
>>> lst.copy()
[1, 2, 3]` |
| `lst.count(x)`  | Counts the number of occurrences of element `x` in the list `lst`.          | `>>> lst = [1, 2, 42, 2, 1, 42, 42]
>>> lst.count(42)
3
>>> lst.count(2)
2` |
| `lst.extend(iter)` | Adds all elements of an iterable `iter` (e.g. another list) to the list `lst`. | `>>> lst = [1, 2, 3]
>>> lst.extend([4, 5, 6])
[1, 2, 3, 4, 5, 6]` |
| `lst.index(x)`  | Returns the position (index) of the first occurrence of value `x` in the list `lst`. | `>>> lst = ["Alice", 42, "Bob", 99]
>>> lst.index("Alice")
0
>>> lst.index(99, 1, 3)
ValueError: 99 is not in list` |
| `lst.insert(i, x)` | Inserts element `x` at position (index) `i` in the list `lst`.              | `>>> lst = [1, 2, 3, 4]
>>> lst.insert(3, 99)
[1, 2, 3, 99, 4]` |
| `lst.pop()`     | Removes and returns the final element of the list `lst`.                    | `>>> lst = [1, 2, 3]
>>> lst.pop()
3
>>> lst
[1, 2]` |
| `lst.remove(x)` | Removes and returns the first occurrence of element `x` in the list `lst`.  | `>>> lst = [1, 2, 99, 4, 99]
>>> lst.remove(99)
>>> lst
[1, 2, 4, 99]` |
| `lst.reverse()` | Reverses the order of elements in the list `lst`.                          | `>>> lst = [1, 2, 3, 4]
>>> lst.reverse()
>>> lst
[4, 3, 2, 1]` |
| `lst.sort()`    | Sorts the elements in the list `lst` in ascending order.                     | `>>> lst = [88, 12, 42, 11, 2]
>>> lst.sort()
# [2, 11, 12, 42, 88]
>>> lst.sort(key=lambda x: str(x)[0])
# [11, 12, 2, 42, 88]` |