



<https://dfedorov.spb.ru>

# Методы списка

```
>>> colors = ['red', 'orange', 'green']
>>> colors.extend(['black', 'blue']) # +
>>> colors
['red', 'orange', 'green', 'black', 'blue']
>>> colors.append('purple')
>>> colors
['red', 'orange', 'green', 'black', 'blue', 'purple']
>>> colors.insert(2, 'yellow')
>>> colors
['red', 'orange', 'yellow', 'green', 'black', 'blue', 'purple']
>>> colors.remove('black')
>>> # Перед использованием remove
>>> # проверять наличие элемента в списке
>>> colors
['red', 'orange', 'yellow', 'green', 'blue', 'purple']
>>> colors.count('red')
1
>>> colors.index('green')
3
```

[Список методов](#)

# Методы списка

```
>>> colors
['red', 'orange', 'yellow', 'green', 'blue', 'purple']
>>> colors.pop()
'purple'
>>> colors
['red', 'orange', 'yellow', 'green', 'blue']
>>> colors.reverse()
>>> colors
['blue', 'green', 'yellow', 'orange', 'red']
>>> colors.sort()
>>> colors
['blue', 'green', 'orange', 'red', 'yellow']
>>> colors.clear()
>>> colors
[]
```

[Список методов](#)

# Обращение списка

ИТЕРАТОР

```
>>> xs = [1, 2, 3]
>>> xs.reverse()
>>> xs
[3, 2, 1]
>>> reversed(xs)
<list_reverseiterator object at 0x7f6e6f38ebe0>
>>> list(reversed(xs))
[1, 2, 3]
>>> xs
[3, 2, 1]
```

```
>>> rlist = reversed(xs)
>>> next(rlist)
1
>>> next(rlist)
2
>>> next(rlist)
3
>>> next(rlist)
Traceback (most recent call last):
  File "<pyshell#17>", line 1, in
<module>
    next(rlist)
StopIteration
>>>
```

```
>>> arr = [1, 5, 3, 67, 898]
>>> arr.sort()
>>> arr
[1, 3, 5, 67, 898]
>>> arr.sort(reverse=True)
>>> arr
[898, 67, 5, 3, 1]
>>> sorted(arr)
[1, 3, 5, 67, 898]
>>> arr
[898, 67, 5, 3, 1]
>>>
```

метод sort  
изменяет список

функция sorted  
возвращает копию

```
>>> x = [[4, 5], [1, 3], [5, 8]]
```

```
>>> x.sort()
```

```
>>> x
```

```
[[1, 3], [4, 5], [5, 8]]
```

```
>>> x = ["The", "Python", "Sort"]
```

```
>>> x.sort()
```

```
>>> x
```

```
['Python', 'Sort', 'The']
```

Каким образом можно упорядочить строки по количеству символов?

```
>>> x = ["The", "Python", "1"]
```

```
>>> x.sort(key=len)
```

```
>>> x
```

```
['1', 'The', 'Python']
```



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