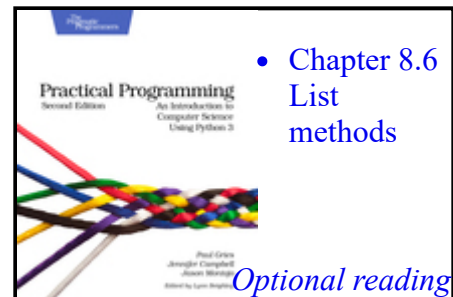# `list` Methods

Optional reading

Methods

A method is a function inside an object. You can find out the methods in type `list` by typing `dir(list)`.

Modifying Lists

The table below contains methods that modify lists.

Method	Description	Example

`list.append(object)`	Append `object` to the end of list.	```>>> colours = ['yellow', 'blue']```
		```>>> colours.append('red')```
		```>>> print(colours)```
		```['yellow', 'blue', 'red']```

`list.extend(list)`	Append the items in the list parameter to the list.	```>>> colours.extend(['pink', 'green'])```
		```>>> print(colours)```
		```['yellow', 'blue', 'red', 'pink', 'green']```

`list.pop([index])`	Remove the item at the end of the list; optional index to remove from anywhere.	```>>> colours.pop()```
		```'green'```
		```>>> print(colours)```
		```['yellow', 'blue', 'red', 'pink']```
		```>>> colours.pop(2)```
		```'red'```
		```>>> print(colours)```
		```['yellow', 'blue', 'pink']```

`list.remove(object)`	Remove the first occurrence of the object; error if not there.	```>>> colours.remove('green')```
		```Traceback (most recent call last):```
		``` File "<pyshell#10>", line 1, in <module>```
		``` colours.remove('green')```
		```ValueError: list.remove(x): x not in list```
		```>>> colours.remove('pink')```
		```>>> print(colours)```
		```['yellow', 'blue']```

`list.reverse()`	Reverse the list.	```>>> grades = [95, 65, 75, 85]```
		```>>> grades.reverse()```
		```>>> print(grades)```
		```[85, 75, 65, 95]```

`list.sort()`	Sort the list from smallest to largest.	```>>> grades.sort()```
		```>>> print(grades)```
		```[65, 75, 85, 95]```

`list.insert(int, object)`	Insert object at the given index, moving items to make room.	```>>> grades.insert(2, 80)```
		```>>> print(grades)```
		```[65, 75, 80, 85, 95]```

Getting Information from Lists

The table below contains methods that return information about lists.

Method	Description	Example

`list.count(object)`	Return the number of times object occurs in list.	```>>> letters = ['a', 'a', 'b', 'c']```
		```>>> letters.count('a')```
		```2```

`list.index(object)`	Return the index of the first occurrence of object; error if not there.	```>>> letters.index('a')```
		```0```
		```>>> letters.index('d')```
		```Traceback (most recent call last):```
		``` File "<pyshell#24>", line 1, in <module>```
		``` letters.index('d')```
		```ValueError: 'd' is not in list```

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