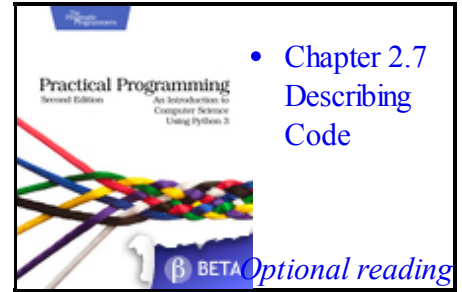


# list Methods

## 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
<code>list.append(object)</code>	Append object to the end of list.	<pre>&gt;&gt;&gt; colours = ['yellow', 'blue'] &gt;&gt;&gt; colours.append('red') &gt;&gt;&gt; print(colours) ['yellow', 'blue', 'red']</pre>
<code>list.extend(list)</code>	Append the items in the list parameter to the list.	<pre>&gt;&gt;&gt; colours.extend(['pink', 'green']) &gt;&gt;&gt; print(colours) ['yellow', 'blue', 'red', 'pink', 'green']</pre>
<code>list.pop([index])</code>	Remove the item at the end of the list; optional index to remove from anywhere.	<pre>&gt;&gt;&gt; colours.pop() 'green' &gt;&gt;&gt; print(colours) ['yellow', 'blue', 'red', 'pink'] &gt;&gt;&gt; colours.pop(2) 'red' &gt;&gt;&gt; print(colours) ['yellow', 'blue', 'pink']</pre>
<code>list.remove(object)</code>	Remove the first occurrence of the object; error if not there.	<pre>&gt;&gt;&gt; colours.remove('green') Traceback (most recent call last):   File "&lt;pyshell#10&gt;", line 1, in &lt;module&gt;     colours.remove('green') ValueError: list.remove(x): x not in list &gt;&gt;&gt; colours.remove('pink') &gt;&gt;&gt; print(colours) ['yellow', 'blue']</pre>
<code>list.reverse()</code>	Reverse the list.	<pre>&gt;&gt;&gt; grades = [95, 65, 75, 85] &gt;&gt;&gt; grades.reverse() &gt;&gt;&gt; print(grades) [85, 75, 65, 95]</pre>
<code>list.sort()</code>	Sort the list from smallest to largest.	<pre>&gt;&gt;&gt; grades.sort() &gt;&gt;&gt; print(grades) [65, 75, 85, 95]</pre>

```
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
<code>list.count(object)</code>	Return the number of times object occurs in list.	<pre>&gt;&gt;&gt; letters = ['a', 'a', 'b', 'c'] &gt;&gt;&gt; letters.count('a') 2</pre>
<code>list.index(object)</code>	Return the index of the first occurrence of object; error if not there.	<pre>&gt;&gt;&gt; letters.index('a') 0 &gt;&gt;&gt; letters.index('d') Traceback (most recent call last):   File "&lt;pyshell#24&gt;", line 1, in &lt;module&gt;     letters.index('d') ValueError: 'd' is not in list</pre>

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