



链滴

# filter、map、reduce在python2和python 3中的不同

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原文链接: <https://ld246.com/article/1372662401589>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)



```
<br /> ...
<br /> &gt;&gt;&gt; filter(f, range(2, 25))
<br /> &lt;filter object at 0x0000000002859EF0&gt;
<br /> &gt;&gt;&gt; list(filter(f, range(2, 25)))#要把filter object转成list
<br /> [5, 7, 11, 13, 17, 19, 23]
```

```
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<div>
&gt;&gt;&gt; def cube(x): return x*x*x
<br /> ...
<br /> &gt;&gt;&gt; map(cube, range(1, 11))
<br /> &lt;map object at 0x000000000285D6A0&gt;
</div>
```

```
<div>
#也要转成list才能输出
<br /> &gt;&gt;&gt; list(map(cube, range(1, 11)))
<br /> [1, 8, 27, 64, 125, 216, 343, 512, 729, 1000]
</div>
```

```
<div>
IndentationError: unexpected indent
<br /> &gt;&gt;&gt; def add(x,y): return x + y
<br /> ...
<br /> &gt;&gt;&gt; reduce(add, range(1, 11))
<br /> Traceback (most recent call last):
<br /> &nbsp;File &quot;&lt;stdin&gt;&quot;, line 1, in &lt;module&gt;
<br /> NameError: name 'reduce' is not defined
</div>
```

```
<div>
#出错了, 怎么回事, 原来在Python 3里,reduce()函数已经被从全局名字空间里移除了,它现在被放在fucntools模块里 用的话要 先引入&nbsp;
</div>
```

```
<div>
&gt;&gt;&gt; from functools import reduce
<br /> &gt;&gt;&gt; reduce(add, range(1, 11))
<br /> 55
</div>
```

```
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```