

集合









```
In : s.remove(4)
```

```
In : s
```

```
Out: {1, 2, 3}
```

```
In : s.remove(4)
```

```
-----  
KeyError                                Traceback (most recent call last)  
<ipython-input-33-737bdeaad795> in <module>()  
----> 1 s.remove(4)
```

```
KeyError: 4
```

```
In : s.discard(4)
```

## issubset/issuperset

```
In : set([1]).issubset(set([1, 2]))  
Out: True
```

```
In : set([1]).issuperset(set([1, 2]))  
Out: False
```

```
In : set([1, 2]).issuperset(set([1]))  
Out: True
```

## 交集/并集/差集

```
In : s1 = set([1, 2, 3])
```

```
In : s2 = set([3, 4, 1])
```

```
In : s1 & s2 # 交集
```

```
Out: {1, 3}
```

```
In : s1 | s2 # 并集
```

```
Out: {1, 2, 3, 4}
```

```
In : s1 - s2 # 差集
```

```
Out: {2}
```

```
In : s2 - s1
```

```
Out: {4}
```



# 不变集合

```
In : fs = frozenset('hello')
```

```
In : fs
```

```
Out: frozenset({'e', 'h', 'l', 'o'})
```

```
In : fs.add('a')
```

```
-----  
AttributeError                                Traceback (most recent call last)  
<ipython-input-38-09a9d04c7ae3> in <module>()  
----> 1 fs.add('a')
```

```
AttributeError: 'frozenset' object has no attribute 'add'
```

## 延伸阅读

1. <https://www.geeksforgeeks.org/sets-in-python/>