

Filter

# Filter

- Form:

`filter(function, list)`

example

```
list = [1, 2, 3,4,5]
```

```
filtered_list = filter(lambda x : x > 3, list)
```

# Simple Example

---

```
values = range(-5, 5)
print(list(values))
filtered = filter(lambda x: x >= 0, values)
print(list(filtered))
```

```
[-5, -4, -3, -2, -1, 0, 1, 2, 3, 4]
[0, 1, 2, 3, 4]
```

---

## Another Example Fibonacci

```
fib = [0,1,1,2,3,5,8,13,21,34,55]  
result = filter(lambda x : x % 2, fib)  
print(list(result))
```

```
[1, 1, 3, 5, 13, 21, 55]
```

# Filter with Strings

```
: res = filter(lambda str: 'ab' in str, mylist)  
list(res)
```

```
: ['ab', 'abc']
```