

List Generators

List generators aka *list comprehensions* and *list displays* provide a quick way to create a list with selected elements from any enumerable object.

List generators are defined through the following syntaxes:

```
[element for item in enumerable]
[element for item in enumerable if condition]
[element for item in enumerable unless condition]
```

Some examples will help illustrate the concept:

List with all the doubles from 0 to 5 (exclusive)

```
doubles = [i*2 for i in range(5)]
```

List with the names of the customers based on Rio de Janeiro

```
rjCustomers = [customer.Name for customer in customers if customer.State == "RJ"]
```