



# List Comprehension

List Comprehension are concise and powerful feature to create list.

They are readable and often faster when compared to traditional way.

Syntax ÷

1.  $[ \text{element for element in iterable} ]$

2.  $[ \text{element for element in iterable} \\ \text{if condition} ]$

$[ \text{'even' if } x \% 2 == 0 \text{ else 'odd'} \\ \text{for } x \text{ in range(5)} ]$

3. nested list comprehension.

- List Comprehension is used at lots of places to define lists so understanding is very crucial.
- Similar syntax will be followed for set and dict comprehension.