

## **Python List Comprehension**

A comprehension is a compact way of creating a Python data structure from iterators. With comprehensions, you can combine loops and conditional tests with a less verbose syntax.

Comprehension is considered more Pythonic and often useful in a variety of scenarios.

## What is List Comprehension?

List comprehension sounds complex but it really isn't.

List comprehension is a way to build a new list by applying an expression to each item in an iterable.

It saves you having to write several lines of code, and keeps the readability of your code neat.

## **Basic Example**

Suppose you want to create a list of all integer square numbers from 0 to 4. You could build that list by appending one item at a time to an empty list: