
Comprehensions

Comprehensions | Purpose



What is a “list comprehension”?

Why would we want to use one?

List Comprehensions | a compact for loop



List comprehension implicitly appends items resulting from the “Expression”

Structure :`[Expression for Item in Iterable]`

For loop:

```
square = []  
for i in range (1,11):  
    square.append(i**2)  
print (square)
```

List comp:

```
[i**2 for i in range(1,11)]
```

Out:

```
[1,4,9,16,36,49,64,81,100]
```

List Comprehensions | loops with conditionals

Nested for loop: List comprehension is run on items also in the second iterable

Structure :`[Expression for Item in Iterable if Item in Iterable]`

Conditional: List comprehension produces tuples resulting from two loops

Structure :`[(Expr1, Expr2) for Item in Iter for Item in Iter]`

Dictionary comprehension: Curly {} braces and key value pairs define this one

Structure :`{Item : Expression for Item in Iterable}`

Comprehensions | Activity 3



What is JSON data?

Similar to a dictionary.