

Python Bootcamp & Masterclass

dictionary
comprehension



Dictionary comprehension is a compact way to process all or part of the elements in a sequence and return a dictionary with the results. It's like a one-line for loop that creates a new dictionary from a sequence. It uses curly braces (`{}`) and key-value pair in the expression.

{ key : value for ITEM in ITERABLE [if (CONDITION)] }

```
squares = {}  
for n in range(5):  
    squares.update({n: n ** 2})  
squares
```

```
{0: 0, 1: 1, 2: 4, 3: 9, 4: 16}
```

```
{n: n ** 2 for n in range(5) }
```

```
{0: 0, 1: 1, 2: 4, 3: 9, 4: 16}
```

```
words = ['Python', 'Programming', 'artificial', 'intelligence']  
{i:len(i) for i in words if len(i) > 6}
```

```
{'Programming': 11, 'artificial': 10, 'intelligence': 12}
```

```
c = ['Python', 'Programming', 'artificial', 'intelligence']  
d = {'Python': 6, 'Programming': 11, 'data': 4, 'science': 7}  
{i:d[i] if i in d else len(i) for i in c}
```

```
{'Python': 6, 'Programming': 11, 'artificial': 10, 'intelligence': 12}
```





Online Resources

For best python resources, please visit:



gknxt.com/python/

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