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Updating Python Dictionaries



In this week's Python snippet post, we're going to take a look at the update method for Python dictionaries. There are three main ways to use update method, which allows us to extend a dictionary with new keys and values.

The first way we're going to look at is using another dictionary object. We can call the <code>update</code> method on a dictionary, and pass in this second dictionary object as an argument. The dictionaries will then get merged into a single dictionary object:

```
student = {
    "name": "Rolf",
    "age": 15
}

grades = {
    "english": "A",
    "maths": "B",
    "science": "A*"
}

student.update(grades)
# {'name': 'Rolf', 'age': 15, 'english': 'A', 'maths': 'B', 'science
```

Note that this is an in-place operation, so the original dictionary is modified by this operation. If you need to preserve the original dictionaries, it's therefore a good idea to make a copy.

The second option for using the update method is passing in an iterable containing key value pairs. These pairs are in turn stored in some kind of iterable object, such a tuple or list.

```
student = {
    "name": "Rolf",
    "age": 15
}

grades = [("english", "A"), ("maths", "B"), ("science", "A*")]

student.update(grades)
# {'name': 'Rolf', 'age': 15, 'english': 'A', 'maths': 'B', 'science
```

As you can see, we end up with the exact same result.

The final way to extend a dictionary with update is to use keyword arguments.

```
student = {
    "name": "Rolf",
    "age": 15
}

student.update(english="A", maths="B", science="A*")
# {'name': 'Rolf', 'age': 15, 'english': 'A', 'maths': 'B', 'science
```

Here each keyword represents a key, and the value is whatever we assigned to that keyword. Once again, the result is identical.

One thing to keep in mind when it comes to using the update method with any of these syntax options is that if a key already exists, this will not raise an exception. Instead, the value of that key will be updated. In other words, the old values will be replaced.

Wrapping up

That's it for this one! As you can see, the update method is happy to take data in many different forms, which makes it really versatile. It's also a method that we often have use for, so I hope you can experiment with the different ways of using update in your own code.

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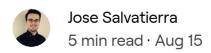
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