

args and kwargs

You can also set up functions to accept any number of arguments or keyword arguments by using a special syntax. To get infinite arguments, use `*args` and for infinite keyword arguments, use `**kwargs`. The “args” and “kwargs” words are not important. That’s just convention. You could have called them `*bill` and `**ted` and it would work the same way. The key here is in the number of asterisks.

Note: in addition to the convention of `*args` and `kwargs`, you will also see `and kw` from time to time.*

Let’s take a look at a quick example:

```
def many(*args, **kwargs):
    print(args)
    print(kwargs)

many(1, 2, 3, name="Mike", job="programmer")

# (1, 2, 3)
# {'job': 'programmer', 'name': 'Mike'}
```



First we create our function using the new syntax and then we call it with three regular arguments and two keyword arguments. The function itself will print out both types of arguments. As you can see, the **args** parameter turns into a tuple and **kwargs** turns into a dictionary. You will see this type of coding used in the Python source and in many 3rd party Python packages.