

Role of ** and * in parameters

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The *args and **kwargs is a common idiom to allow arbitrary number of arguments to functions as described in the section [more on defining functions](#) in the Python documentation.

The *args will give you all function parameters [as a tuple](#):

```
def foo(*args):  
    for a in args:  
        print(a)  
foo(1)  
# 1
```

```
foo(1,2,3)  
# 1  
# 2  
# 3
```

The **kwargs will give you all **keyword arguments** except for those corresponding to a formal parameter as a dictionary.

```
def bar(**kwargs):  
    for a in kwargs:  
        print(a, kwargs[a])  
bar(name='one', age=27)  
# name one  
# age 27
```