

**\*\*kwargs**



**\*\*kwargs**

**\*args** is used to scoop up variable amount of remaining positional arguments

→ tuple

The parameter name **args** is arbitrary – **\*** is the real performer here

**\*\*kwargs** is used to scoop up a variable amount of remaining keyword arguments

→ dictionary

The parameter name **kwargs** is arbitrary – **\*\*** is the real performer here

**\*\*kwargs** can be specified even if the positional arguments have **not** been **exhausted**  
(unlike keyword-only arguments)

No parameters can come **after** **\*\*kwargs**



## Example

```
def func(*, d, **kwargs):  
    # code
```

```
func(d=1, a=2, b=3)    → d = 1  
                        kwargs = {'a': 2, 'b': 3}
```

```
func(d=1)              → d = 1  
                        kwargs = {}
```



## Example

```
def func(**kwargs):  
    # code
```

```
func(a=1, b=2, c=3) → kwargs = {'a': 1, 'b': 2, 'c': 3}
```

```
func( ) → kwargs = {}
```

```
def func(*args, **kwargs):
    # code
```

```
func(1, 2, a=10, b=20)    → args = (1, 2)
                           kwargs = {'a': 10, 'b': 20}
```

```
func( ) → args = ( )  
        kwargs = { }
```



Code

© 2018 Mathlete Academy