

RETURN VALUES

Function Components

Defining Functions

Variable Scope

Modules

Packages

Lambda Functions

Comprehensions

Functions can return multiple values

```
def concatenator(*words):
    sentence = ''
    for word in words:
        sentence += word + ' '
    last_word = words[-1]
    return sentence.rstrip(), last_word

concatenator('Hello', 'world!', 'How', 'are', 'you?')

('Hello world! How are you?', 'you?')
```

The values to return must be separated by commas

This returns a tuple of the specified values

You can unpack the tuple into variables during the function call



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Functions can return multiple values as other types of iterables as well

```
def concatenator(*words):
    sentence = ''
    for word in words:
        sentence += word + ' '
    last_word = words[-1]
    return [sentence.rstrip(), last_word]

concatenator('Hello', 'world!', 'How', 'are', 'you?')
['Hello world! How are you?', 'you?']
```

Wrap the comma-separated return values in square brackets to return them inside a list

```
def concatenator(*words):
    sentence = ''
    for word in words:
        sentence += word + ' '
    last_word = words[-1]
    return {sentence.rstrip(): last_word}

concatenator('Hello', 'world!', 'How', 'are', 'you?')

{'Hello world! How are you?': 'you?'}
```

Or use dictionary notation to create a dictionary (this could be useful as input for another function!)