FUNCTIONS IN PYTHON

The Complete Python Bootcamp

FUNCTIONS IN PYTHON

We use functions to organize our code in blocks that can later be reused.

This offers us better readability and modularity for our code.

FUNCTIONS IN PYTHON

DRY - DON'T REPEAT YOURSELF

FUNCTIONS IN PYTHON

WET - WRITE EVERTHING TWICE

DOCSTRINGS

DOCSTRINGS

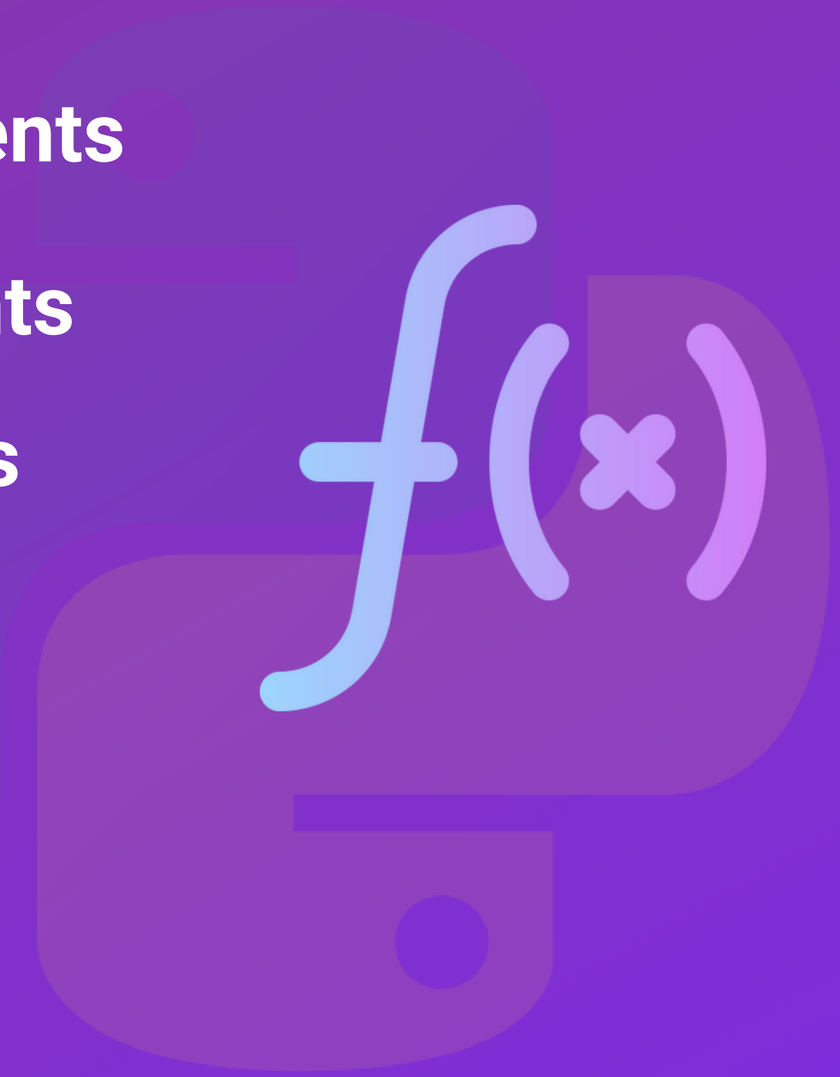
COMMENTING vs. DOCUMENTING

FUNCTIONS IN PYTHON

A function can take parameters that are a special kind of variable used in a function as input.

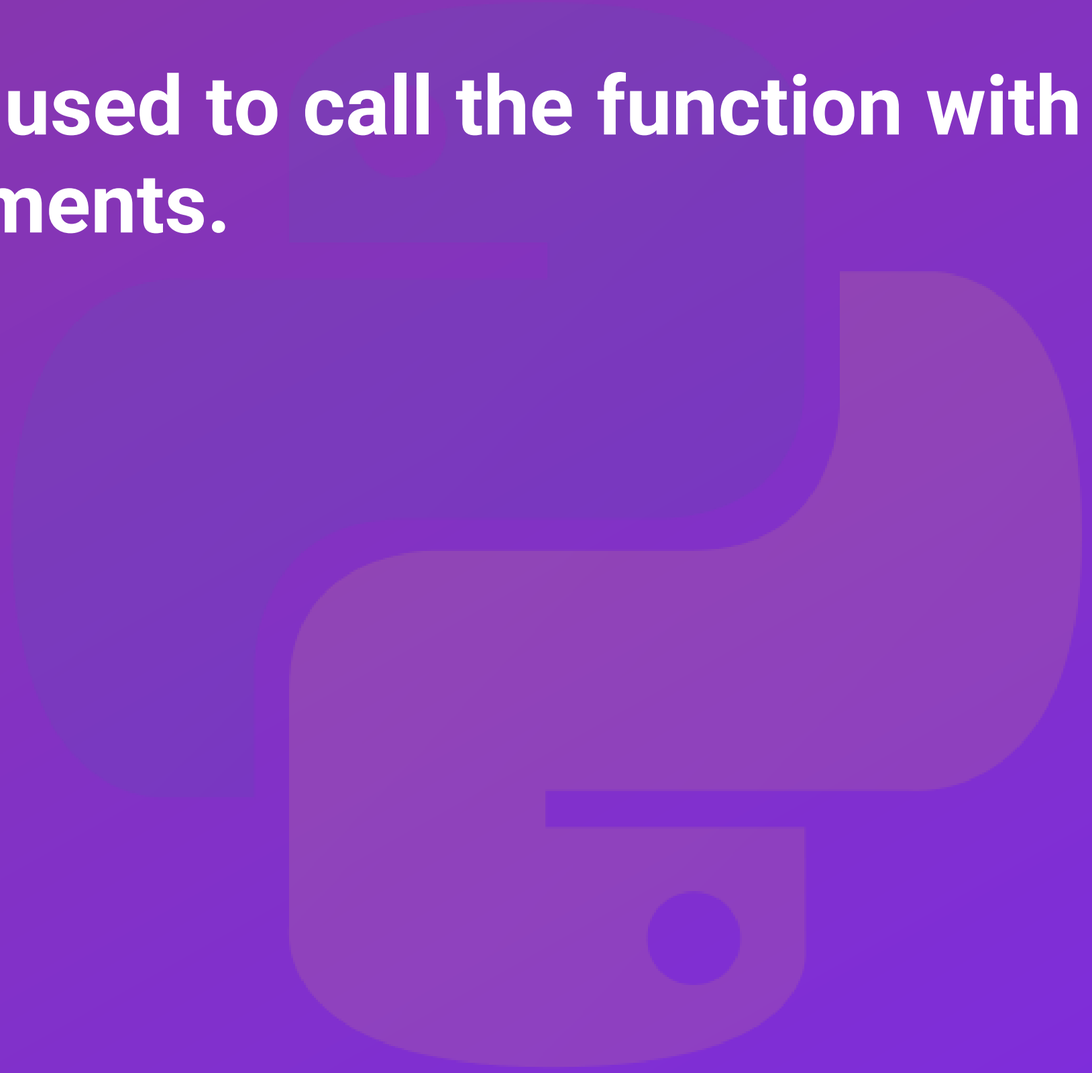
FUNCTION ARGUMENTS

1. Positional arguments
2. Keyword arguments
3. Default arguments
4. *args
5. **kwargs



Variable-length Arguments: **kwargs

**kwargs will be used to call the function with a variable number of keyword arguments.



Variable-length Arguments: **kwargs

**kwargs will be used to call the function with a variable number of keyword arguments.

kwargs stands for keyword arguments and it builds a variable-length dictionary of key:value pairs.

SCOPES AND NAMESPACES

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- the portion of code where the name exists is called the scope of that name and the binding between the name and the value is stored in a namespace;

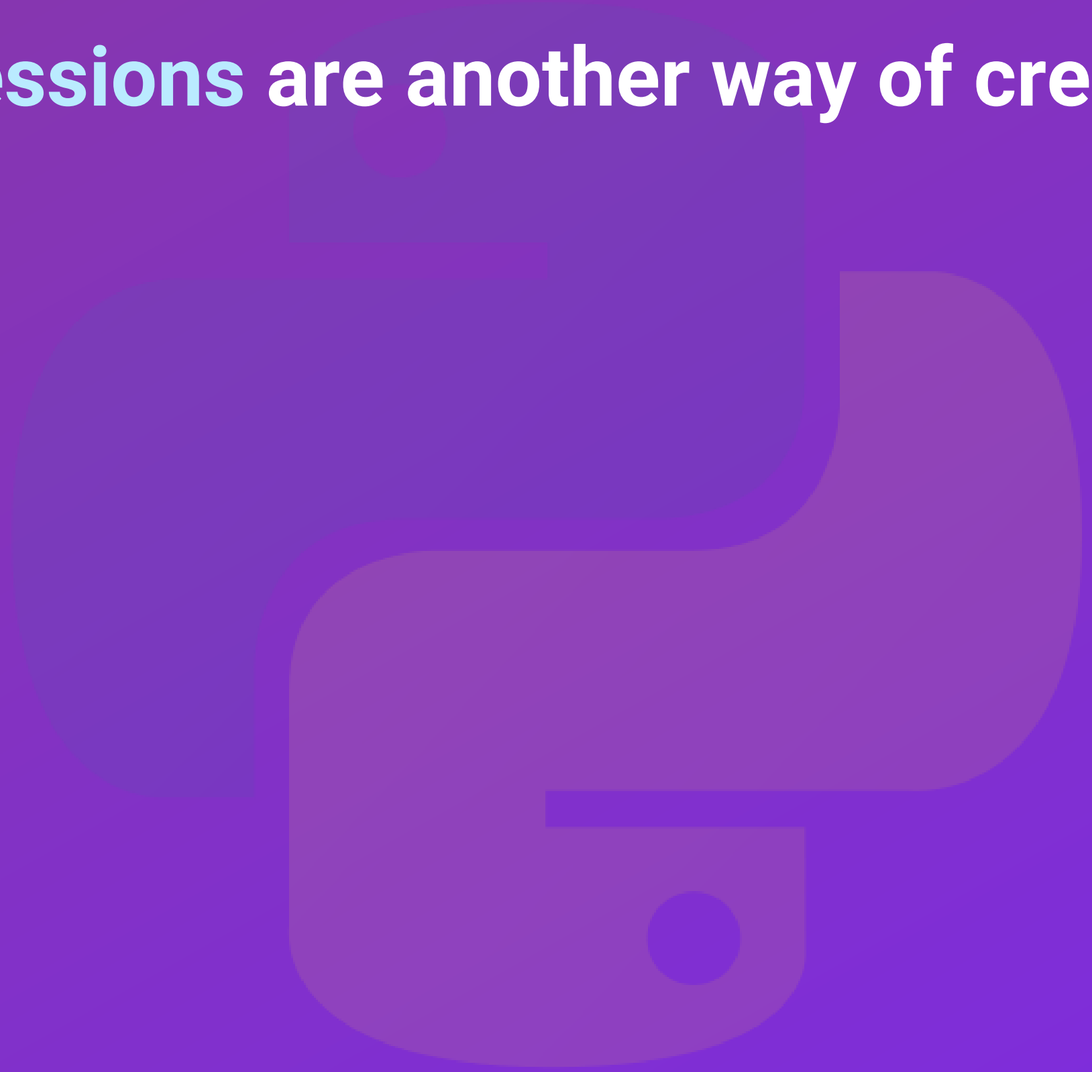
SCOPES AND NAMESPACES

In Python there are 3 namespaces and scopes:

1. **The Built-in Namespace: Python built-in functions**
2. **The Global (Module Namespace): names defined in scripts**
3. **The Local Namespace: names defined inside functions**

LAMBDA EXPRESSIONS

- **Lambda expressions are another way of creating functions.**



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LAMBDA EXPRESSIONS

- Lambda expressions are another way of creating functions.
- They are called anonymous functions because they don't have a name (they are a single line of logical code).
- The terms lambda expressions, lambda functions, anonymous functions or function literals can be used interchangeably.