

Functions

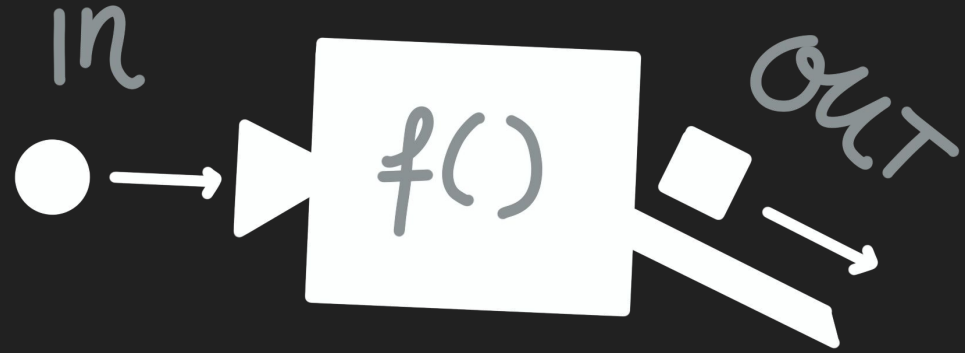
Chelsea Parlett Pelleriti

What is a Function?

Takes in 0+ inputs

Does some operation

Spits out an output object



Why Functions?

- They help us split our code into small, manageable pieces
- Helps our brains understand our code better
- Make our code neater (can reuse)
- Can share with others! (`math.sqrt`)

Syntax

```
1  def my_function():  
2      # <do stuff>  
3      return()  
4
```

Python Functions

Definition: create

Invocation: use

Python Functions

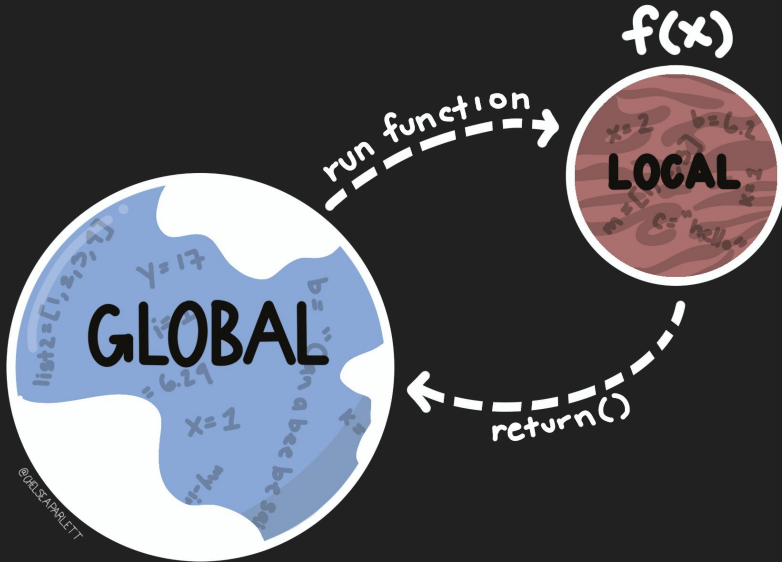
Functions can be defined anywhere but must be defined before they are invoked

For BEST practices, define functions at the top of your script, after import statements, before anything else

Namespaces

When you call a function, the script “pauses” and begins to run the function, waiting for the output

This creates the function’s own little “world”



Returns

YOU CAN ONLY HAVE ONE (at a time)!