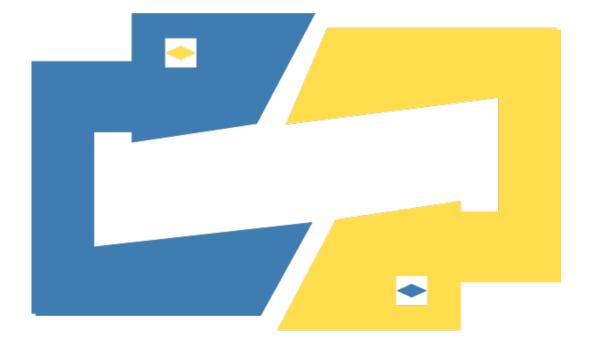
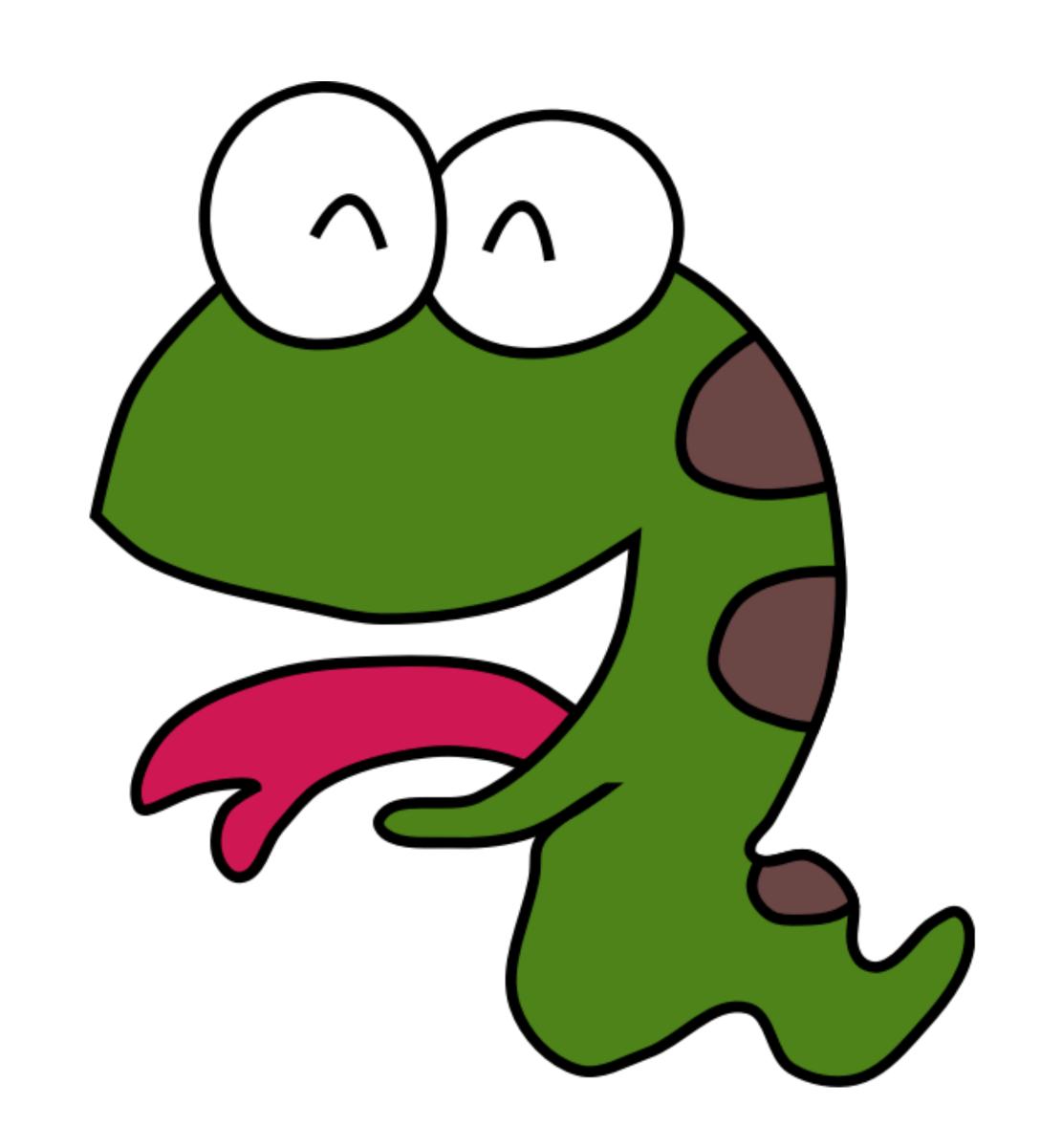
Web Application Development using Python

Introduction to Functions



Outline

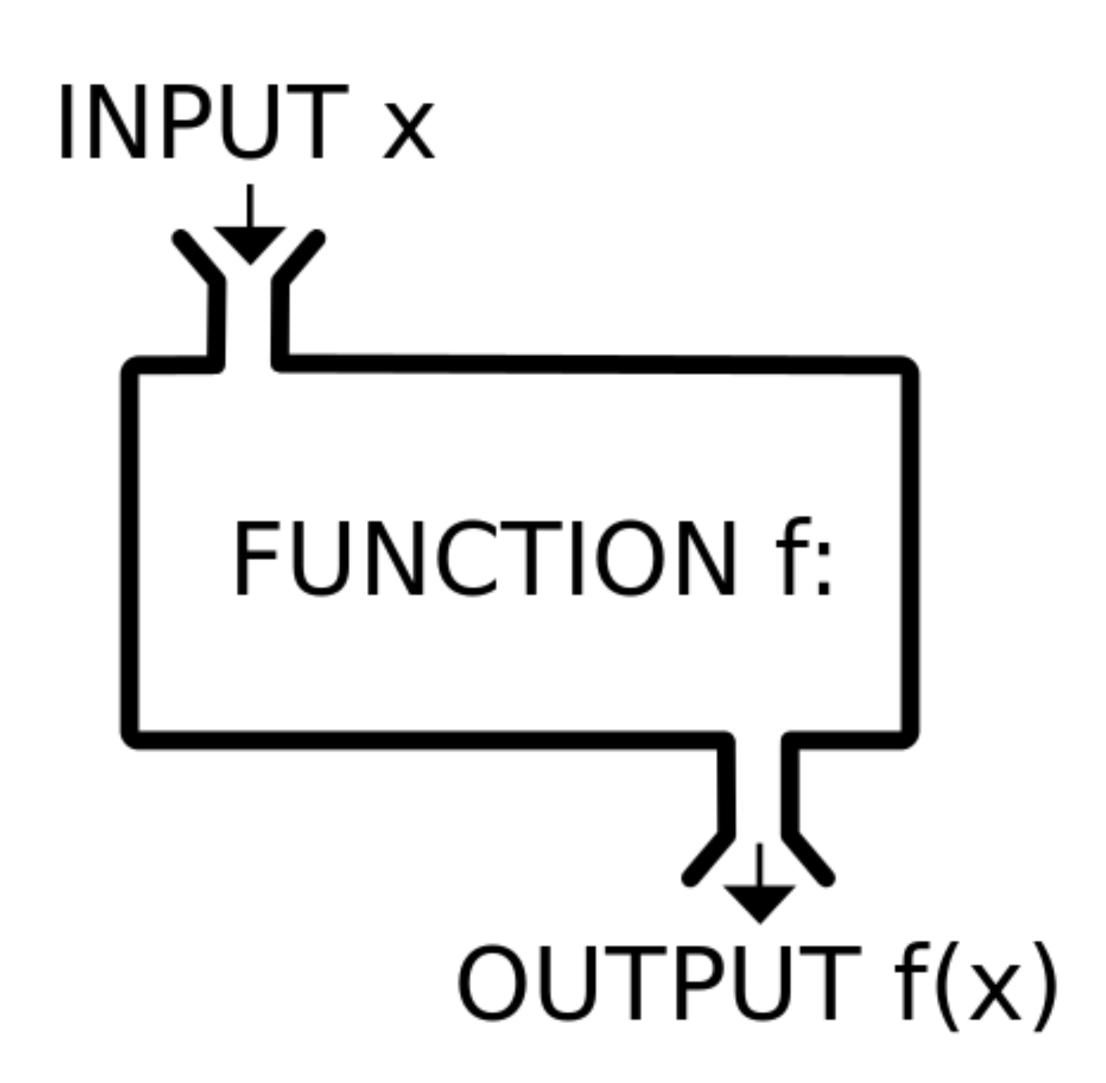
- Basic structure
- Parameters
- Return value
- Functions vs. Methods



Basic StructureW2/S1/ex0.py

Basic Structure W2/S1/ex{0,1}.py

- What is a function signature?
- What is a function parameter?
- What is a function body?
- What is a function call?



Function vs. Methods W2/S1/ex{0,1}.py

Functions

- A function is a block of code to carry out a specific task, will contain its own scope and is called by name.
- All functions may contain zero(no) arguments or more than one arguments.
- On exit, a function can or can not return one or more values.

Methods

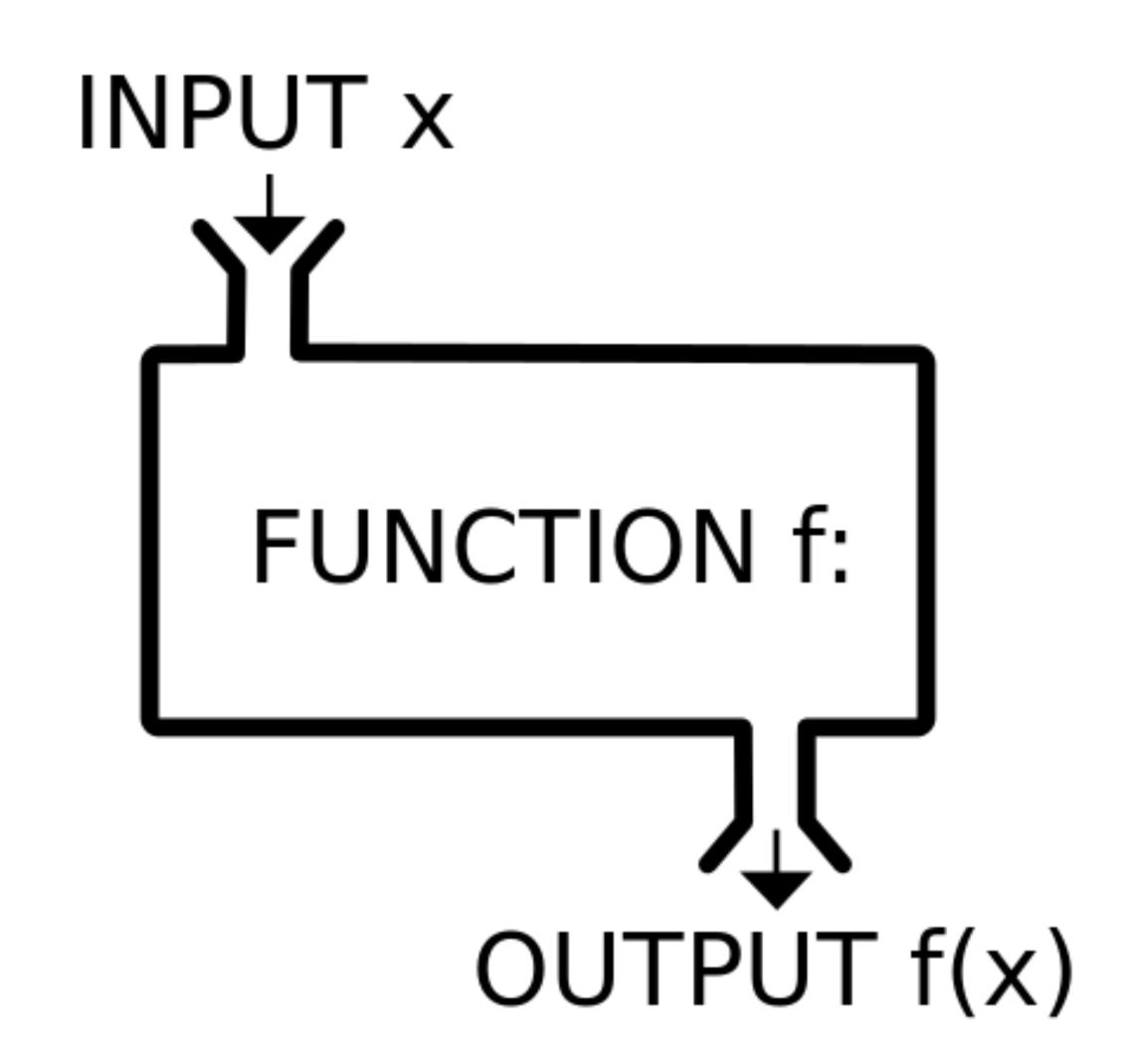
- A method in python is somewhat similar to a function, except it is associated with object/classes.
- Methods in python are very similar to functions except for two major differences.
 - The method is implicitly used for an object for which it is called.
 - The method is accessible to data that is contained within the class.

```
def my_function():
pass
```

```
class Test:
def my_method(self):
    pass
```

Functions

- Built-in Functions
 - len(), range(), min(), etc.
 - int(), str(), list()
- User-defined Functions
 - say_hello(), add(), minimum()
- Anonymous Functions (lambda)



Resources

- https://docs.python.org/3.7/tutorial/controlflow.html#defining-functions
- https://docs.python.org/3.7/tutorial/controlflow.html#more-on-defining-functions