

polymorphism

Polymorphism is the pillar of OOP through which the same method can behave in different ways depending on the object on which it is acting, depending on how said method has been created for the class in particular.

The `len()` method works on different types of objects: lists, tuples, strings, etc. This is because for Python, it is not the types of objects that are important, but what they can do. That means: their methods.

```
class Dog:
    def speak(self):
        print("woof!")

class Cat:
    def speak(self):
        print("meow!")

hachiko = Dog()
garfield = Cat()

for animal in [hachiko, garfield]:
    animal.speak()

>> woof!
>> meow!
```