

## Single Inheritance in python

Single inheritance is a type of inheritance where a class inherits properties and behaviors from a single parent class. This is the simplest and most common form of inheritance.

### Syntax

The syntax for single inheritance is straightforward and easy to understand. To create a new class that inherits from a parent class simply specify the parent class in the class definition inside the parenthesis like this.

```
class Animal:
    def __init__(self,name,species):
        self.name=name
        self.species=species

    def make_sound(self):
        print("Sound made by the animal")

class Dog(Animal):
    def __init__(self, name, breed):
        Animal.__init__(self,name,species="Dog")
        self.breed=breed

    def make_sound(self):
        print("Bark")

d=Dog("Dog","Dogerman")
d.make_sound()

a=Animal("cat","Catman")
a.make_sound()
```

### Source Code

```
class Animal:
    def __init__(self,name,species):
        self.name=name
```

```
        self.species=species

    def make_sound(self):
        print("Sound made by the animal")

class Dog(Animal):
    def __init__(self, name, breed):
        Animal.__init__(self,name,species="Dog")
        self.breed=breed

    def make_sound(self):
        print("Bark")

d=Dog("Dog", "Dogerman")
d.make_sound()

a=Animal("cat", "Catman")
a.make_sound()
```

Thank You