## Super(type, obj)

**Type**: is the start point in MRO (method resolution order, like hierarchy) from where super () searches parent classes

**Obj**: is the object or subtype of the **type**, it is where the returned method binds to

EX:

```
class A(object):
    def __init__(self):
        self.word = "This is A !"

    def print(self):
        print(self.word)

class B(A):
    def __init__(self):
        self.word = "This is B"

    def print(self):
        print(self.word)

class C(B):
    def __init__(self):
        self.word = "This is C"

    def print(self):
        self.word = "This is C"

    def print(self):
        super(C, c).print()
```

## **Result:**

>>> This is C

What happens here is that, super () will traverse the Class C parent classes (Class A and Class B) until an attribute print() is found, and bind this print() method to object c ( an instance of Class C). In this case, it binds print() in b to c, we can see in this way: c pass c' self to b.print(self), that is why printing out "This is C"

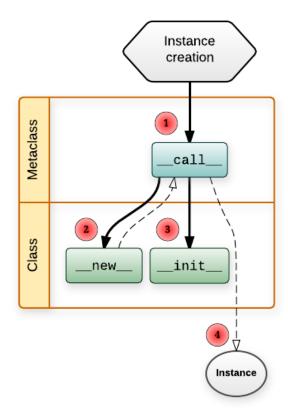
If we change Class c into:

```
class C(B):
    def __init__(self):
        self.word = "This is C"

    def print(self):
        super(B, b).print()
```

Result would be: >>> This is B

Because, it found print() in A, and bind the print() to b, and use self from b.



## **Singleton Metaclass**

