

Magic Methods

- Methods like the init method
- These are internal methods
- `__repr__` and `__str__` are used to change how an object is displayed.
- `str` shows info for the end-user while `repr` shows info for developers.

```
1 class Employee:
2
3     def __init__(self,name,id,pay):
4         self.name = name
5         self.id = id
6         self.pay = pay
7
8
9 class Developer(Employee): #inherits Employee class
10     def __init__(self,name,id,pay,dept,prog_lang):
11         super().__init__(name,id,pay) #calling init from parent class
12         self.dept = dept
13         self.prog_lang = prog_lang
14
15
16 #####Main code here#####
17 #####
18     def __repr__(self):          #repr mimics object creation
19         return "Developer('{}','{},{}','{','})".format(self.name,self.id,self.pay,self.dept,self.prog_
20
21     def __str__(self):          #str shows more generic information
22         return "{ } - {}".format(self.id, self.name)
23
24
25
26 #create instance of Developer class
27 dev1 = Developer('Mohima',100,100,'Retail','shell')
28 dev2 = Developer('Kyle',100,100,'Retail','perl')
29
30 #####calling functions here#####
31 print(dev1)                    #calls the __str__ method
32 print(dev1.__str__())          #calls the __str__ method
33
34 #calling __repr__ on different objects
35 print(dev1.__repr__())
36 print(dev2.__repr__())
37
38 #####OUTPUT OF FUNCTION CALL#####
39 100 - Mohima
40 100 - Mohima
41 Developer('Mohima',100,100,'Retail',shell)
42 Developer('Kyle',100,100,'Retail',perl)
43
44
45
```