

DATA ANALYTICS REFERENCE DOCUMENT	
Document Title:	Data Class in python
Document No.:	1597156878
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REVISION HISTORY

Revision	Details of Modification(s)	Reason for modification	Date	By
0	Draft release	A brief summary on data classes	2020/08/11 14:41	Gerhard van der Linde

Data Class in Python

Create three data classes called a, b and c with a and b contained in c.

Also note the ``iter`` function is the classes and the ``yield`` instead of return that allows iteration in the `iter` function without the need for a `next` function.

```
class a():
    def __init__(self):
        self.val1=123
        self.str1='abc'
    def __iter__(self):
        for attr,val in self.__dict__.items():
            yield attr,val
class b():
    def __init__(self):
        self.val2=456
        self.str2='def'
    def __iter__(self):
        for attr,val in self.__dict__.items():
            yield attr,val
class c(a,b):
    def __init__(self):
        self.c=dict((zip(('val3','str3'),(789,'ghi'))))
        self.a=dict(a())
        self.b=dict(b())
    def __iter__(self):
        for attr,val in self.__dict__.items():
            yield attr,val

if __name__ == '__main__':
    data=c()
    for key,value in dict(data).items():
        print(f'{key}: {value}')
```

c: {'val3': 789, 'str3': 'ghi'}
a: {'val1': 123, 'str1': 'abc'}

b: {'val2': 456, 'str2': 'def'}

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Last update: **2020/08/11 14:47**