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# Object

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## 1. Scala Case Class – Objective

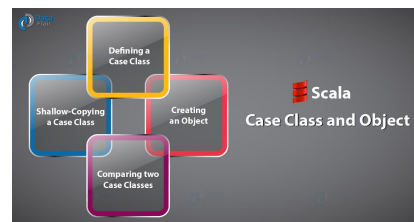
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In this [Scala tutorial](#)

we will see how to defi  
a Scala case class.

Moreover, we will also  
take a look at how to  
compare case classes ar  
create shallow copies.  
Along with this, we will  
also learn how to create  
Scala object.

So, let's explore Scala  
Case Class and Scala  
Object.



*Scala Case Class and Scala  
Objects*

[Read Scala Syntax: A  
Introductory Scala  
Tutorial](#)

## 2. What is Scala Case Class?

A Scala Case Class is like  
a regular class, except it  
is good for modeling  
immutable data. It also  
serves useful in pattern

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matching, such a class has a default apply() method which handles object construction. A scala case class also has all vals, which means they are immutable.

[Let's Revise Scala Syntax with example](#)

## 3. Defining a Minimal Case Class in Scala

To define a minimal Scala Case Class, we need the keywords 'case class', an identifier, and a parameter list. We can keep the parameter list empty.

So, let's define a class 'Song'.

```
1. scala> case  
   Song(title:St
```

## 4. Creating Scala Objec

And now, it's time to create a Scala Object for this Scala class.

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```

1. scala> val
   stay=Song("St
2.   stay: Song =
   Song(Stay, Inn

```

To create a Scala Object of a case class, we don't use the keyword 'new'. This is because its default apply() method handles the creation of objects. Let's try accessing the title of this object:

```

1. scala>
   stay.title
2.   res1: String
   = Stay
3.   And now,
   let's try
   modifying it.
4.   scala>
   stay.title="Me
   Gusta"
5.   <console>:12:
   error:
   reassignment
   to val
6.
   stay.title="Me
   Gusta"
7.
   ^

```

Failed.

[Explore Scala Closures with Examples | See What is Behind the Magic](#)

So, this tells us that Scala case classes hold all vals, and this makes them immutable. We cannot reassign them. And while it is discouraged to do so

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we can use vars in a cas  
class.

## 5. Comparing two Case Classes

Now, let's take a look at how to compare two Scala case classes.

```
1. scala> val crybaby=Song("Cry Baby","Melanie Martinez",7)
2. crybaby: Song = Song(Cry Baby,Melanie Martinez,7)
3. scala> val cry_baby=Song("Cry Baby","Melanie Martinez",7)
4. cry_baby: Song = Song(Cry Baby,Melanie Martinez,7)
5. They hold the same contents are they the same? Let's ask Scala
6. scala> crybaby==cry_baby
7. res2: Boolean = true
8. Yes. Yes, they are the same.
```

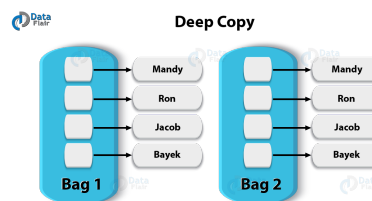
## 6. Shallow-Copying a

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# Scala Case Class

Since a Scala case class is immutable, we might sometimes need a copy make changes in without changing the original. So we now see how to create a shallow copy of it. But before that, let's see a little about shallow and deep copies.

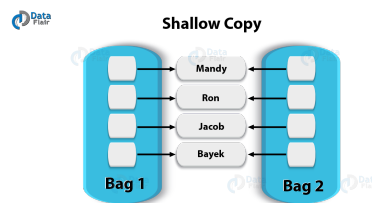
A **deep copy** is a copy to another object where any changes we make to it don't reflect in the original object.



Scala Case class- Deep copy

A **shallow copy**, however, is one where changes to the copy do reflect in the original.

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Scala Case class- Shallow copy

So, Scala uses the method `copy()` to carry out a shallow copy.

```
1. scala> val chandelier1=c
2. chandelier1: Song (Chandeli
```

It is also possible to change the constructor arguments.

```
1. scala> val chandelier2=ch
2. chandelier2: S
```

So, this was all about Scala Case Class and Scala Object. Hope you like our explanation.

## 7. Conclusion: Scala Case Class and Scala object

So, this is how we define a case class and process

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it. Hence, we saw Scala Case Class. Moreover, we discussed Creating a Scala object. Also, we compared two Scala Case Classes. Finally, we looked at shallow copyi a Scala Case Class. Furthermore, feel free to leave your doubts and suggestions in the comment section.

### [For reference](#)

Tags: case class

case class in scala

creating an scala object

defining a case class

object in scala scala

Scala case class Scala Object

shallow copy

shallow copying a case class



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**hari**

🕒 June 30, 2018 at 2:36 pm

A deep copy is a copy of an object to another object where any changes we make to it don't reflect in the origin object.

Scala Case class

Scala Case Class-

Deep Copy

A shallow copy, however, is one where changes to the copy don't reflect in the original.

Scala Case class

I think there deep copy definition is wrong

Reply

**hari**

🕒 June 30, 2018 at 2:36 pm

sorry other way around

Reply

**Data Flair**

🕒 August 2, 2018 at 6:24 pm

We Appreciate your

Observation on “Scala Case Class”. We have update our content. “Since a dee

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copy copies  
another  
object,  
altering the  
object will not  
alter the  
original  
object. This  
isn't the san  
with a shall  
copy, where  
you make  
changes to a  
object, it wil  
affect the  
original

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and Keep  
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[Reply](#)

**Sonali**

🕒 [July 23, 2018 at 6:17](#)  
[pm](#)

Deep copy and  
shallow copy  
explanations are qu  
confusing .

[Reply](#)

**Data Flair**

🕒 [August 2,](#)  
[2018 at 6:42](#) [am](#)

Thanks Sonali  
to give us  
chance to  
solve your  
query on  
“Scala Case

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Class”.

A shallow co  
duplicates  
very little. It  
copies the  
structure, not  
the values.

Two objects  
where one is  
the shallow  
copy to  
another, sha  
values. Hen  
changing on  
will change  
another.

However, a  
deep copy  
duplicates  
everything.  
Since it  
duplicates all  
values too,   
changes to it  
will not affe  
the original  
object.”

Hope we sol  
your query,  
you should  
also try the  
[Scala Quiz](#) t  
explore and  
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Programming

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**Hadi**

🕒

[Dece](#)

[28, 2](#)

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[at 2:2](#)

[am](#)

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[Reply](#)



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interacting with
copy operation creates a new compound object
inserts
Scala deed

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III

4

to  
the  
new  
compound  
object  
do  
reflect

the

**Steve**

🕒 January 3, 2019 at  
10:42 pm

#5 isn't accurate. U  
`eq` instead of `==`

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for equality in Scala

Check out

<https://docs.scala-lang.org/glossary/#equality>

Reply

**DataFlair**



**Team**

🕒 February 2  
2019 at 5:08 PM

Thanks, Steve  
to comment  
and connect  
with DataFlair  
with this Scala  
case classes  
tutorial.

Indeed, the  
'eq' method is  
great with  
reference  
equality. It  
however, can  
be risqué to  
throw it  
around unless  
you know  
exactly how  
works. To  
keep things  
simple, we use  
the ==  
operator  
instead in our  
example. It  
also works  
well with nullable  
references.  
Hope, it will

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help you!

Regards,

DataFlair

[Reply](#)

**ramesh**

🕒 [January 27, 2019 at 7:09 pm](#)

my kind request for  
and white color  
background is not  
good to see the  
texts.....

[Reply](#)

**DataFlair**



**Team**

🕒 [January 30, 2019 at 12:28 pm](#)

Hi Ramesh,  
Thanks for the  
suggestion.

We  
continuously  
strive to  
improve the  
experience f  
our users.

Soon, we wi  
provide you  
with The Be  
Learning  
Platform.

Regards,

DataFlair

[Reply](#)

**mahendra**

🕒 [March 19, 2019 at 3:00 pm](#)



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Using copy method we can create another instance of scala case class object, In this case if we change the copied instance, then changes will get reflected in original instance also, then how original scala case class becomes Immutable one..?

[Reply](#)

**Ravi**

🕒 [July 11, 2019 at 3:0 am](#)

1. Why do we need Case Class copy with constructor?
2. How it is different than creating a separate case class with same number of constructor arguments with different values?
3. When you create Case Class object from original object with different value original object contains original value and new object contains the newer values specified while creating case class object; however as per description about doing a shallow copy

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with “copy” method should create two different case class objects with same values. Could you please explain this behavior?

4. I tried modifying the value of new Ca Class object which was copied from original and it threw error saying “reassignment to va Could you please explain this behavior?

[Reply](#)

**vishal**

🕒 [February 20, 2020 at 8:23 pm](#)

according to your definition Scala must follow the deep copy not shallow copy. But you mentioned scala follow shallow copy Is it not confusing.?

[Reply](#)

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**Name \***

**Email \***

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