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## How to change legend title in ggplot (density)



I have the following plot like below. It was created with this command:

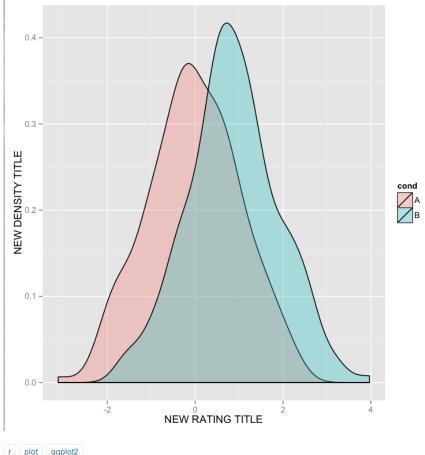
```
>>library(ggplot2)
>df <- data.frame(cond = factor( rep(c("A","B"), each=200) ), rating =
c(rnorm(200),rnorm(200, mean=.8)))
>ggplot(df, aes(x=rating, fill=cond)) + geom_density(alpha=.3)+xlab("NEW RATING
TITLE")+ylab("NEW DENSITY TITLE")
```

Now next thing I want to do is to modify the *legend title* from **cond** into **NEW LEGEND TITLE** 

So what I did is to just add the following line add the end of the above code:

```
+labs(colour="NEW LEGEND TITLE")
```

But it doesn't work. What's the right way to do it?



edited Jan 31 '13 at 9:47

edited Jan 31 '13 at 9:47

asked Jan 31 '13 at 9:31

neversaint

8,548 41 136 223

labs(fill="xyz") should do — baptiste Aug 23 '13 at 16:54

## 3 Answers

```
This should work:
```

answered Jan 31 '13 at 9:35



2 Another alternative is p\$labels\$fill <- "New Legend Title" - Alex Holcombe Aug 31 '15 at 5:51

what is the difference between guides and scale\_fill\_discrete - Medhat Helmy Dec 29 '15 at 13:02

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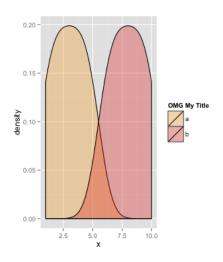




Since you have two densitys I imagine you may be wanting to set your own colours with  $scale\_fill\_manual$ .

If so you can do:

```
df <- data.frame(x=1:10,group=c(rep("a",5),rep("b",5)))
legend_title <- "OMG My Title"
ggplot(df, aes(x=x, fill=group)) + geom_density(alpha=.3) +
    scale_fill_manual(legend_title,values=c("orange","red"))</pre>
```



answered Jan 31 '13 at 9:39



There's another very simple answer which will probably work for any graph. Just add a call to guide\_legend() into your graph.

```
{\tt ggplot}(\dots) \ + \ \dots \ + \ {\tt guide\_legend}({\tt title="my} \ {\tt awesome} \ {\tt title"})
```

As shown in the very nice ggplot docs.

answered Aug 23 '13 at 16:49

Yourpalal
160 7

<sup>4</sup> doesn't work when there is more than one legend. – Roy Sep 1 '13 at 15:29

<sup>14</sup> This did not work for me, but qplot(...) + guides(color=guide\_legend(title="sale year")) worked – Amaud Amzallag Feb 24 '14 at 2:55