

How to add a label to an abline in R?

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To add a label to an abline in R, follow these steps:

1. First, create a plot using the `plot()` function.
2. Use the `abline()` function to add an abline to the plot.
3. Use the `text()` function to add a label to the abline.
4. Specify the coordinates for the label using the `x` and `y` arguments of the `text()` function.
5. Customize the label by specifying the font size, color, and style using the `cex`, `col`, and `font` arguments.
6. Use the `adj` argument to adjust the position of the label.
7. Finally, add any necessary axis labels and a plot title to complete the plot.

Add Label to abline in R (With Examples)

The `abline()` function in R can be used to add a straight line to a plot in R.

To add a label to an abline, you can use the `text()` function with the following basic syntax:

```
text(x, y, 'my label')
```

where:

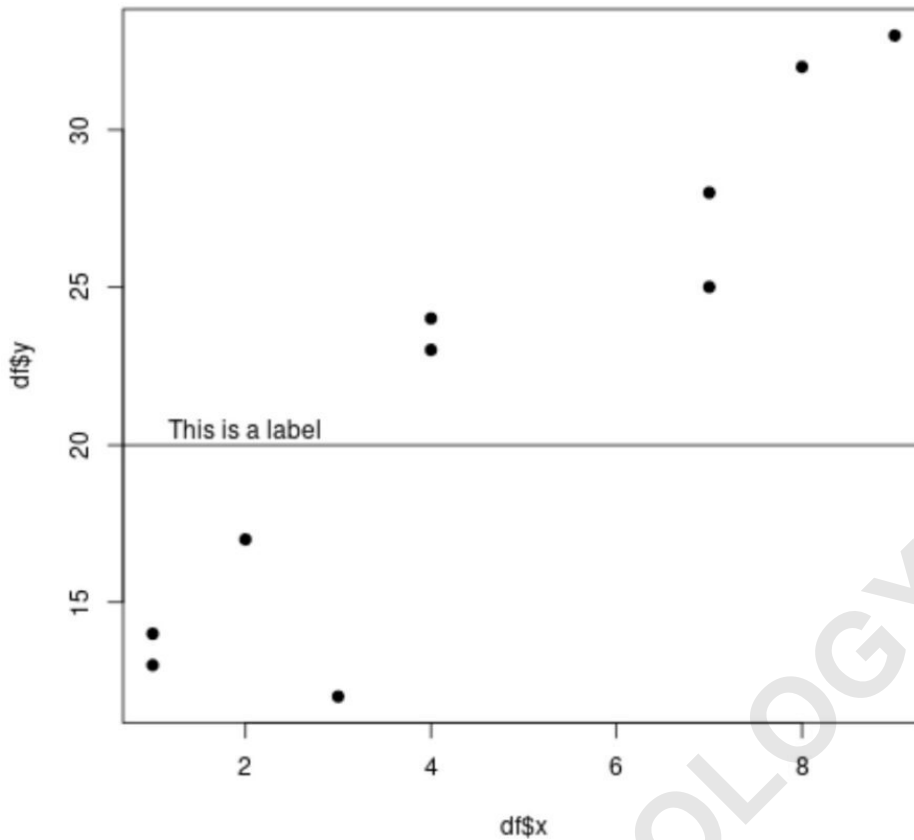
x, y: The (x, y) coordinates where the label should be placed.

The following examples show how to use the `text()` function to add a label to a horizontal abline and vertical abline.

Example 1: Add Label to Horizontal abline in R

The following code shows how to create a scatterplot with a horizontal line at $y=20$ and a label:

```
#create data frame  
df <- data.frame(x=c(1, 1, 2, 3, 4, 4, 7, 7, 8, 9),  
y=c(13, 14, 17, 12, 23, 24, 25, 28, 32, 33))  
  
#create scatterplot of x vs. y  
plot(df$x, df$y, pch=19)  
  
#add horizontal line at y=20  
abline(h=20)  
  
#add label to horizontal line  
text(x=2, y=20.5, 'This is a label')
```



Notice that a label has been added just above the horizontal abline in the plot.

Also note that you can use the `col` and `cex` arguments in the `text()` function to modify the color and size of the label, respectively:

```
#create data frame
```

```
df <- data.frame(x=c(1, 1, 2, 3, 4, 4, 7, 7, 8, 9),  
y=c(13, 14, 17, 12, 23, 24, 25, 28, 32, 33))
```

```
#create scatterplot of x vs. y
```

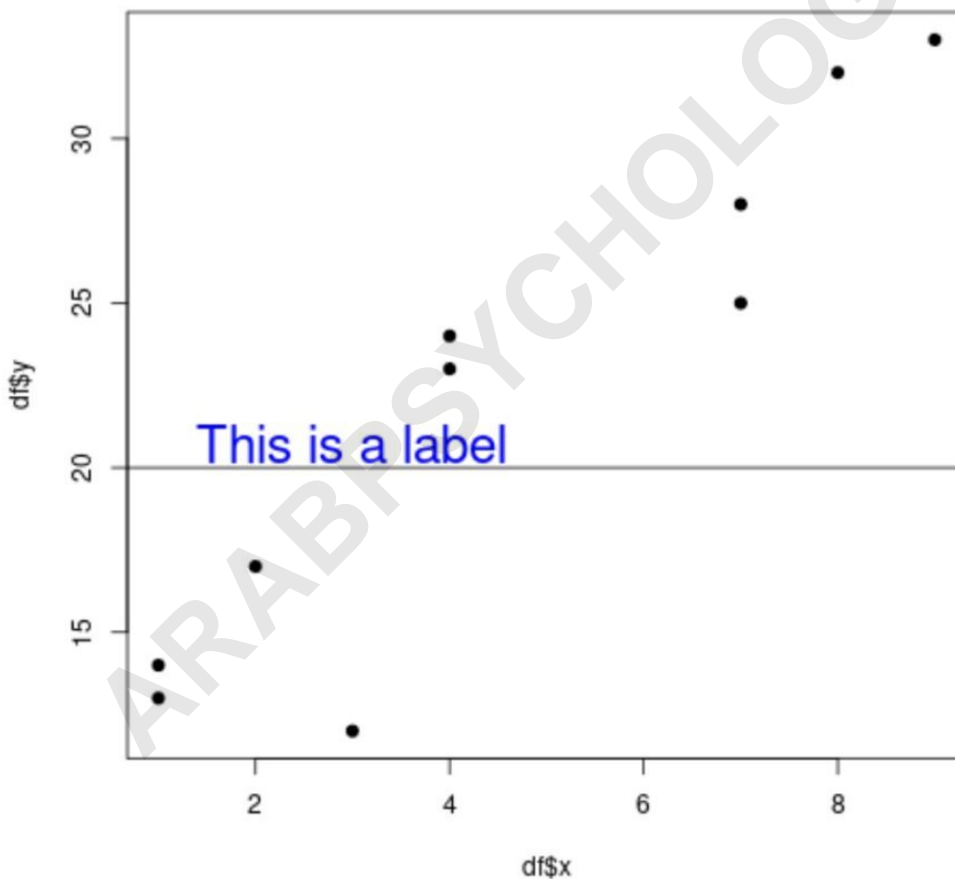
```
plot(df$x, df$y, pch=19)
```

```
#add horizontal line at y=20
```

```
abline(h=20)
```

```
#add label to horizontal line (with blue color and double  
the font size)
```

```
text(x=3, y=20.7, 'This is a label', col='blue', cex=2)
```



Notice that the label is now blue and the font size is twice as large as the previous example.

Example 2: Add Label to Vertical abline in R

```
#create data frame
```

```
df <- data.frame(x=c(1, 1, 2, 3, 4, 4, 7, 7, 8, 9),  
y=c(13, 14, 17, 12, 23, 24, 25, 28, 32, 33))
```

```
#create scatterplot of x vs. y
```

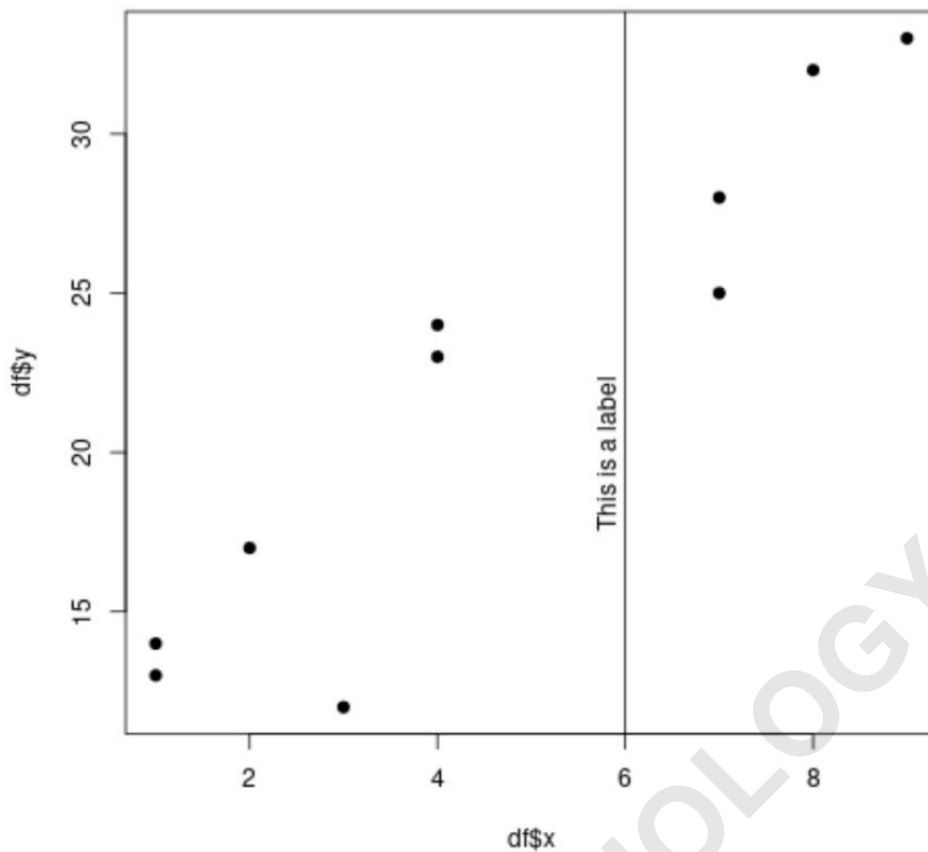
```
plot(df$x, df$y, pch=19)
```

```
#add vertical line at x=6
```

```
abline(v=6)
```

```
#add label to vertical line
```

```
text(x=5.8, y=20, srt=90, 'This is a label')
```



Notice that a label has been added just to the left of the vertical abline in the plot.

Note: The argument `srt=90` in the `text()` function rotates the label 90 degrees.