

How can points be added to an existing plot in R?

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Points can be added to an existing plot in R by using the `plot()` function and specifying the "points" argument. This argument takes in the coordinates of the points to be added and can also include other parameters such as color, size, and shape of the points. Alternatively, the points can also be added using the `points()` function, which allows for more customization options such as adding labels and changing the appearance of individual points. Both of these methods can be used to enhance the visual representation of data in an existing plot in R.

Add Points to an Existing Plot in R

You can use the `points()` function to add points to an existing plot in R.

This function uses the following basic syntax:

```
points(df2$x, df2$y, col='red')
```

This particular syntax adds red points to an existing scatter plot in R using the variables called `x` and `y` from a data frame called `df2`.

The following example shows how to use this syntax in practice.

Example: Add Points to an Existing Plot in R

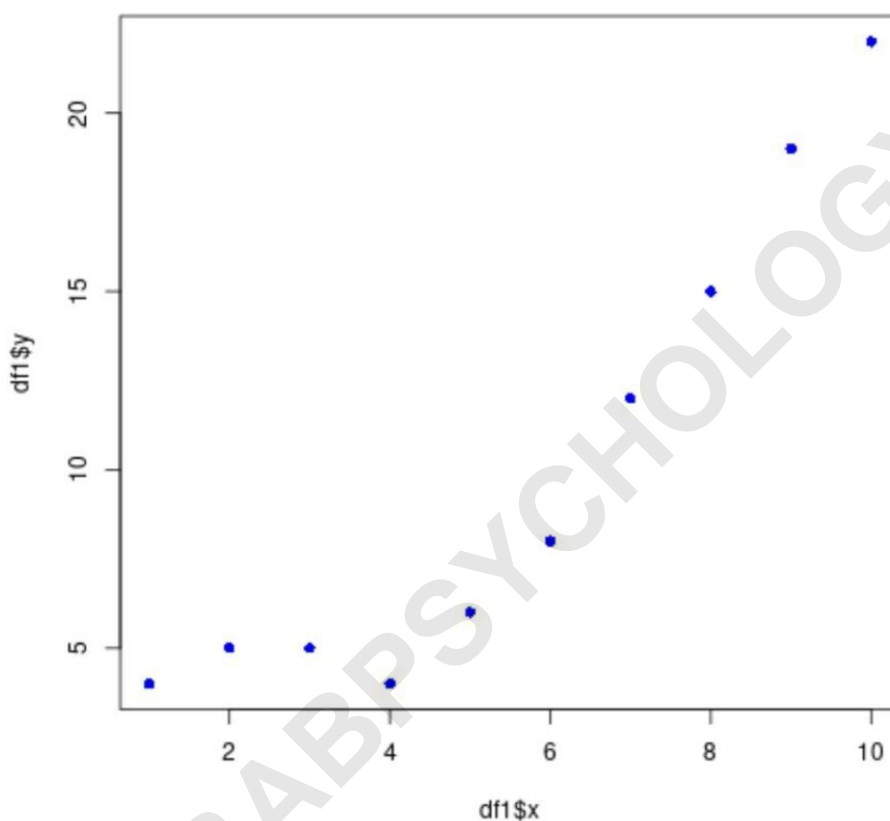
Suppose we use the `plot()` function to create the following scatter plot in R:

```
#create data frame
```

```
df1 <- data.frame(x=c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10),  
y=c(4, 5, 5, 4, 6, 8, 12, 15, 19, 22))
```

```
#create scatterplot
```

```
plot(df1$x, df1$y, col='blue', pch=16)
```



Note: The `col` argument specifies the color of the points in the plot and the `pch` argument specifies the symbol to use. A value of 16 represents a filled-in circle.

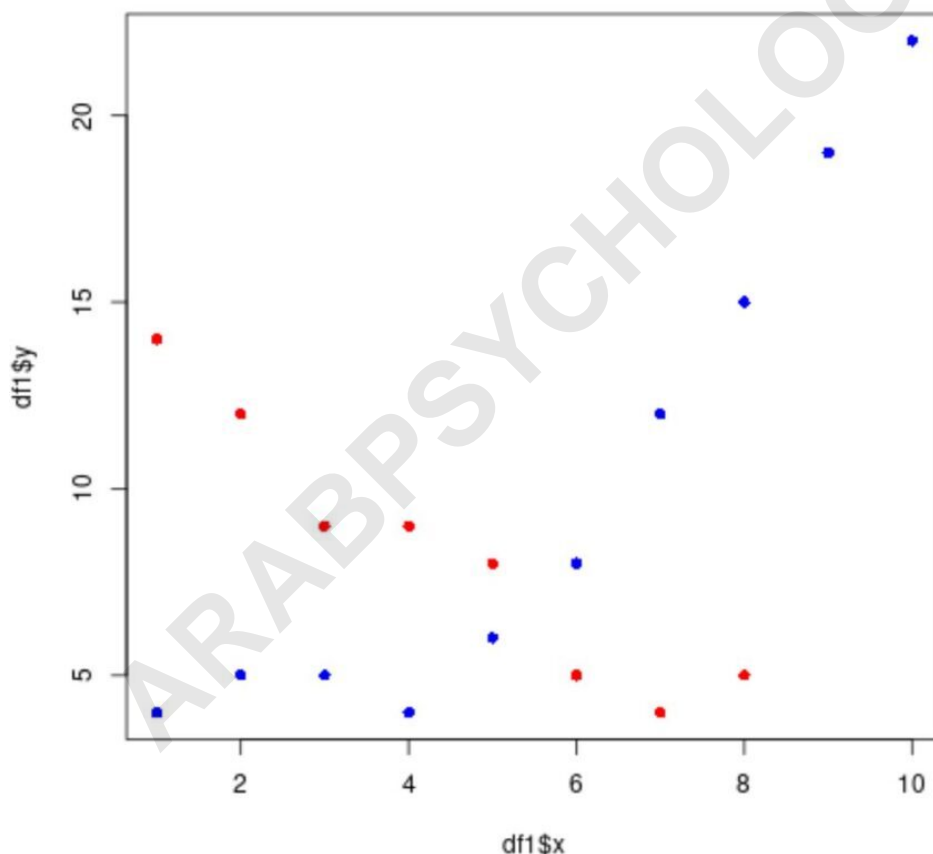
Now suppose that we would like to add points from another data frame to the plot.

We can use the `points()` function to do so:

```
#create second data frame
```

```
df2 <- data.frame(x=c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10),  
y=c(14, 12, 9, 9, 8, 5, 4, 5, 3, 2))
```

```
#add points from df2 to the existing scatter plot  
points(df2$x, df2$y, col='red', pch=16)
```



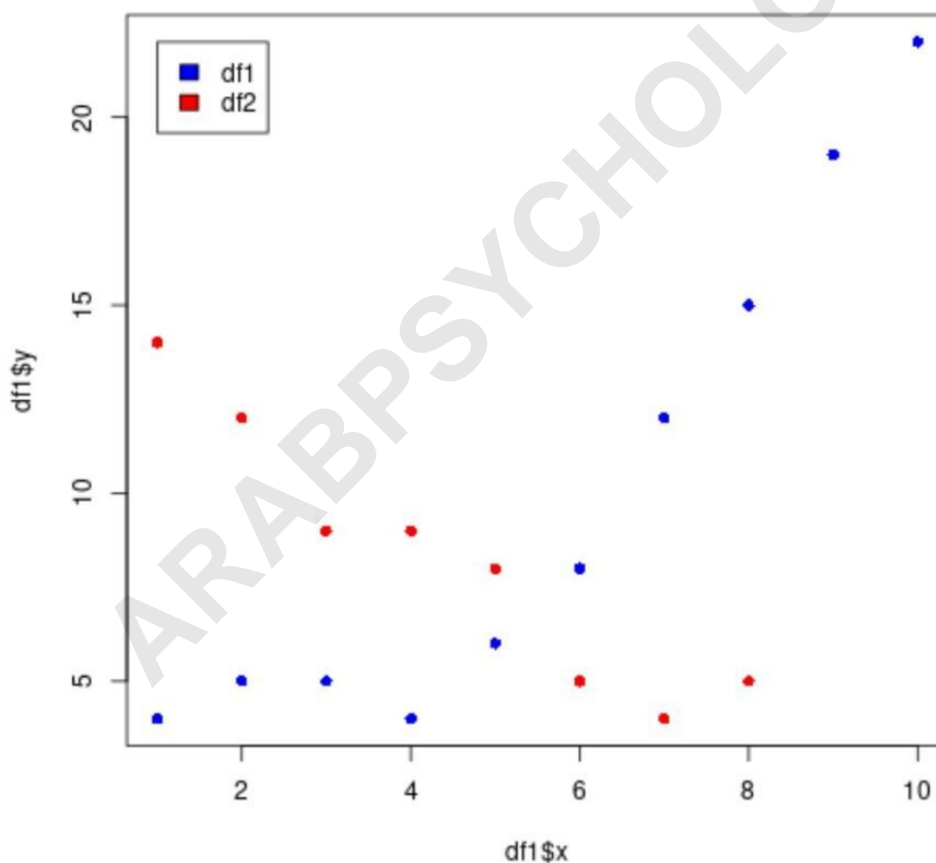
Notice that the points from the second data frame have been added to the existing plot and are represented by

a red color.

If we'd like, we can also use the `legend()` function to add a legend to the plot so that we can distinguish which points came from which data frame:

```
#add legend to plot
```

```
legend(x=1, y=22, legend=c('df1', 'df2'), fill=c('blue', 'red'))
```



Note: You can use the `points()` function as many times

as you'd like to add points from as many data frames as you'd like to an existing plot.

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