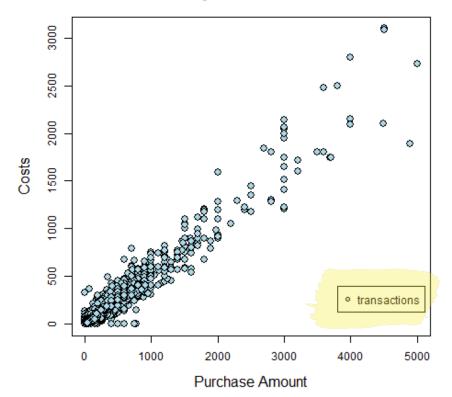
Adding further features to plots

### Further improve the aesthetic features of a plot: Add a legend to make your plot self-explanatory

**Costs by Purchase Amount** 

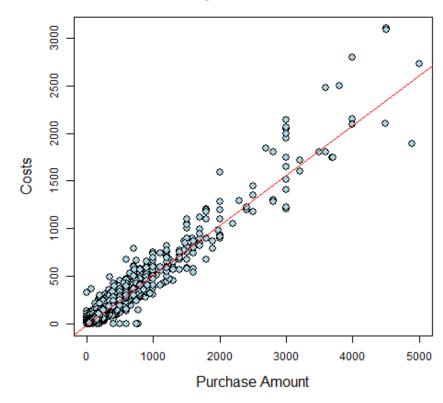


The first numbers indicate x and y coordinates of the legend (upper left edge). You can also specify, e.g., "bottomright".

```
plot(x=myData[, PurchAmount], y=myData[, Cost],.....)
legend(3800, 400, "transactions", pch=21, pt.bg="lightblue")
```

### Further improve the aesthetic features of a plot: Lines can be added for extra information

**Costs by Purchase Amount** 

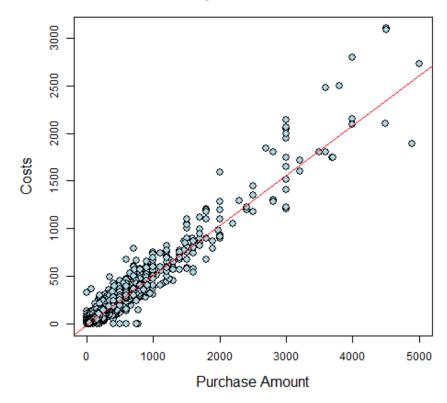


Draw the regression line: y= a + b\*x a = Slope b = Intercept

plot(x=myData[, PurchAmount], y=myData[, Cost],.....)
abline(lm(myData[, Cost] ~ myData[, PurchAmount]), col="red")

### Further improve the aesthetic features of a plot: Lines can be added for extra information

**Costs by Purchase Amount** 



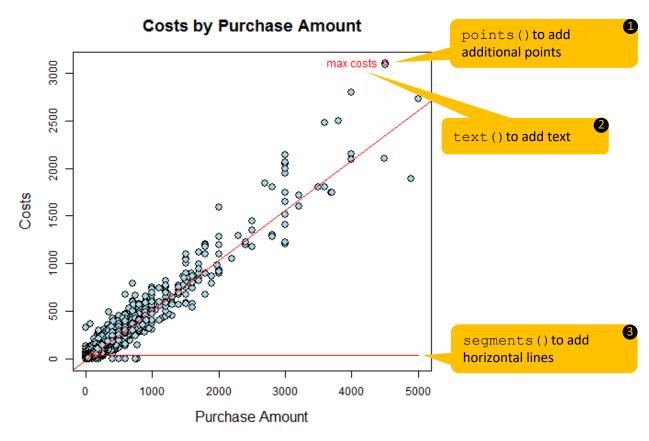
Draw the regression line: y= a + b\*x a = Slope b = Intercept

Specify the line color

```
plot(x=myData[, PurchAmount], y=myData[, Cost],.....)
abline(lm(myData[, Cost] ~ myData[, PurchAmount]), col="red")
```

To the left of the ~-operator you specify the dependent variable and to the right the explanator variables

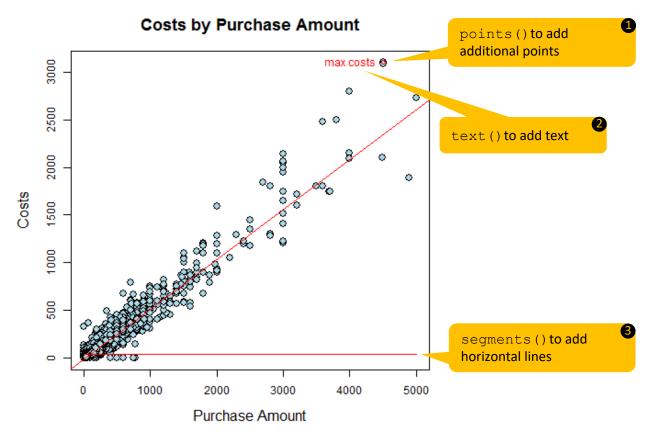
## Additional graphical elements can be added in the same fashion



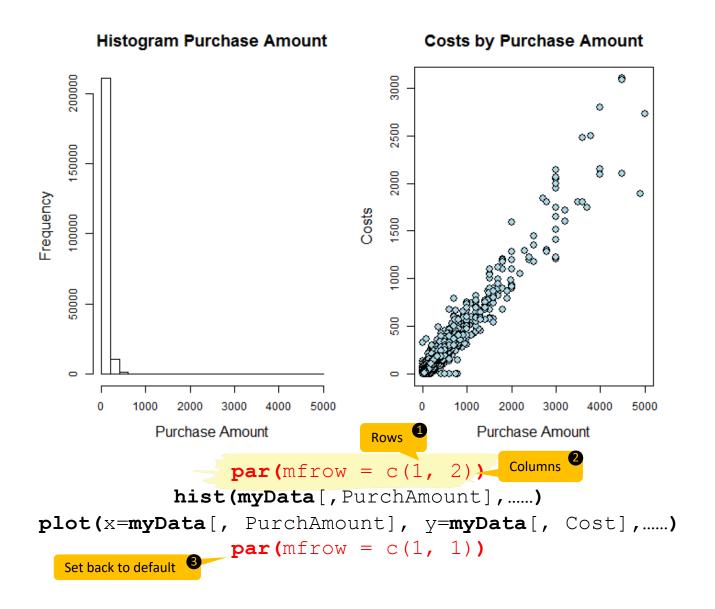
## Additional graphical elements can be added in the same fashion



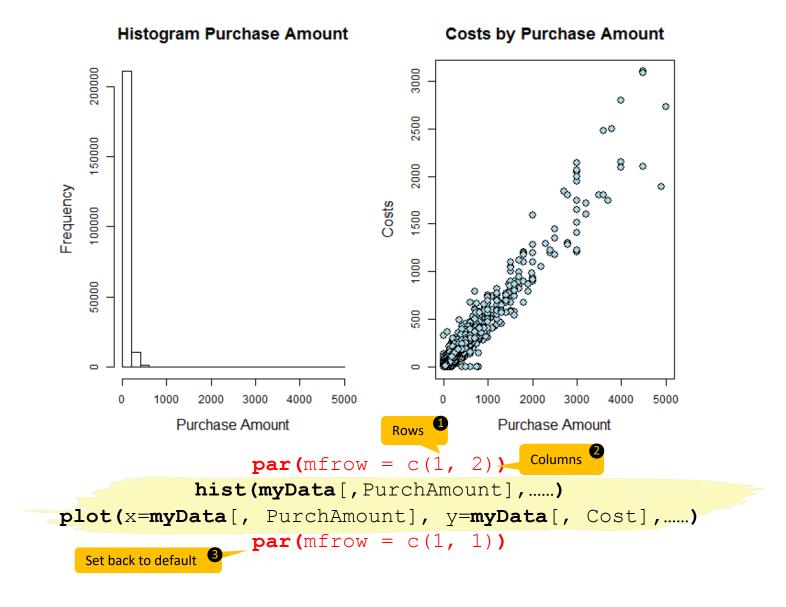
## Additional graphical elements can be added in the same fashion



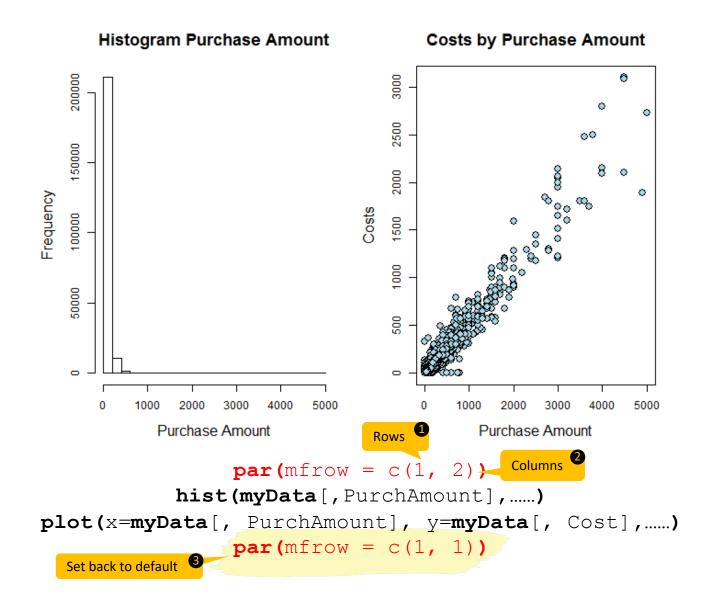
#### You might want to plot multiple graphs in one image



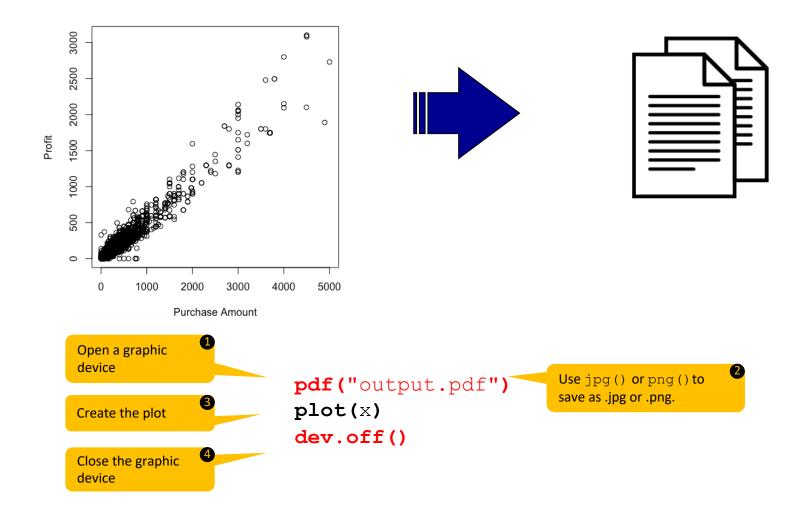
#### You might want to plot multiple graphs in one image



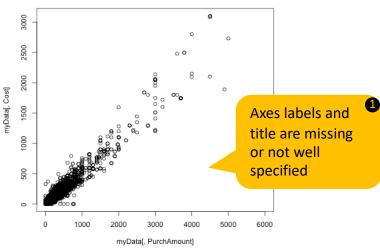
#### You might want to plot multiple graphs in one image



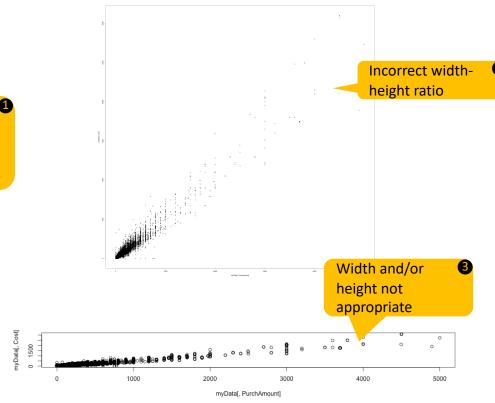
Step 6: Save your plot using the command line



# Be careful: Saving the plot with the wrong specifications can ruin your hard work!



- Advice 1: The point-and-click method helps to avoid this.
- Advice 2: Always save and comment your code, so that you can modify simple changes with few effort.



Adding further features to plots