The basic R plotting

**Step 1:**

Load the R01\_3\_1\_plot().R

**Step 2:**

Run the script

**Result:**

A screenshot of a computer

Description automatically generated

**Step 3:**

Try run the lines:

* Click the line you want to run
* Press the run
* R studio run it line by line

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| # File: Plot.R  # Course: R: An Introduction (with RStudio)  # LOAD DATASETS PACKAGES ###################################  print("Loading the 'datasets' package")  library(datasets) # Load/unload base packages manually  print("Done loading")  print("Using head function to display the first few rows of iris dataset")  head(iris)  print("Done the display")  ?plot # Help for plot()  plot(iris$Species) # Categorical variable  plot(iris$Petal.Length) # Quantitative variable  plot(iris$Species, iris$Petal.Width) # Cat x quant  plot(iris$Petal.Length, iris$Petal.Width) # Quant pair  plot(iris) # Entire data frame  # Plot with options  plot(iris$Petal.Length, iris$Petal.Width,  col = "#cc0000", # Hex code for datalab.cc red  pch = 19, # Use solid circles for points  main = "Iris: Petal Length vs. Petal Width",  xlab = "Petal Length",  ylab = "Petal Width")  # PLOT FORMULAS WITH PLOT() ################################  plot(cos, 0, 2\*pi)  plot(exp, 1, 5)  plot(dnorm, -3, +3)  # Formula plot with options  plot(dnorm, -3, +3,  col = "#cc0000",  lwd = 5,  main = "Standard Normal Distribution",  xlab = "z-scores",  ylab = "Density")  # CLEAN UP #################################################  # Clear packages  detach("package:datasets", unload = TRUE)  # Clear plots  dev.off() # But only if there IS a plot  # Clear console  cat("\014") # ctrl+L  # Clear mind :) |

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|  | Get help for plot function |
|  | Visualize in histogram if categorical passed |
|  | Visualize the length in term of scatter plot |
|  | If plot x = quantity  If plot y = continuous  Then will result in box plot. |
|  | If plot x = quant  Y = quant then  Scatter plot |
|  | If plot whole data frame then result in many scatter plot  Usually var of continuous against continuous |
|  | Plot two continuous = scatter … but with formatting.  Pch = plotting character. |
|  | Also can plot cos function with cycle  Lwd = line width |
|  |  |
|  |  |
|  | Col = colour |
| # CLEAN UP #################################################  # Clear packages  detach("package:datasets", unload = TRUE)  # Clear plots  dev.off() # But only if there IS a plot  # Clear console  cat("\014") # ctrl+L  # Clear mind :) |  |