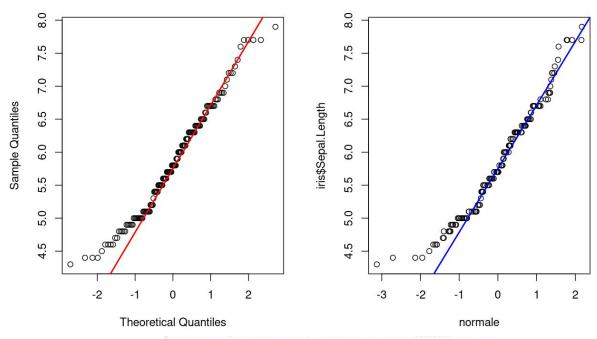
Ex.6 and QQ plots shenanigans

a presentation by Giovanni Santantonio

- 1) Generate QQ plots for Sepal Width and Petal Width.
- 2) Compare them with the QQ plot for Sepal Length and discuss which variable appears to be the most normally distributed based on the QQ plots.

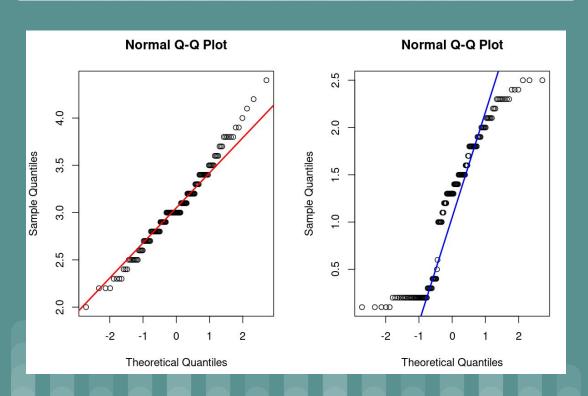
What is a Quantile Quantile plot?

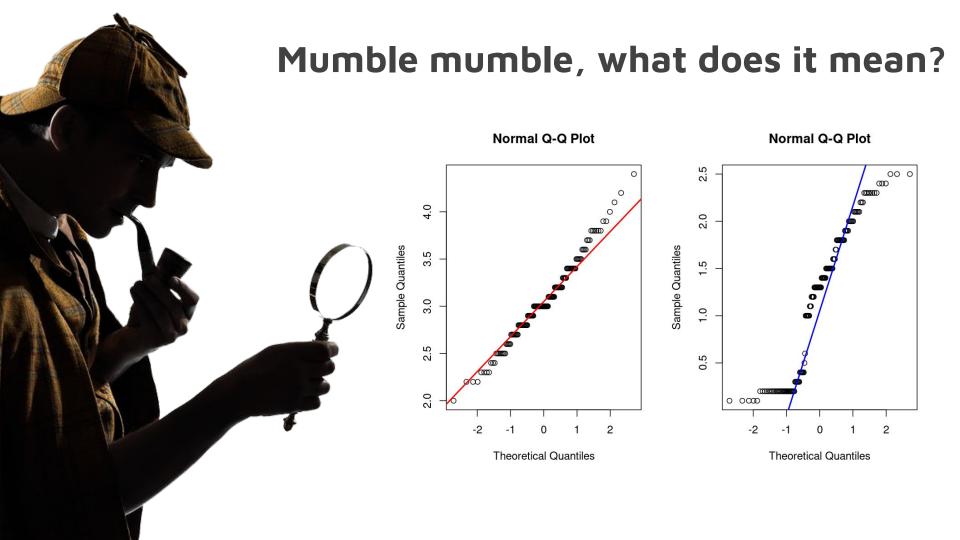
Compares a distribution (y axis) With a normal distribution (x axis)



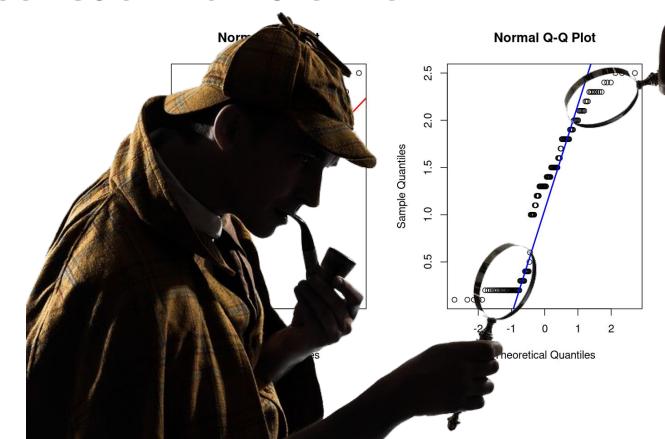
normale <- rnorm(150, mean=0, sd=1) $par(mfrow = c(1,2)) \ \# \ to \ display \ two \ graphs \ one \ beside the \ other \\ qqnorm(iris$Sepal.Length, ylab="Sepal Length") \\ qqline(iris$Sepal.Length, lwd=2, col="ed") \ \# \ this \ graph$

qqnorm(iris\$Sepal.Width); qqline(iris\$Sepal.Width, lwd=2, col="red")
qqplot(normale, iris\$Petal.Width); qqline(iris\$Petal.Width, lwd=2, col="blue")



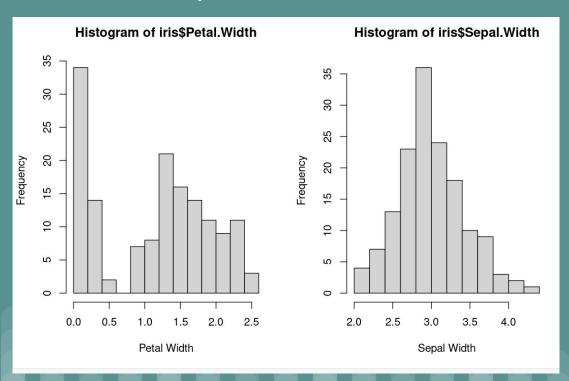


there's deviation from the line!

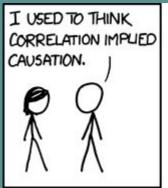


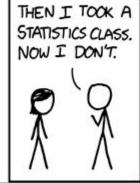
Can you guess how their distributions look like?

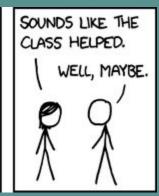
Petal Width is not normally distributed! Whereas Sepal Width is! We are done.



But remember...







Thank you!