Continuous X and Y data

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geom_point(), geom_line(), geom_qq_line()

- geom_point()
 - geom_point() makes scatter plots
- geom_line()
 - geom_line() makes line plots
- geom_qq_line()
 - geom_qq_line() makes quantile-quantile plots
 - This helps you compare multiple probability distributions

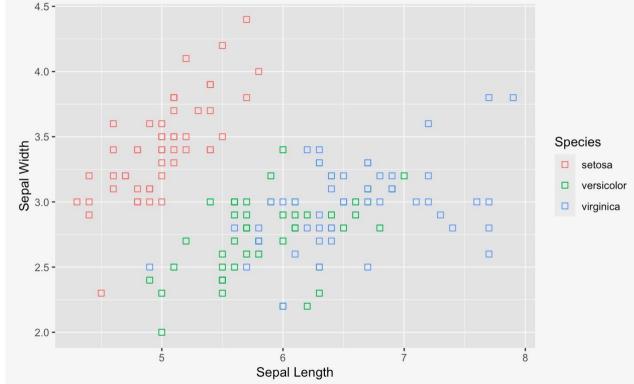
Links between 3 geoms

- Code for these 3 geoms must start with ggplot() in order for them to work
- All need numeric data on x and y axis (no character or logic)

geom_point() code and graph

This graph represents the points of 3 different species of irises and Their sepal width and lengths.

```
data("iris")
ggplot(iris, aes(x=Sepal.Length, y=Sepal.Width, col=Species)) +
  geom_point(pch=0, size=2) +
    xlab("Sepal Length") +ylab("Sepal Width")
```



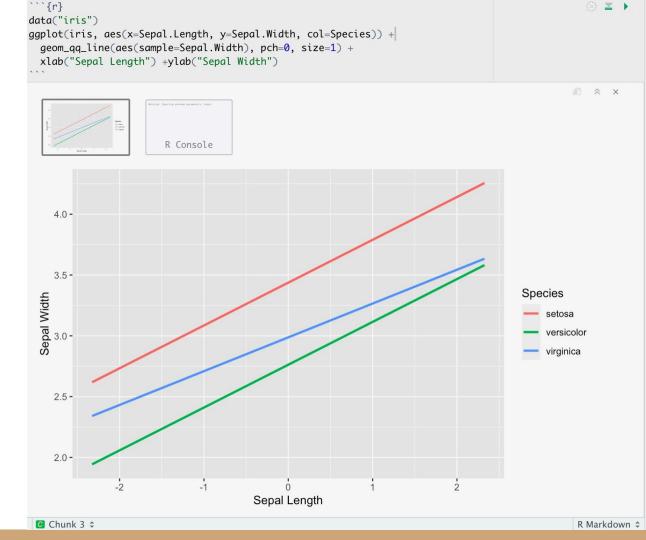
geom_line() code and graph

This graph represents the 3 species of irises sepal widths and lengths in a line graph.

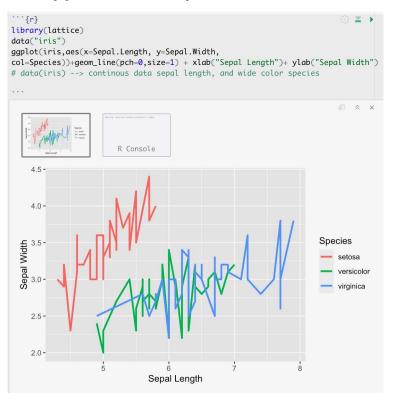


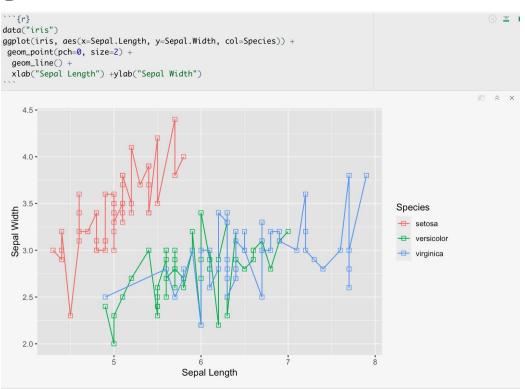
geom_qq_line() code and graph

This represents 3 species of irises and their sepal widths and lengths in a quantile-quantile way which allows us to compare multiple probability distributions.



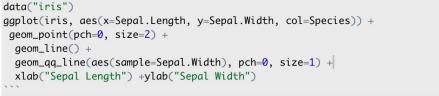
Different options to code geom_line()

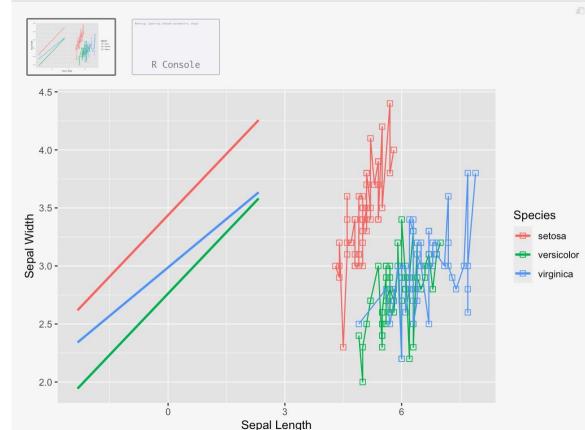




pch and size in geom_line() vs geom_point() creates slightly different graphs.

geom_point(), geom_line(), geom_qq_line()





Helpful Websites

https://ggplot2.tidyverse.org/reference/geom_point.html

https://rpubs.com/admiralbyng/geom line tutorial

https://ggplot2.tidyverse.org/reference/geom_qq.html