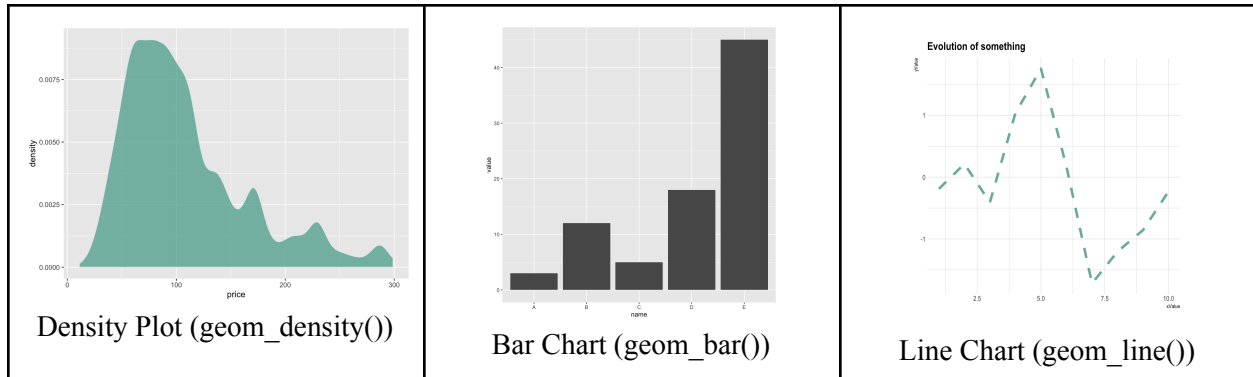


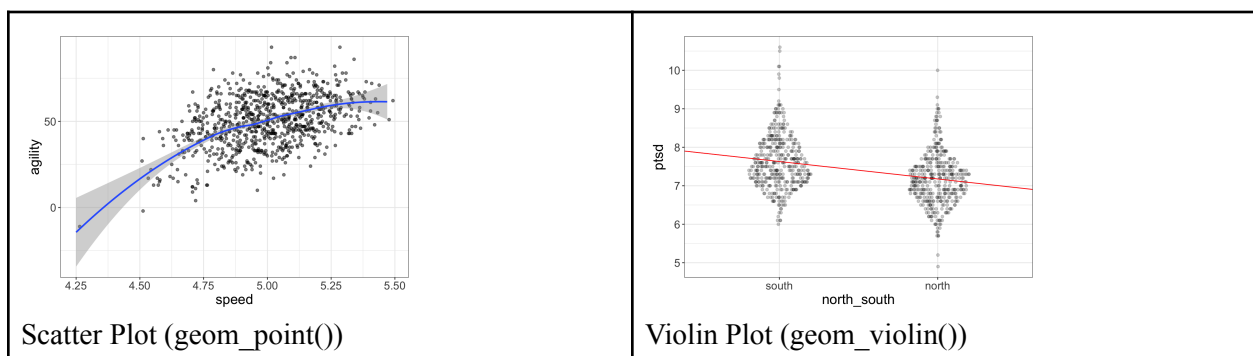
Univariate Viz

- “ggplot” – grammar of graphics
- Connects code to visual components
- Code is communication



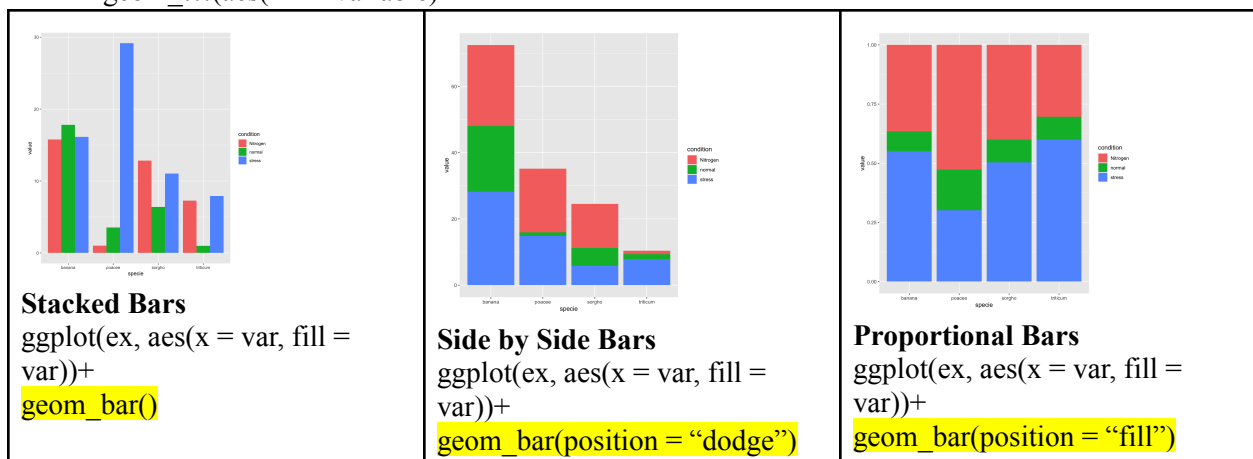
Bivariate Viz

- Helps explore relationship trends (direction and form), strength (degree of variance), outliers
- Response variable (want to explain)/Predictor variable (explains)

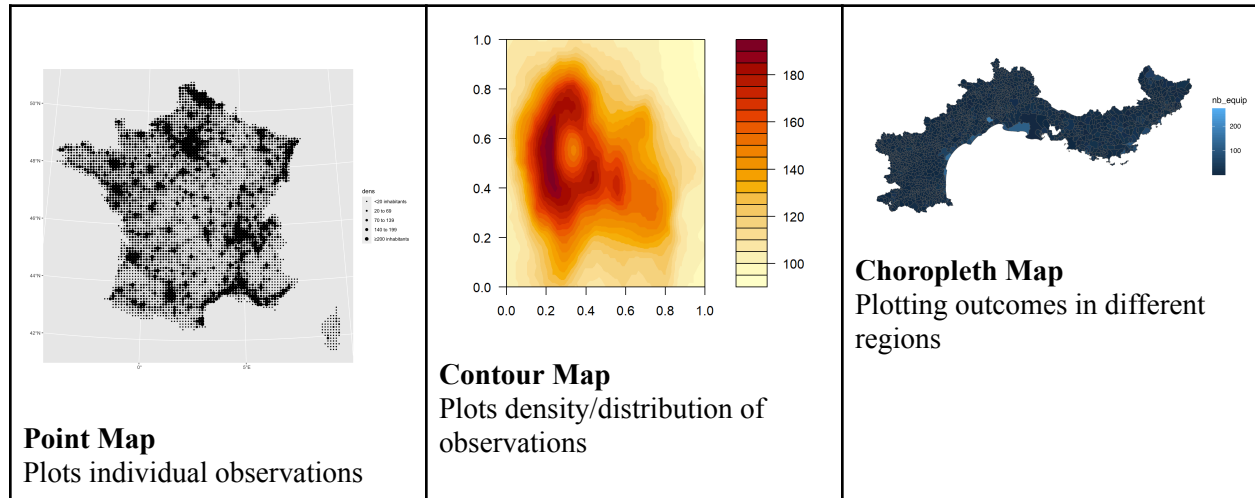


Multivariate Viz

- geom_...(fill = “blue”)
- geom_...(aes(fill = variable))



Spatial Viz



Effective Viz

- Wrong = viz is objectively incorrect
- Bad = viz is unclear/deceiving
- Ugly = viz has problematic aesthetics