

How to Choose a Chart

A Statistically Informed Visual Guide

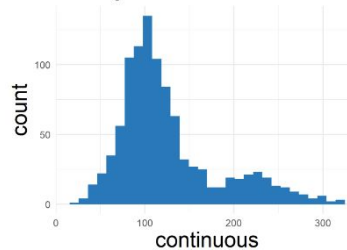


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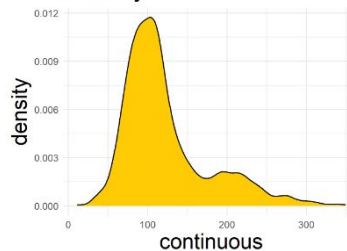
[Andrew Grogan-Kaylor](https://agrogan1.github.io/)
agrogan@umich.edu
<https://agrogan1.github.io/>

Continuous

histogram



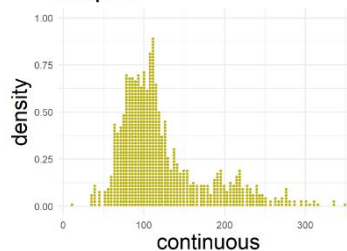
density



barchart of mean

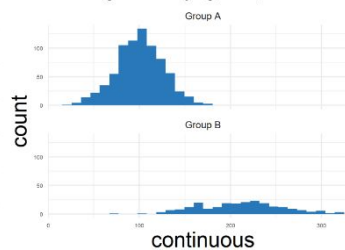


dotplot

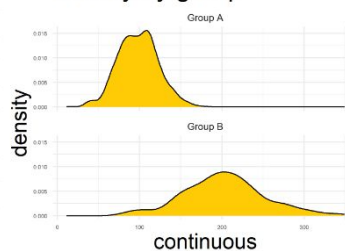


Continuous by Categorical

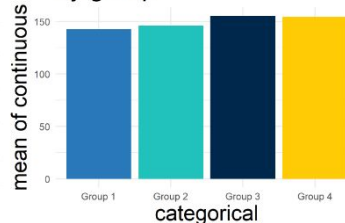
histogram by group



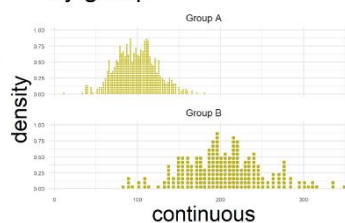
density by group



barchart of mean by group

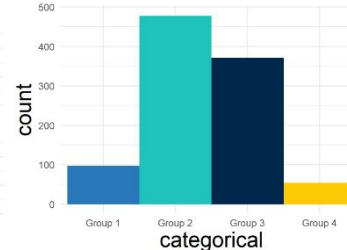


dotplot by group

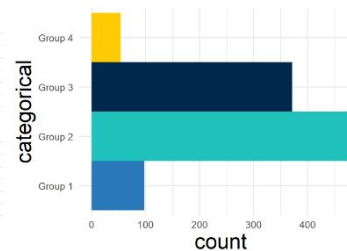


Categorical

bar chart



horizontal bar chart



pie chart

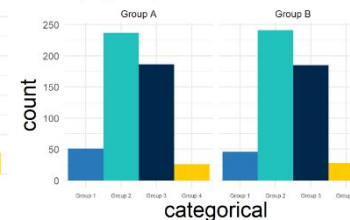


doughnut chart

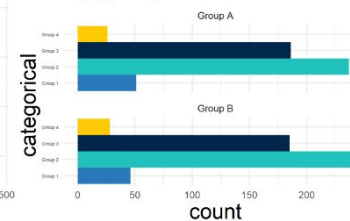


Categorical by Categorical

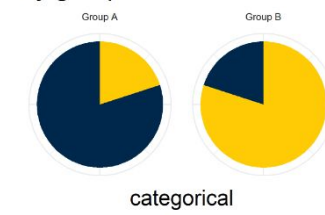
bar chart by group



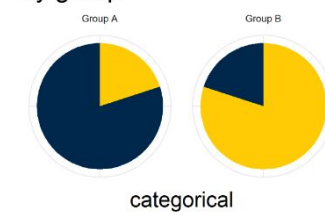
horizontal bar chart by group



pie chart by group

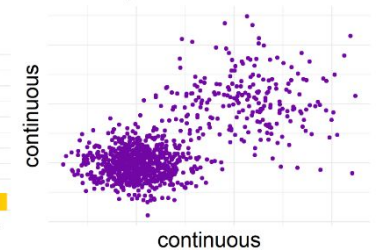


doughnut chart by group

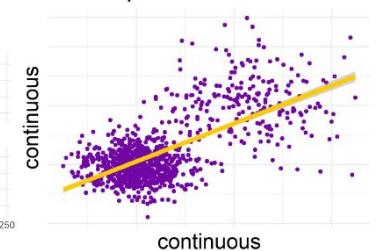


Continuous by Continuous

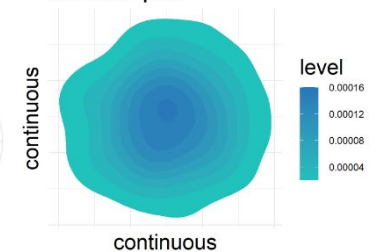
scatterplot



scatterplot with fit line



contour plot



scatterplot with smoother

