A close up of a map

Description automatically generated

1. Barplot:

A screenshot of a cell phone

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Scatter plot:

A screenshot of a cell phone

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They are telling quite different stories – barplot essentially doesn’t show any difference across four regions, while scatterplot shows very much differences.

It is because that barplot displays mean value of observations in each region, which ignores the variance within each region. However, scatterplot displays data distribution in each region clearly.