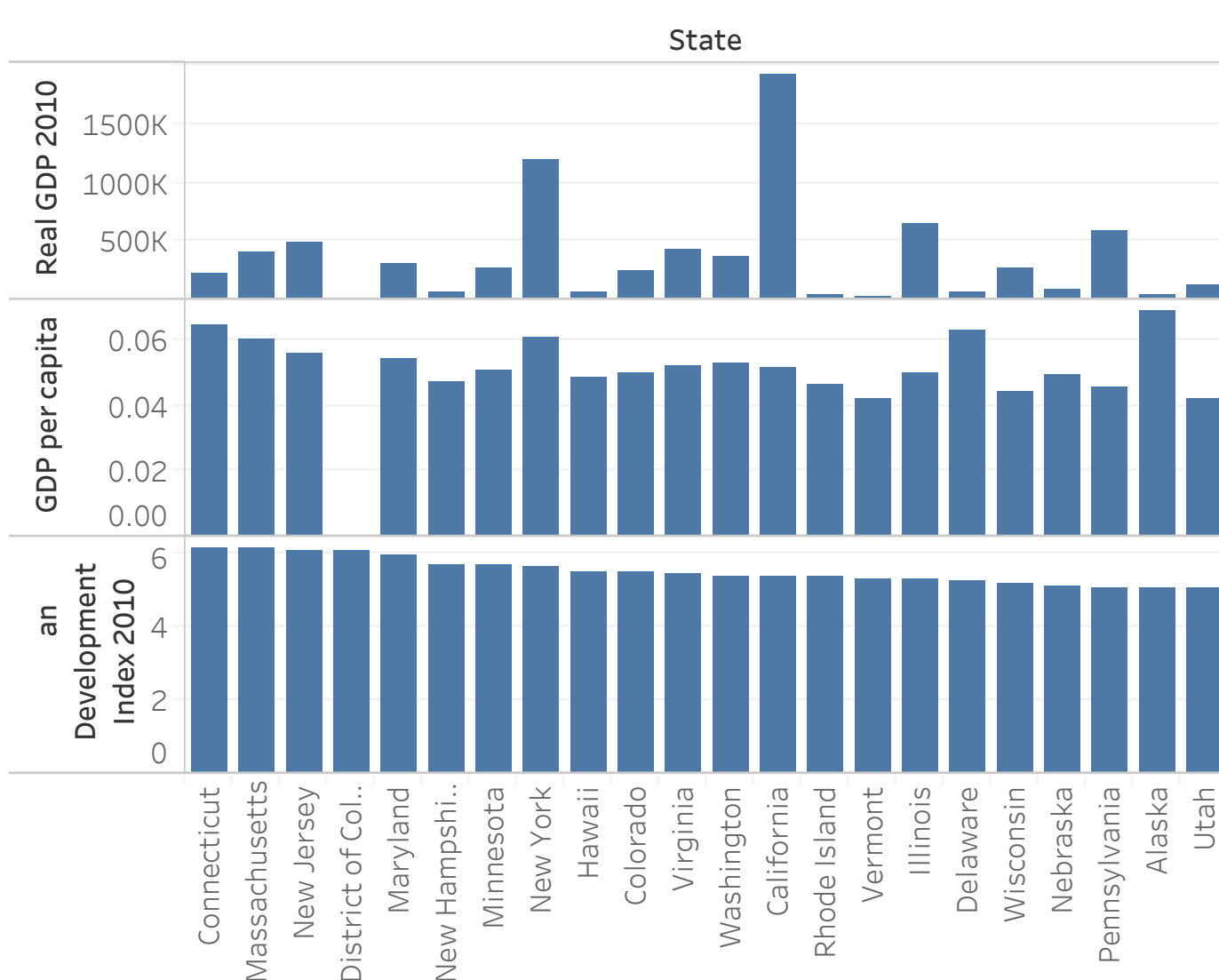


## Practical Exercise - I

Assume the given US State dataset, using this dataset do the visual analytics with respect to the following points and show your prediction results.

Do states with higher GDPs have higher Human Development Indexes? This graph will show that California has the highest real GDP, but not the highest GDP per capita. This distinction makes any difference?

**Ans :** It is not necessary for states with higher GDPs to have higher Human Development Indexes.



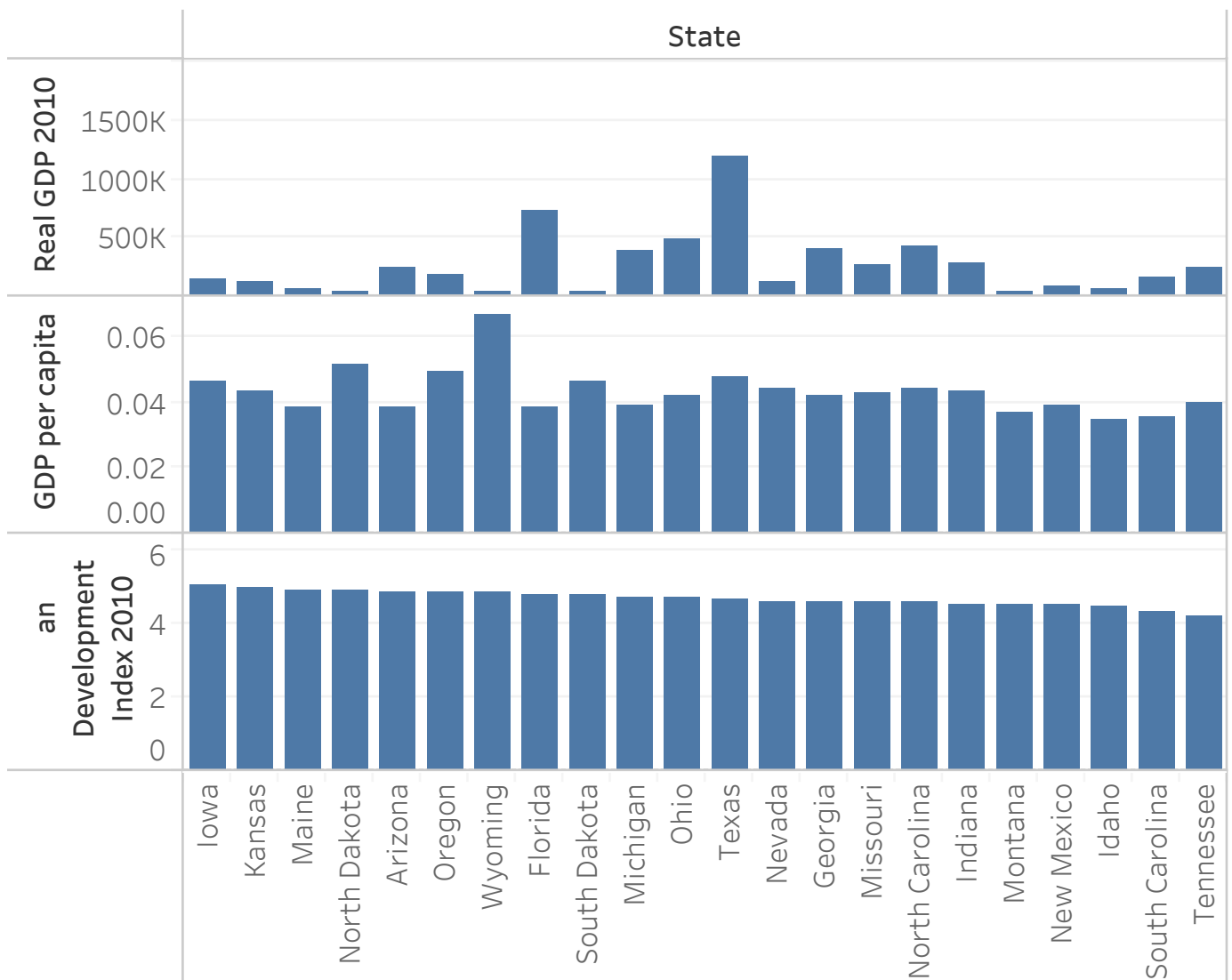
Sum of Real GDP 2010, sum of GDP per capita and sum of Human Development Index 2010 for each State.

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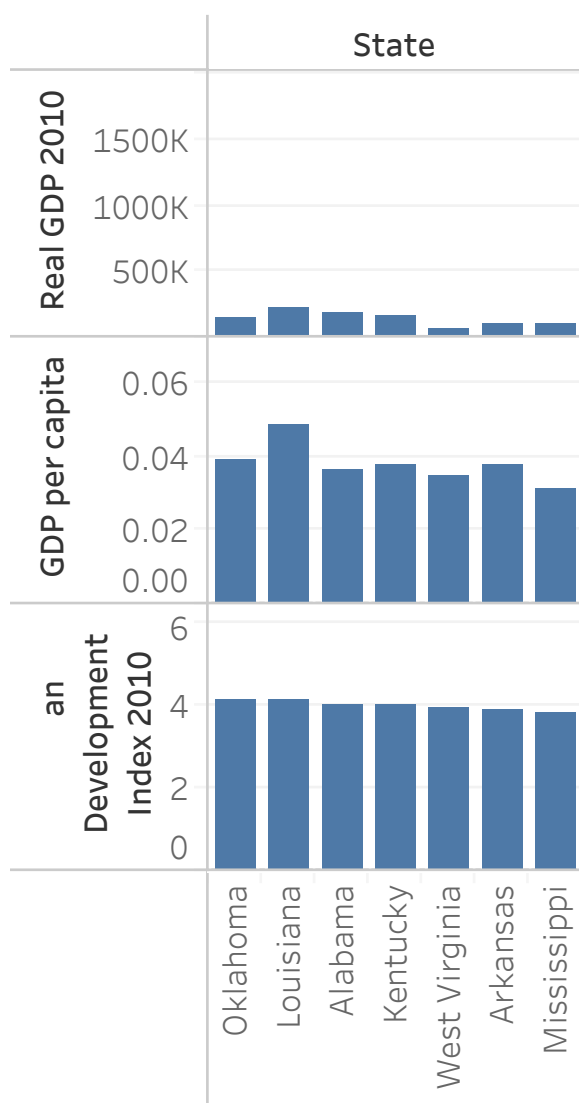
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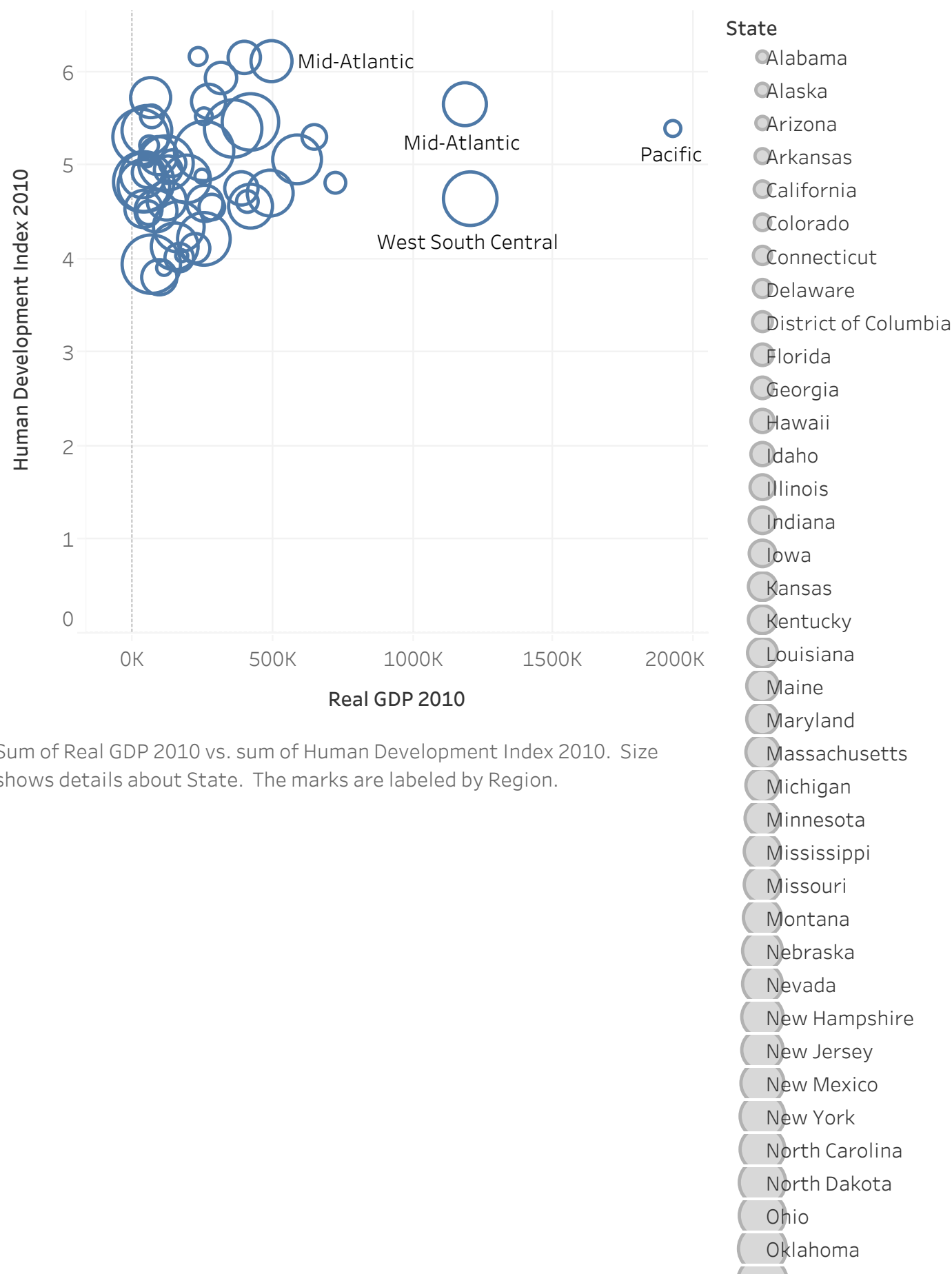
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Sum of Real GDP 2010, sum of GDP per capita and sum of Human Development Index 2010 for each State.

Let's compare the 2010 real GDP with the Human Development Index for each state. It is instantly clear that CA has the highest GDP, but not the highest HDI. Connecticut and Massachusetts have the highest HDIs, but not the highest GDPs. They both have GDPs that are higher than the median GDP. But how will this change if we look at GDP per capita instead?



Sum of Real GDP 2010 vs. sum of Human Development Index 2010. Size shows details about State. The marks are labeled by Region.