

Isha Singh

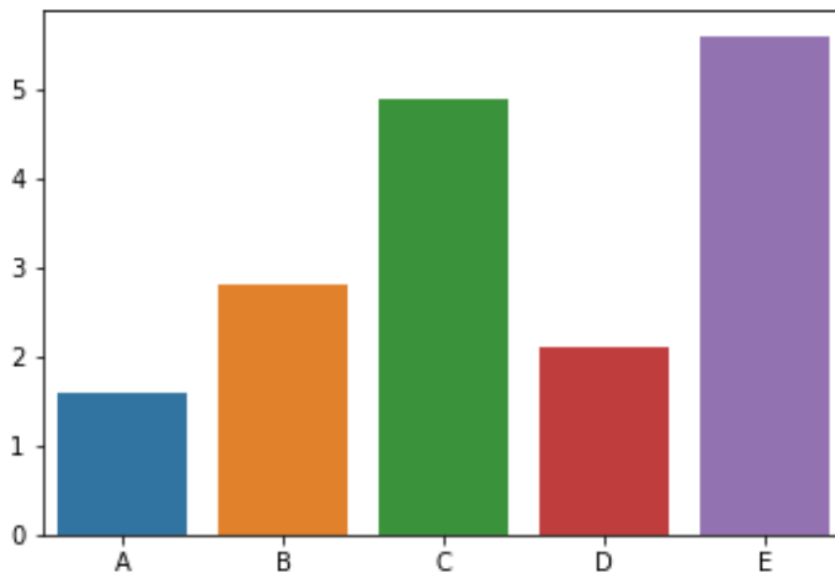
Professor Alark Joshi

CS 360 - Data Visualization

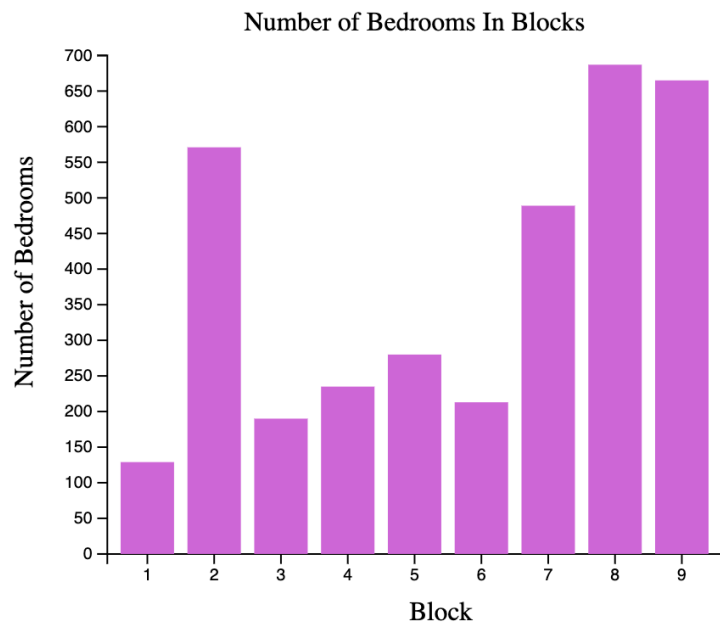
26 April 2022

### Assignment 10 - White Hat Black Hat

#### Requirement 1 (75 Points):



- This is considered a bad visualization for two reasons: legend and title. From the visualization that is shown above, we really don't know what the colors stand for nor we know what A-E is symbolized as. We can though assume that 0-5 is the height or the frequency but in this case, we cannot confirm as there are no titles. In fact, there are no titles for x,y nor the graph itself.
- To fix this issue, I have created a graph in D3 (Source: A6 & Link: <https://vizhub.com/isingh4/5cb441c2790c43c7b063e2f599635f0e>)



- Picture can be viewed above, but as you can see there are titles for this and we can clearly understand what the graph is mentioning about. In the previous image, we did not know what is going on as there were no titles. Now that we have titles and correct indication of values, we know what the story behind this graph is. In other words, I have added titles to understand what the graph is doing.

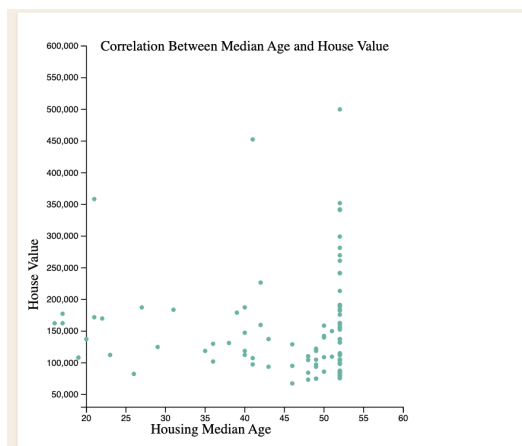
Requirement 2 (85 Points):



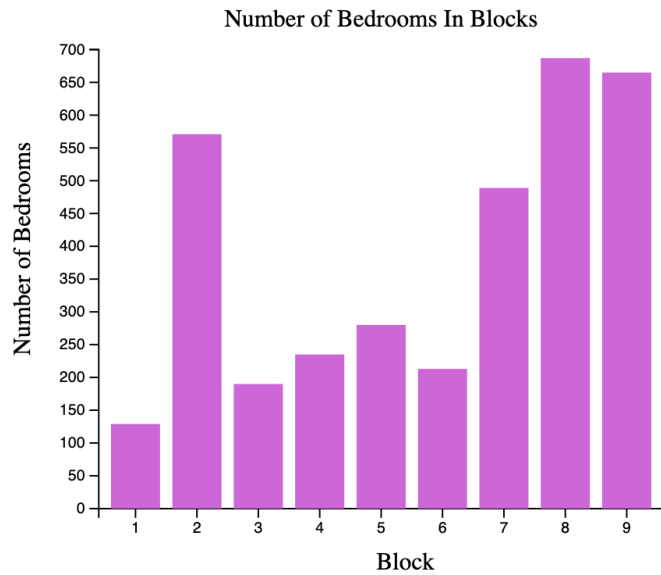
- Source: <https://jhimlib.github.io/CaliforniaHousingPricePrediction/>

- This is considered a bad visualization since we are not so sure what the x axis and the y axis values stand for as the value and income are usually in positive values. Therefore, I am not sure if this can be a useful graph.
- To resolve this issue, I have made a scatter plot with the correlation between age and house value by using the same dataset. It shows a clearer understanding of what the values mean. I thought it is more reasonable to use Age as the x-axis instead of median-income as the x-axis to understand if there is any such correlation between the age and the house's value.
- See visualization below.
- Source A4: Scatterplot Using D3

Link: <https://vizhub.com/isingh4/c98e4a4e12f944b89c078e378708c840?file=index.html>



Requirement 3 (95 + 100 Points):



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- Something that I have created in the past, which is wrong with it is that there are no bar labels on what the quantity is.
  - Source:
    - o A4: Bar Chart using D3
    - o <https://vizhub.com/isingh4/5cb441c2790c43c7b063e2f599635f0e>
  - Something similar that I have done is within a histogram. I have added the quantity to distinguish each value.
  - As you can see below, although it is not a bar chart, I would like to show that I have corrected the visualization by adding labels on it.

