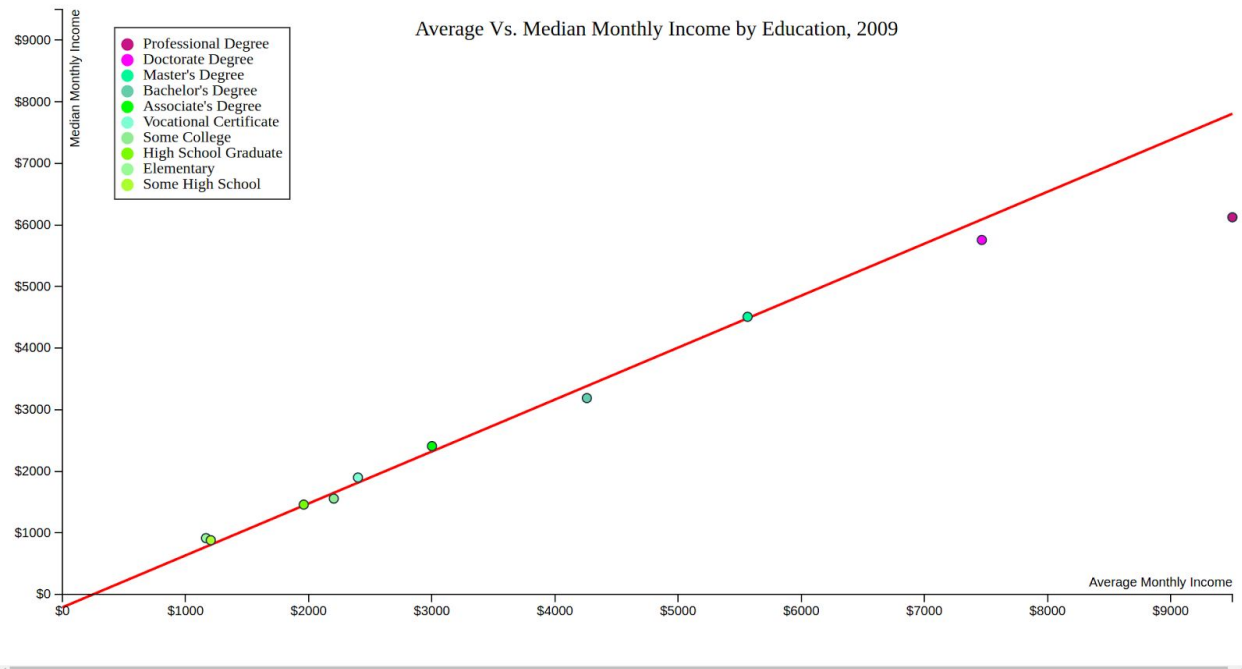Colin Stern
29622919



Average Vs. Median Monthly Income by Education, 2009

This scatterplot shows the relationship between the average monthly income and the median monthly income. A line of regression runs through the points. All points on the line are color-coded uniquely, with points that stray farther from the line colored ever-darker shades of red.

Note how the regression line has a slightly lesser slope than the diagonal since it skews toward higher values of average monthly income. Also note how professional and doctorate degrees stray more from the line, indicating that they are more affected by high-income outliers.
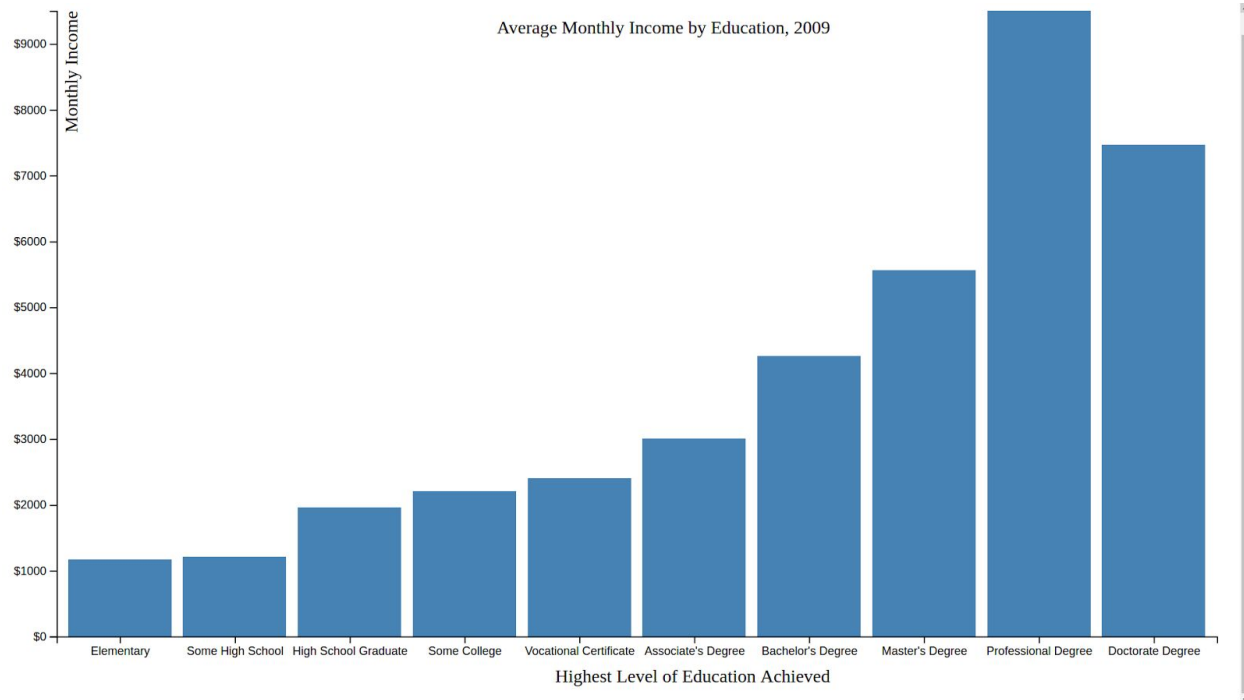
Mean: 3370.85
Standard deviation: 2353.951


References

d3.legend example. Ziggy Jonsson, 2016, http://bl.ocks.org/ZJONSSON/3918369

D3 Scatterplot with Regression Line. Chris Tufts, 2016, https://bl.ocks.org/ctufts/298bfe4b11989960eeeecc9394e9f118

The Wealth & Health of Nations. Mike Bostock, 2012, https://bost.ocks.org/mike/nations/

Making a scatterplot. Scott Murray, 2015,
http://alignedleft.com/tutorials/d3/making-a-scatterplot



This chart shows the relationship between the highest level of education a person has completed and his average monthly income. Higher bars intuitively indicate higher income. The bars simply but effectively show the correlation of higher education to higher income. The different levels of education are labeled at the bottom.

There is a clear correlation between income and higher degrees. Strangely, those whose highest level of education was a doctorate have less income than those with professional degrees. This could be due to the high salaries of doctors and lawyers who earn these professional degrees. It could also indicate that in the midst of the recession (2009) there was less demand for academics, and per supply-and-demand, their income decreased.
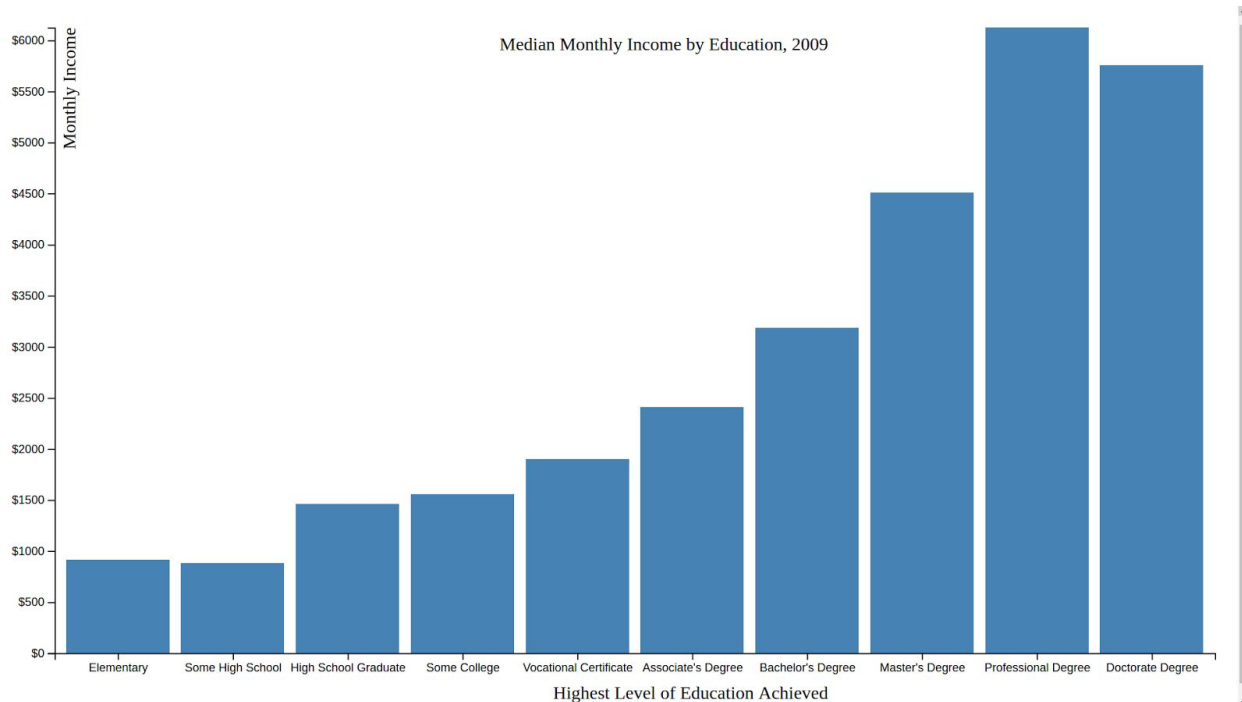
Mean: 3872.6
Standard deviation: 2672.33


References

Bar Chart. Mike Bostock, 2017, https://bl.ocks.org/mbostock/3885304

Simple bar graph in v4. d3noob, 2016,
https://bl.ocks.org/d3noob/bdf28027e0ce70bd132edc64f1dd7ea4

Making a bar chart. Scott Murray, 2015,
http://alignedleft.com/tutorials/d3/making-a-bar-chart



Median Monthly Income by Education, 2009

This chart shows the relationship between the highest level of education a person has completed and his average median income. Once again, higher bars intuitively indicate higher income. Since the data is very similar to table_2a, keeping the format the same allows the user to see the correlation between the median income and the average income.

As in table_2a, there is a clear correlation between education and income. However, there is less of a gap between the median income for professional degrees and doctorate degrees as there is between the average income. This could indicate that there are more outliers with professional degrees than with masters degrees. Also note how median income is lower than average income. This is likely due to high-income outliers.

Mean: 2869.1
Standard deviation: 1853.99

References

Bar Chart. Mike Bostock, 2017, https://bl.ocks.org/mbostock/3885304

Simple bar graph in v4. d3noob, 2016,
https://bl.ocks.org/d3noob/bdf28027e0ce70bd132edc64f1dd7ea4

Making a bar chart. Scott Murray, 2015,
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