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Visualizing High-Dimensional Data: Advances in the Past Decade

Before reading this paper, I didn’t know how much exactly went into visualizing data. It surprised me on how important color blending can be on the perception of order and structure of the data. It was interesting how they did the survey method and categorization of this project. Not only was it crazy how many other papers they studied, they even went through all of their papers, and used their resources and papers that those papers used to try and be as thorough as possible. They identified over 200 papers that focused on a wide variety of technologies and they even made an interactive survey website that let readers select and filter those papers through the use of various tags. Another thing that I found interesting that I didn’t think about was how the data value type can greatly impact how the visualization is designed and monitored. I really liked the section of model manipulation where they described the need for user manipulation and integration in the understanding of data understanding. It said by increasing the illegibility or complexity of an image according to the trustworthiness of the data, the amount of coherency in that information leads to less useable information within that visualization. In their summary, they had a great outline and went through how they achieved their goal in the visualization pipeline. I feel like these authors definitely did their research and improved upon their predesescors, and I admire the steps that took to improve data and visualization as a whole.