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Title: Visualizing Big Data in Your Browser Interactively

Abstract: Data visualization is critical in data-centric applications to help users easily gain insights from their data. Through an intuitive yet powerful interface, users can quickly see the data distributions, identify important relationships and properties of the entities, and observe valuable patterns and anomalies. Organizations and researchers in a wide variety of domains recognize that tremendous value and inspirations can be gained by warehousing and visualizing data.

Unfortunately, today's data visualization tools generally lack the computational efficiency needed for providing a smooth user experience when handling big data. In this research, we aim to develop new browser-based visualization tools capable of rendering millions or data points at realtime by leveraging state-of-the-art rendering techniques developed in computer graphics.