

**Comparison between  
Edward Tufte and Hadley Wickham  
Data Visualization Styles  
10/04/22**

Dr. Edward Tufte and Hadley Wickham are both concerned with relationships. Tufte is looking to show the causes and effects from his work. He suggests that visual displays should assist the viewer in locating comparisons through multiple views. His focus appears to be on showing enough information through graphic structure to help the viewer find causes and effects (i.e., regression coefficients) from the graphic. His graphics show high information throughput and are visually appealing to draw the reader into the data.

While Tufte focuses on the outcome of analysis in an appealing explanatory format, Hadley Wickham is concerned with using the programming process to create graphical displays that are then used interactively to understand the data. Wickham's graphics are functionally developed step by step to understand the data. Wickham is more concerned with the graphical layering possibility that computer programming offers in creating visual representations to analyze data.

In short, Wickham is about graphical representation as an analysis process, whereas Tufte is about the final visual output.

**Reference**

- 25msr. 2016. "Microsoft Machine Learning & Data Science Summit 2016 Keynote Session Dr Edward Tufte the Future." YouTube. <https://www.youtube.com/watch?v=rHUDJ8RyseQ> (September 16, 2022)..
- emblmedia. 2019. "EMBL Keynote Lecture - Data Visualization and Data Science, Hadley Wickham." YouTube. <https://www.youtube.com/watch?v=9YTNYT1maa4> (September 22, 2022)..