Abstract

Due to increase in information data is being generated very fast in day to day life. Large amount of data get collected from different organizations, which is very difficult to analyze and visualize. Data visualization is the way to present the data in a pictorial or graphical format. It helps decision makers to see analytics visually. New patterns and difficult concepts can be easily understood by data visualization. By using visual elements like charts, graphs, and maps, data visualization tools provide a convenient way to see and understand trends, outliers, and patterns in data. This paper focuses on data visualization using different tools. It also analyses and visualize the data by using R language with different data sets.

References

1. Jiawei Han, Micheline Kamber and JianPei(2009). Data Mining Concepts and Techniques, Third edition, MK Publications.
2. https://seattlebubble.com/blog
3. https://rstudio.github.io/shinydashboard/
4. http://nvd3.org/examples/
5. https://www.freelancinggig.com/blog/2017/10/03/best-programming-languages-data-visualization/
6. Gupta, R., Gupta, S., & Singhal, A. (2014). Big data: Overview. International Journal of Computer Trends and Technology, 9(5), 266-268. Retrieved from http://www.ijcttjournal.org
7. Lima, M. (2011). Visual complexity: Mapping patterns of information. New York, NY: Princeton Architectural Press.
8. Mackinlay, J. D., & Winslow, K. (2014). Designing great visualizations. Seattle, WA: Tableau. Retrieved from https://www.tableau.com/whitepapers/designing-great-visualizations
9. Lam, H., Bertini, E., Isenberg, P., Plaisant, C., & Carpendale, S. (2012). Empirical studies in information visualization: Seven scenarios. IEEE Transactions on Visualization and Computer Graphics, 18(9), 1520-1536. doi: 10.1109/TVCG.2011.279
10. Keim, D., Qu, H., & Ma, K.-L. (2013). Big-data visualization. Computer Graphics and Applications, IEEE, 33(4), 20-21. doi: 10.1109/MCG.2013.54.
11. Endert, A., Fiaux, P., & North, C. (2012). Semantic interaction for sensemaking: Inferring analytical reasoning for model steering. Visualization and Computer Graphics, IEEE Transactions on, 18(12), 2879-2888. doi: 10.1109/TVCG.2012.260
12. Few, S. (2015). Visual business intelligence. Visual Business Intelligence Blog. Retrieved from http://www.perceptualedge.com/blog/?p=1277
13. Lima, M. (2015). Manuel Lima: A visual history of human knowledge. Retrieved from https://www.ted.com/talks/manuel_lima_a_visual_history_of_human_knowledge#t-371736

Index Terms

Computer Science Information Sciences

Keywords

Data Analytics, Data Visualization, R Language