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BRINGING DATA TO LIFE REAL TIME VISUALIZATION

Article from [Revalsys Technologies](#)

This article explains
on bringing data to life



Visuals are a vital part of how people make sense of the world. So, people want the visuals to improve in quality and responsiveness constantly. With the emergence of data streaming, in today's world, we have real time data functionality at the tip of our fingers. Bar graphs, line charts etc. get updated themselves.

What is data visualization?

Data visualization is the process that puts focus on what people see. It is the visual representation of the data so that the audience can learn and understand the information easily and quickly. Data visualization on maps is gaining momentum these days as it lets you to represent complex data much easily. People prefer maps to other data visualization types.

What is real time data visualization?

Real time is a phrase that is used to describe the time in which a particular event or action takes place. Most of the things we do are in real time. When you relate real time to computer system, it refers to the processing that takes place at the same time as it would occur in the real world.

When it comes to real time data visualization, it refers to the processing as well as publishing of data as it changes, in real time. Interactive data visualizations display fresh data creatively as it streams. And when it comes displaying our real time data, there is no limit. Here are a few examples of real time visualization:

- Bar graphs changing heights
- Line chart that draws itself
- Heat maps based on twitter traffic
- Bubble chart with bubbles of different sizes



How are real time visualizations built?

Basically, real time visualizations have two main components—a stream of data and user interface. A stream of data is the constant data flow where data packets are sent anytime the data is updated. The data could be revenue, stock prices, weather forecast or any other data group that gets changed over time. And based on the changes sent from the stream of data, a flexible, interactive user interface is required where changes are displayed easily.

What's the importance of real time visualization?

In today's business scenario, it's essential for every business to have up-to-date information. Old data becomes bad data. Visualizing the data and making it easier and clear to understand is the key to make better business decisions. It even makes monitoring of the data streamlined.

When you do real time data visualization, monitoring networks or systems and spotting trends, problems etc. become much easier for the operations team. The financial team can have accurate financial data, even up to the millisecond data. The best real time visualization is not only informative but also compelling. Having current data means you are equipped with smart data.



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