A Taxonomy of visualizations

A taxonomy of visualizations in social computing can help categorize and understand the various ways in which visual representations are used to analyze and present social data.

Here's a taxonomy of social computing visualizations based on their characteristics and applications:

Network Visualizations:

Node-Link Diagrams: Represent social entities (nodes) and their connections (links) as a graph. Useful for displaying relationships in social networks.

Matrix Visualizations: Represent relationships in a grid-like format, making it easier to spot patterns in connections and interactions.

Hierarchical Layouts: Visualize social structures with a tree-like hierarchy, common in organizational charts or family trees.

Temporal Visualizations:

Timeline Charts: Display events, trends, or social interactions over time, allowing for the analysis of temporal patterns.

Heatmaps: Use color-coding to represent the frequency or intensity of events or interactions in a time-based context.

Textual Visualizations:

Word Clouds: Display the frequency of words or phrases in text data, providing insights into trending topics or keywords in social conversations.

Sentiment Analysis Visualization: Represent sentiment scores or emotions within social text data using color-coding or emoticons.

Community and Clustering Visualizations:

Community Detection Graphs: Identify and visualize communities or clusters within a social network to uncover group dynamics.

Voronoi Diagrams: Partition a space into regions, highlighting proximity or similarity between social entities.

Multimodal Visualizations:

Combination of Data Types: Combine multiple data types, such as network data, temporal data, and geospatial data, to provide a comprehensive view of social interactions.

Interactive Visualizations:

Zoomable Interfaces: Allow users to interact with visualizations by zooming in and out, enabling exploration of data at various levels of detail.

Filtering and Selection: Provide options to filter data, select specific elements, or perform dynamic queries within the visualization.