

Overview: Visualizing Healthcare Data

A literature survey project

My current project

- Currently I am writing a survey paper on an overview of visualization techniques used in visualizing health data
- My previous project was on visualization dashboards in healthcare systems:
 - Why they are used
 - The content they include
 - How the content are displayed with visualization dashboards
 - The choice of idioms used
 - And how they are displayed all at once on a vis dashboard

My current project

- The reason why I altered my project was because there is already quite a bit of literature on vis idioms used in visualizing health data
- If I were to include the dashboard aspect on top of vis idioms, I think it may be too much...
 - Seemed more like 2 topics combined into 1
 - Which is why I narrowed the scope of my project

Content

- The current content of my paper is on the vis idioms used to visualize health data
- I've chosen to talk more about idioms that may seem more 'foreign' to readers
 - Instead of talking about pie graphs, line graphs, bar charts, etc. I've decided to devote much of the paper to:
 - Bubble charts
 - Spiral theme plots
 - Heat maps
 - Scatter plots → included for comparison to bubble charts
 - Bar chart → included for comparison to idioms that can handle multivariate datasets
 - Ring maps
 - Flow based vis

Content

- Paper breakdown:
 - Abstract, keywords
 - Introduction
 - Overview of types of vis idioms
 - Bar charts
 - Radar plots
 - Tree maps
 - Bubble charts
 - Spiral theme plots
 - Ring maps
 - Flow based vis
 - How they are used to visualize health data
 - Introduction to each idiom
 - How they have been used to visualize health data (which study used what idiom)
 - Advantages + disadvantages to each idiom
 - Conclusion