

# CS7DS4\_Assignment5.1\_bhatnags

Select an interactive visualization tool with which you are familiar with (or one of the samples in the previous slide) and examine the types of interaction it supports. List the interaction operators and operands, as well as the parameters of the interaction that the user can control. Identify some interaction operators and operands not present in the tool that you feel would be useful additions to the system. Give an example of how they might be used.

Tool considered: Tableau

Interaction that tableau Supports:

- Navigation-Tableau supports maps, and zooming in the maps is possible
  - LOD
  - Projection pursuit
- Selection
  - Replacement
  - Granularity
  - User's Input
- Filtering
  - Dynamic
  - Direct or Indirect
- Reconfigure
- Encoding
- Connection – link – node charts, matrix graphs
- Hybrid – by creating multiple view dashboard, the same is feasible

Operands:

- Data Value Space – Multivariate Data Values
- Data Structure Space – components of Data Organization
- Object Space – 3D Surfaces
- Visualization Structure Space

Screen space Operand is not possible in Tableau. In terms of showing heat maps, if the same is implemented, could be massively used.