

Project 02 Proposal: WhatAreWeDoingQuestionMark

Emmitt R Johnson, Makiah Merritt, and David Shingai Ntuli

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1 RELATED PAPERS

1.1 Paper 01: *VisDock: A Toolkit for Cross-Cutting Interactions in Visualization* [3]

1.1.1 Paper Description

Prepared by Jungu Choi, Deok Gun Park, Yuet Ling Wong, Eli Fisher, and Niklas Elmquist, Senior Member, IEEE; this paper reviews a tool the team created to provide “a core set of cross-cutting interaction techniques for visualization” [3, p. 1]. The tool, VisDock, was created as a plugin library using JavaScript to interact with visualizations based on SVGs; upon completion of the tool, the team released it as Open Source. A qualitative study with four developers and 11 end-users “found the tool usable and efficient” [3, p. 2].

1.1.2 Project Value

In their future work section, one area of interest is the implementation of data-level interactions for “filtering, searching, and drilling down into the data” [3, p. 12]. Along these lines we could investigate ways to provide interactions allowing quick manipulations of the graph based upon data selections of the user. For example, supposing the user would like to find similar elements in the data set based upon a selection, we could look into developing a way to generate visual changes to make those elements stand out. Problems we may encounter mainly surround picking up and applying the VisDock. Although documentation and examples will be available, being open source there is no guarantee that it will be plug and play. Furthermore, the implementation of VisDock is that of a plug-in, meaning we will need to start the visualization another visualization tool such as D3 and figure out the extent of VisDock’s manipulation capabilities.

1.2 Paper 02: Title

1.2.1 Paper Description

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1.2.2 Project Value

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1.3 Paper 03: Title

1.3.1 Paper Description

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1.3.2 Project Value

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2 REFERENCED PAPERS

1. *Vega-Lite: A Grammar of Interactive Graphics* (2016), Arvind Satyanarayan, Dominik Moritz, Kanit Wongsuphasawat, and Jeffrey Heer [9]
2. *Embedded Data Representations:2016* (2016), Wesley Willett, Yvonne Jansen, Pierre Dragicevic [2]
3. *The Attraction Effect in Information Visualization* (2016), Evan-thia Dimara, Anastasia Bezerianos, and Pierre Dragicevic [1]
4. *Title* (year), Authors [?]
5. *Title* (year), Authors [?]
6. *Title* (year), Authors [?]
7. *Title* (year), Authors [?]

ACKNOWLEDGMENTS

The authors wish to thank the authors of the referenced papers for their work upon which we will attempt to expand upon.

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