



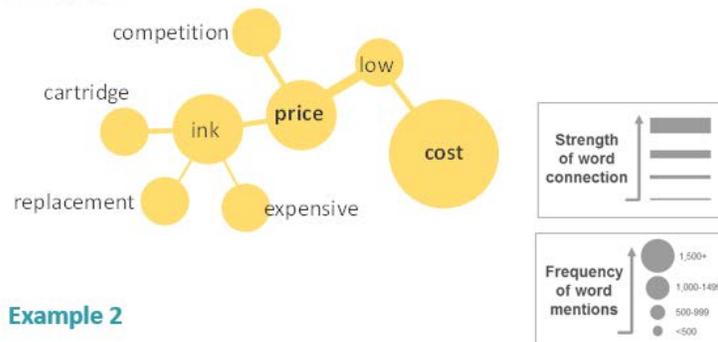
Agile Text Analytics with KS&R's Theme Finder – Start with the Connections

By Ben Cortese (Statistician & BI Consultant)

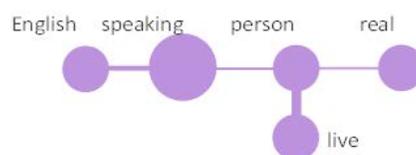
Finding the story within open end responses, social media posts, and other unstructured text data can be a challenge. While necessary to uncover the granular detail, coding exercises are often time and labor intensive as well as subject to perspective. Word clouds provide attractive visualizations, but can lack the ability to identify themes within the text. An emerging solution to text mining, referred to as word networks, merges these two techniques and provides an agile solution while simultaneously removing the human element present in a coding exercise. KS&R's Theme Finder brings this emerging solution to life.

Theme Finder is an algorithm-based method for analyzing unstructured data – from various sources such as open ends from a quantitative survey, in-depth interview transcripts, social media data, and more. Word networks provide a visual aid to identify common themes appearing in text and identify common co-occurrences of words across respondents. The network (or web) is driven by counting the number of times any two words appear close to one another. The stronger the connection, the thicker the line will appear between two words in the visualization. In addition to the connections in a word network, the number of total mentions of each individual word is accounted for via the size of the circle associated with it. This draws attention to both frequent terms and the most common themes in a body of text.

Example 1



Example 2



This technique fits into any agile research framework by solving for time intensity, eliminating subjectivity, and pinpointing themes faster. Word networks identify the big picture and identify areas worthy of more exploration. They can allow researchers to generate the topline view of a large qualitative project across multiple segments faster, allowing more time to focus on differences and deeper dives.

About the Author

Ben Cortese has been with KS&R for nearly two years, working with a diverse client group on advanced analytics projects. As an expert R programmer, his focus is on exploratory analysis, Bayesian network modeling, key driver analysis, discrete choice and predictive modeling.



Education: PhD (Statistics), Syracuse University

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