DocuBurst: Document Content Visualization Using Language Structure

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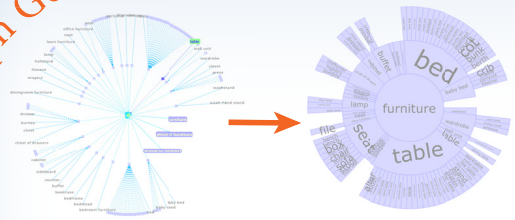
Graph Generation

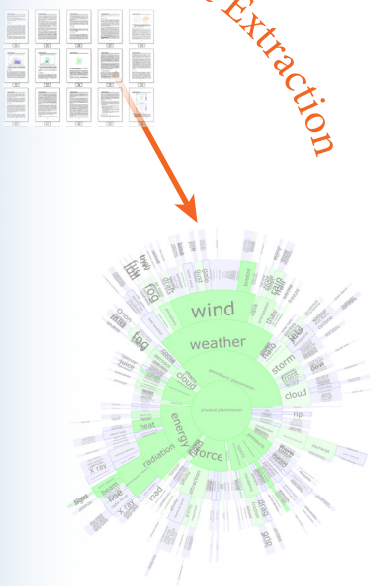


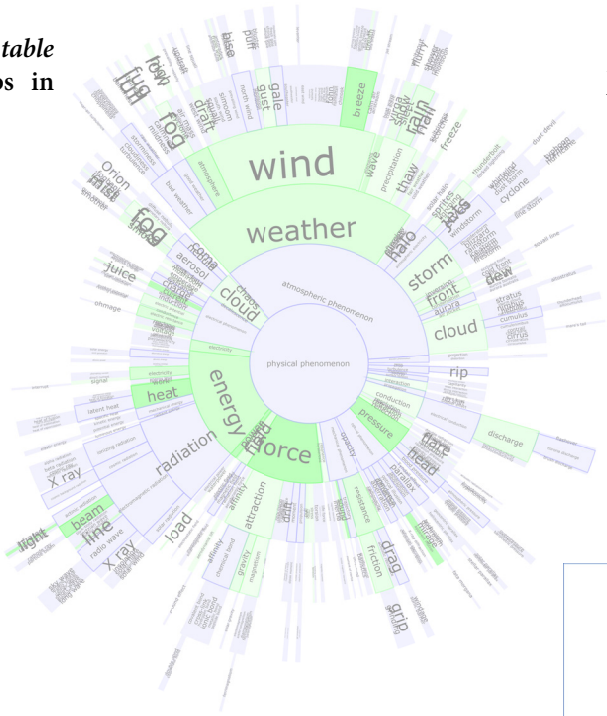
Graphs over the hyponymy relation (*table* `IS-A` *furniture*) for nouns and verbs in WordNet can be rooted at any concept.

Zoom and Adjust

Semantic zoom adjusts level of detail from specific concepts to the entire language. An adjustable depth filter abstracts the visible graph while visual pan and zoom, and subtree size adjustments support analysis.

Text Extraction





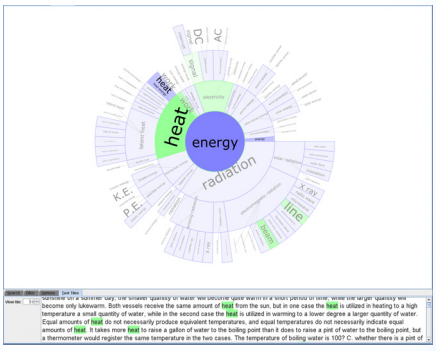
Search Filter

Search results are highlighted in pink.

Colouring

Word counts from a document of interest are used to colour single nodes (center) or propagated to parents, aggregating related concepts into more general themes. Propagation also provides traces to small nodes (above). Green of varying transparency indicates strength of occurrence, while non-occurring concepts are blue.

Text Details on Demand



Concept occurrences in the source text are highlighted in a coordinated view.

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