

Information Visualization

Exercises

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Lesson IV
Treemaps

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Graph format and Treemaps

Exercise I

Reading graphs online

Exercise II

Treemaps

Exercise III

Visualizing your own data

Exercise I

Inputing Graphs

- Large graphs and especially dynamic graphs
- Load from URL rather than code in the programm
- prefuse supports the GraphML format via the `prefuse.data.io.GraphMLReader`
- Visualize the Tree located at http://home.in.tum.de/~nestler/tree_data_1.xml
- Reference for GraphML: <http://graphml.graphdrawing.org/primer/graphml-primer.html>

Exercise II

Visualizing with a TreeMap

- Large Trees with additional data attribute which signifies “size”
- Dataset from previous exercise has size attributes on every node
- Visualize using the SquarifiedTreeMapLayout
- Convert with `graph.getSpanningTree`
- Note each graph node implements Tuple interface
- Accessible via `node.getDouble(“size”)`
- Rendered Size depends on Layout Item Size
- => Use `prefuse DataSizeAction`
- See for reference:
[demos/prefuse/demos/TreeMap.java](http://goosebumps4all.net/34all/bb/showthread.php?tid=126)
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<http://goosebumps4all.net/34all/bb/showthread.php?tid=36>



Exercise III

Visualize your own data

- Be inspired by examples on the internet
- Find your own dataset and visualize as treemap
- Note data has to be a tree and node have to be attributed with sizes

