

InfoVis Übungsablauf

<http://www.cg.tuwien.ac.at/courses/InfoVis>

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Expectations

- Understanding of the paper
 - ◆ Read the paper
 - ◆ Reflect and discuss decisions of the authors in the selected paper
- Implementation of the method in the paper
 - ◆ Create a stand-alone application (programming language of your choice)
 - ◆ Application should include (at least) the main aspects of the selected paper

Assignments 1/2

- Choose paper (group of 2 students)
- Registration (**17.03.2011**)
 - ◆ Paper summary+implementation ideas (max. 1 page)
- 1st Presentation (**23/30.03.2011**)
 - ◆ Summary of the paper + implementation ideas
 - ◆ 10 minutes + 5 minutes discussion
- 2nd Presentation (**08/15/22.06.2011**)
 - ◆ Implementation, program
 - ◆ 15 minutes + 5 minutes discussion

Assignment 2/2

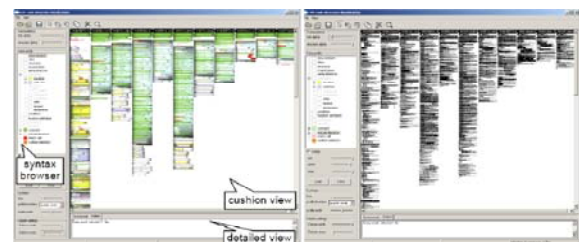
- Program submission (**07.06.2011**)
 - ◆ Source code
 - ◆ Executables
 - ◆ Documentation (html)
- Questions?
 - ◆ Martin Haidacher: martin.haidacher@cg.tuwien.ac.at
 - ◆ Thomas Mühlbacher: tomm@cg.tuwien.ac.at
- You can find all information online:
 - ◆ <http://www.cg.tuwien.ac.at/courses/InfoVis>

Introduction of the papers

- All the papers can be found on the homepage
 - ◆ Skip through all the papers before you select one!
- Each paper can only be chosen by up to 2 groups
 - ◆ Send your selection via e-mail to Martin Haidacher
 - ◆ On the homepage you can see the number of groups which have already selected a certain paper

The Visual Code Navigator

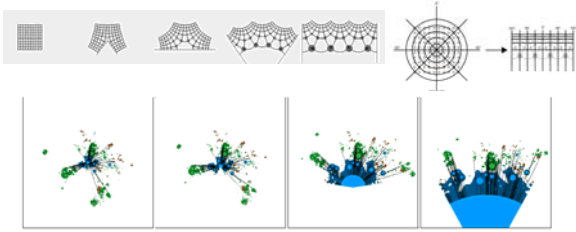
- Three different views of source code and compiled files: “Syntactic View”, “Symbol View”, and “Evolution View”



Complex Logarithmic Views



- Distorted views to enlarge focus
- Suitable for huge contexts and tiny foci



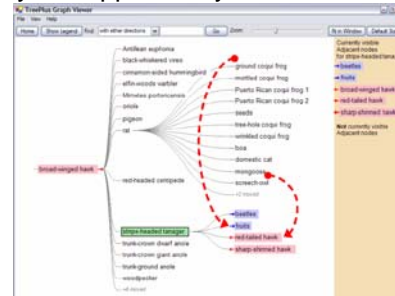
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TreePlus: Visualizing Graphs as Trees



- Hierarchical structures visualized as a tree
- Analysis supported by animations and colors



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Hierarchical Edge Bundles



- Similar edges are combined to “streams”
- Crowded graphs can be tidied up



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VisLink



- Link different visualizations through 3D space



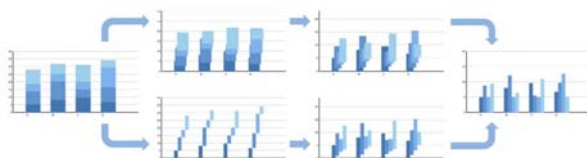
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Animated Transitions in Statistical Data Graphics



- Animate the transition between different graphs



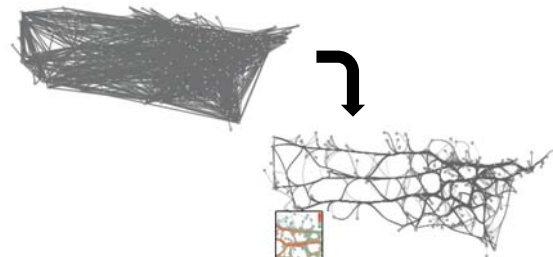
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Geometry-Based Edge Clustering



- Group edges into bundles to reduce edge crossings
- Suitable for general graphs



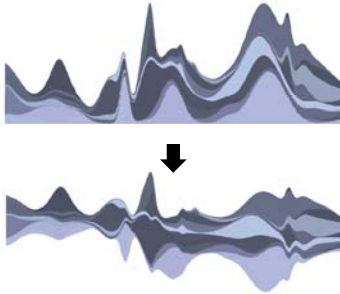
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Stacked Graphs: Geometry & Aesthetics



- Visualization approach for more aesthetic stacked graphs



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The Word Tree



- Graphical version of “keyword-in-context” method
- Other keywords can be explored by clicking on them



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Visualizing Social Photos on a Hasse Diagram



- Organize photos in a Hasse Diagram
- Add connections between photos (same person, ...)



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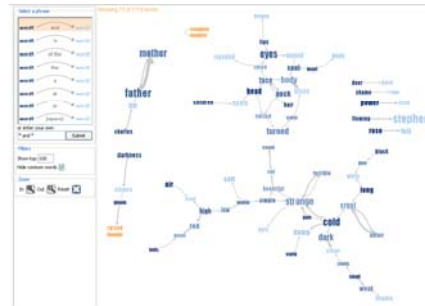
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Mapping Text with Phrases Nets



- Visualization of relations between words in a text



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The Streams of our Lives



- Combine music/photos in a single visualization



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SparkClouds



- Augment word clouds with spark lines to see trends over time



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ManiWorle



- Method for editing word clouds
 - ◆ Each word can be moved and rotated individually



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Your own selected paper



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Questions?



- Any questions?
- Check out the homepage:
 - ◆ <http://www.cg.tuwien.ac.at/courses/InfoVis>

insert your name here

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