Algorithms for Graph Visualization

Excercise on Drawing Graphs

Excercise · October 26
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Organizational

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- Office 316
- Office hours: request by email

Exercise Sessions:

**Rule of thumb:** Every second week.
See homepage for exact dates.

**Discussion of exercise sheets!**

Exercise Sheets: Are published at least one week before exercise session.

Each student has to present at least one (part of an) exercise
Our Target Today

- There many criteria of a nice (readable) drawing in terms of
  - Drawing conventions: Planarity, Straight-line edges, etc.
  - Drawing aesthetics: Size, Symmetry, etc.
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- You know about Graph Drawing (Visualization) for 9 days...or?
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- We would like to see, how natural are these criteria of a “nice drawing” for a newcomer!
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  - Drawing conventions: Planarity, Straight-line edges, etc.
  - Drawing aesthetics: Size, Symmetry, etc.
- The Graph Drawing community have studied them for more than 20 years.
- These criteria of a “nice drawing” is natural for the field.
- You know about Graph Drawing (Visualization) for 9 days...or?
- We would like to see, how natural are these criteria of a “nice drawing” for a newcomer!
- So, this exercise is a kind of an experiment!
Procedure

- You will get 6 graphs in .graphml format
- You will have 80 min, so ≈ 13 min per graph
- You load a graph to yEd and modify it until you are happy with the result
- You might consider transferring the result on the paper!
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- You can use your artistic side! Without the limits of a software!
- We determine how nice are the drawing using 1-5 scale
- Results are presented in the next exercise session
Usage of yEd