Übung zur Vorlesung

Informationsvisualisierung

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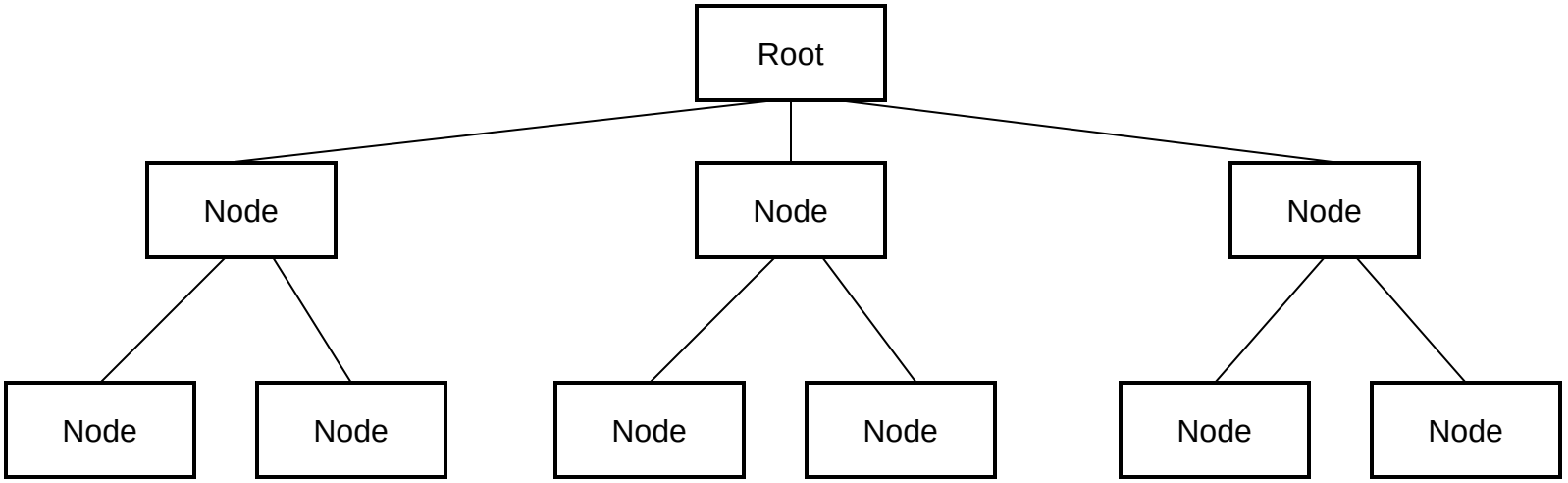
Wintersemester 2011/2012

Trees and Treemaps

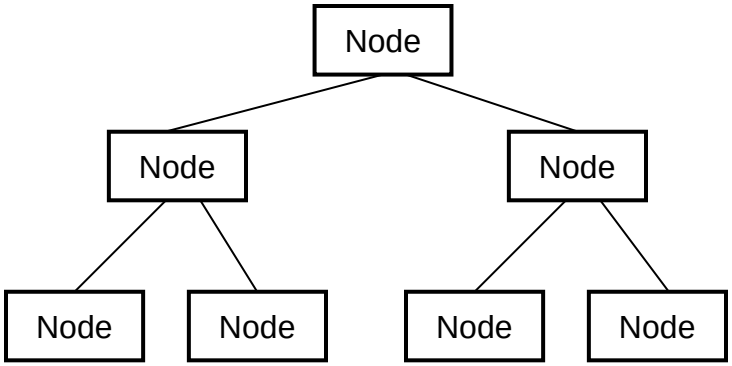
Trees vs. Networks

- No cycles
- Directed edges
- Root

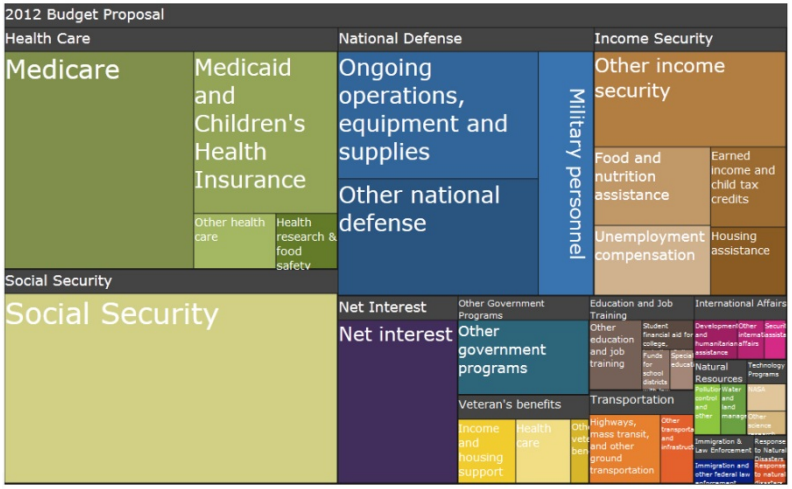


Node-Link vs. Enclosure

- Immediate perception of relations
- Waste of screen real estate



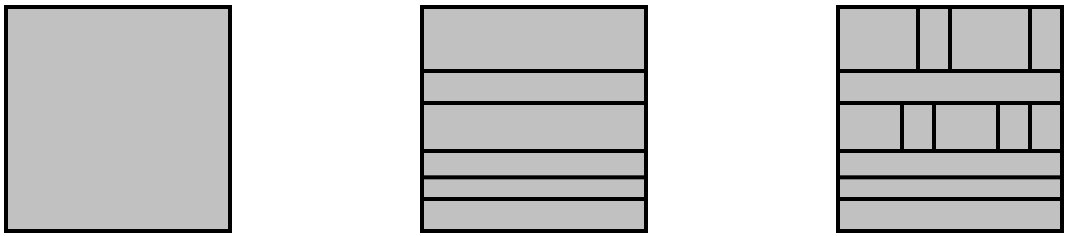
- Space-filling
- Focus on leaf nodes
- Structure gets lost



whitehouse.gov interactive budget

Slice and Dice

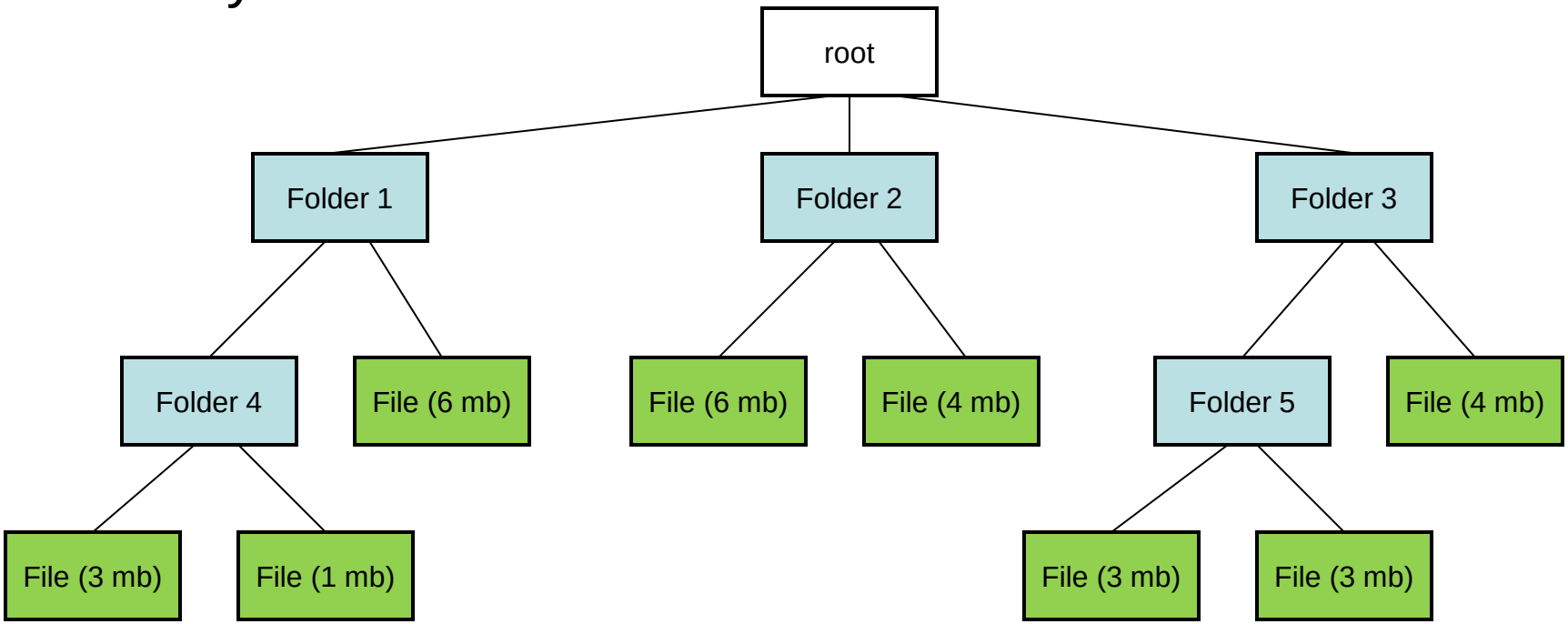
- Algorithm:
  - Use parallel lines to divide a rectangle representing an item into smaller rectangles representing the item's children
  - Each child is allocated a size proportional to some property (additional encoding by color)
  - At each level of the hierarchy switch the orientation of the lines (vertical vs. horizontal)



1. 2. 3.

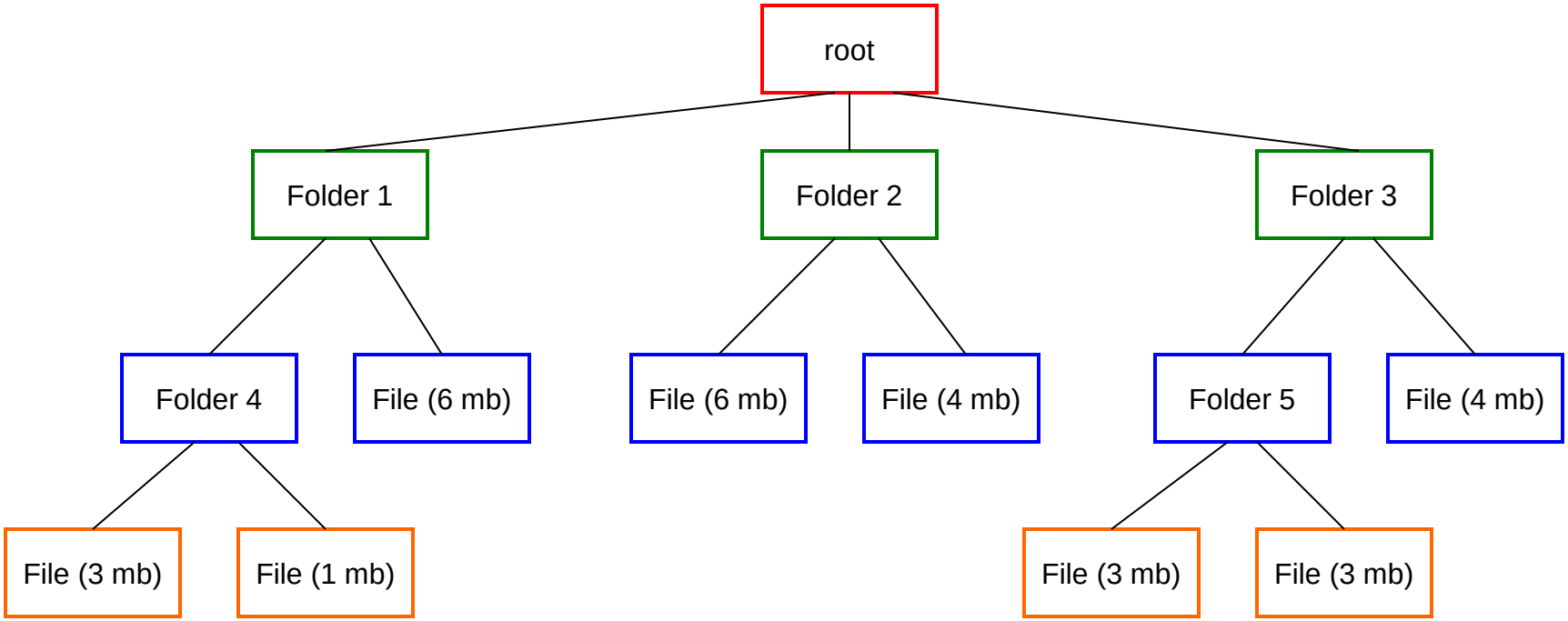
Slice and Dice

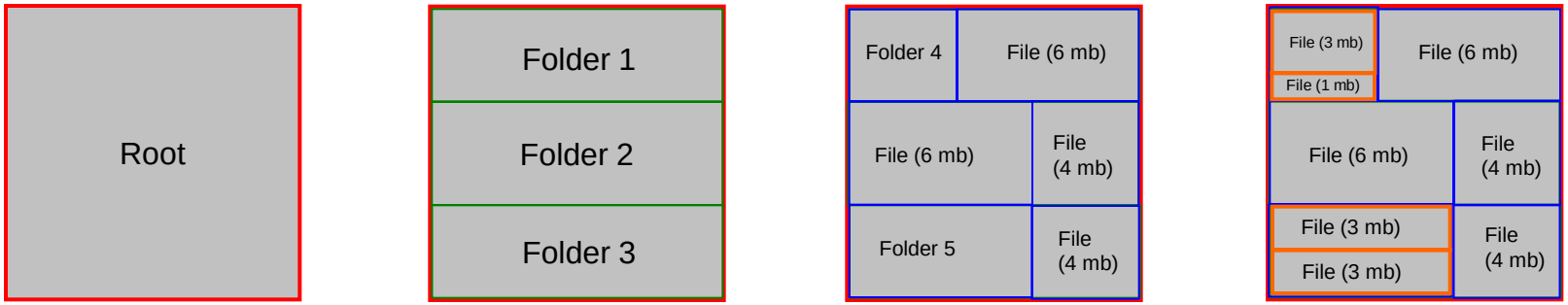
- Filesystem:



Slice and Dice

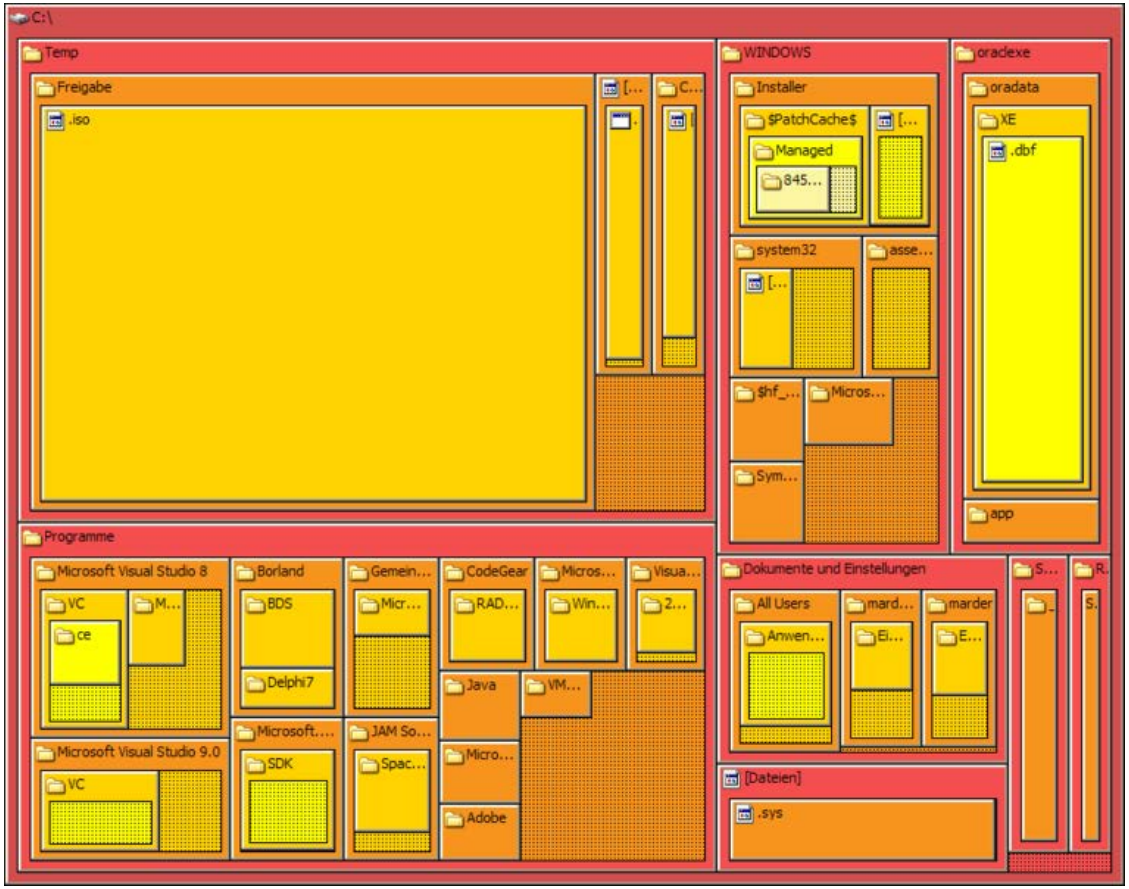
- Solution:





Nested Treemap

- Revealing the tree structure (to a certain degree)



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Subtree Selection

- Navigate the structure
- Easy access to subtrees
- Still no insights into the overall topology