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### **Guaranteed Visibility Challenges**

- · hard with larger datasets
- · reasons a mark could be invisible

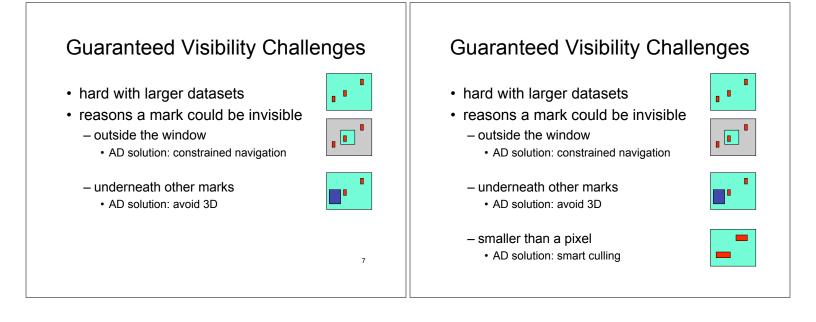
#### **Guaranteed Visibility Challenges**

- · hard with larger datasets
- · reasons a mark could be invisible
  - outside the window



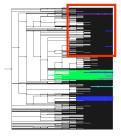
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AD solution: constrained navigation

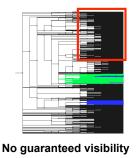


# Guaranteed Visibility: Small Items

· Naïve culling may not draw all marked items



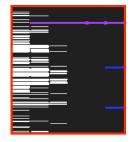
Guaranteed visibility of marks



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# Guaranteed Visibility: Small Items

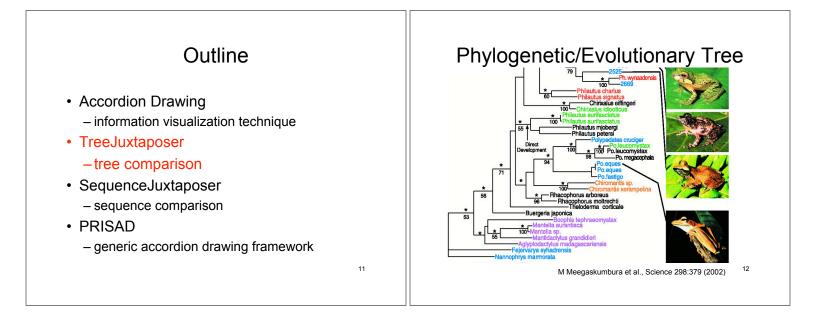
· Naïve culling may not draw all marked items

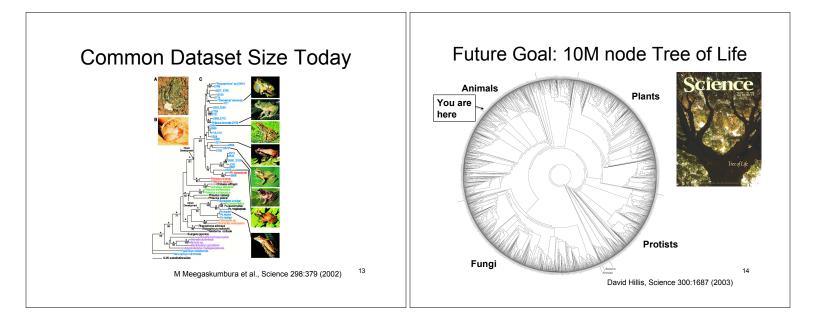


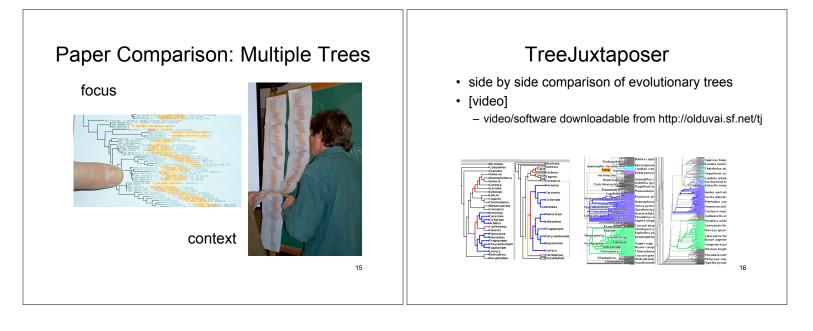
Guaranteed visibility of marks

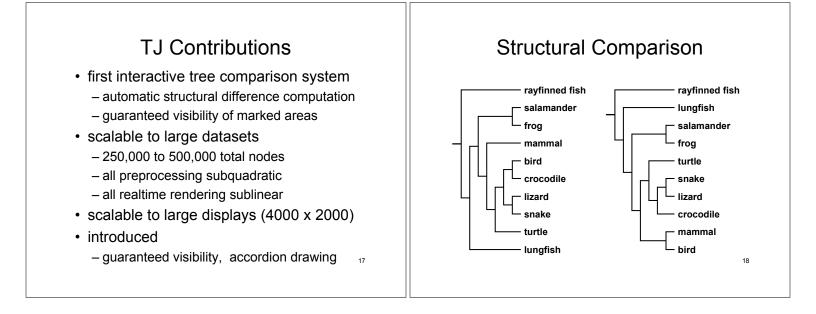
o guaranteed visibility	

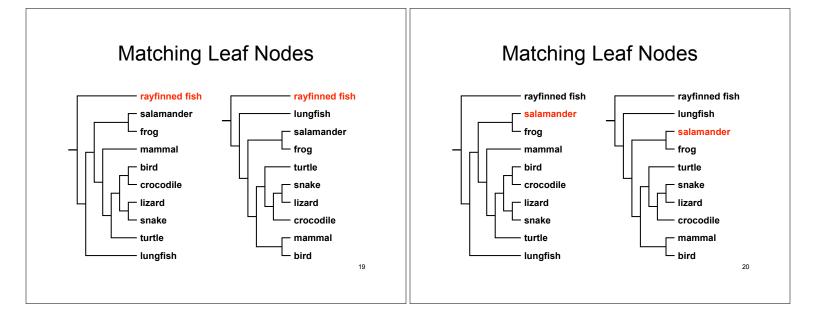
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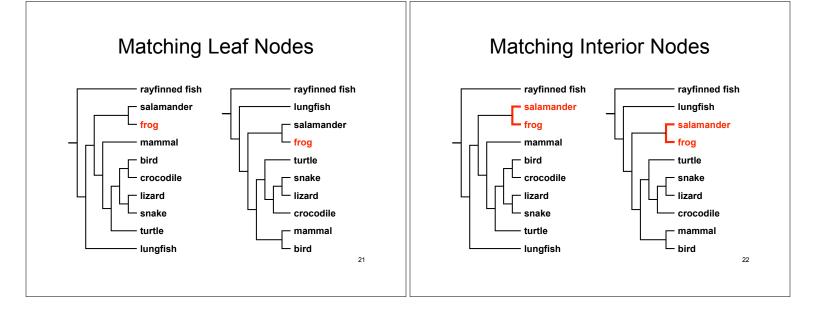


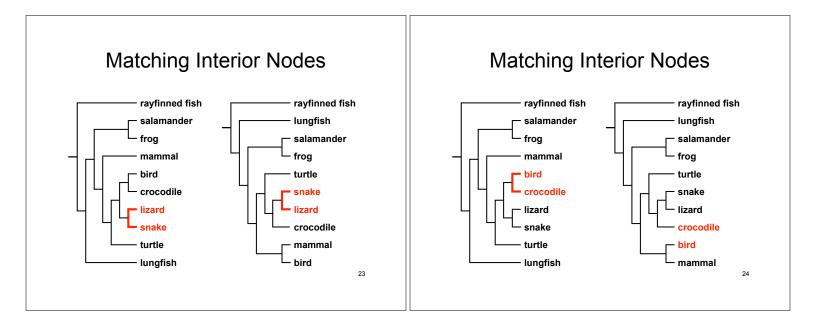


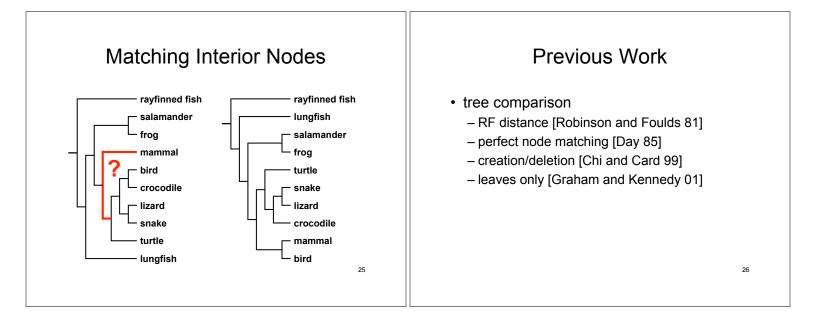


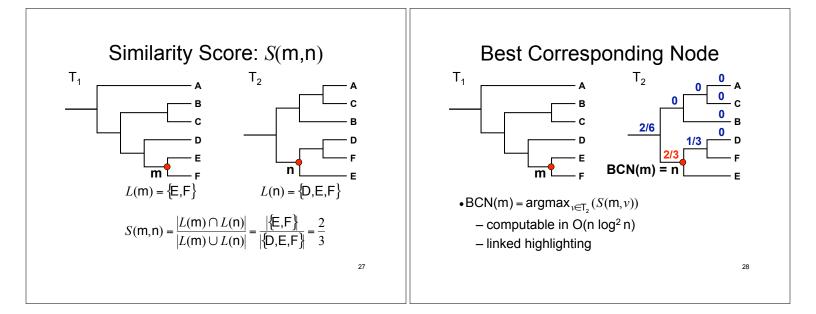


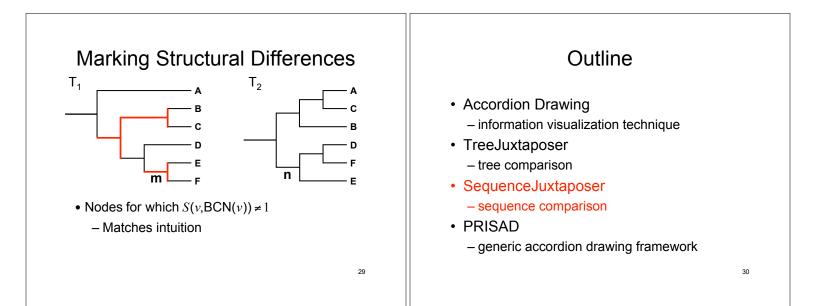


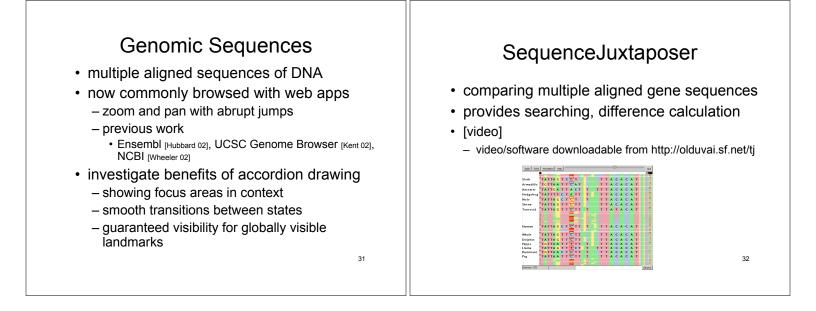




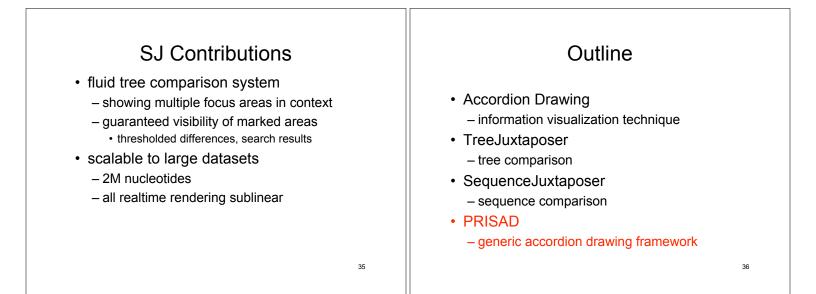


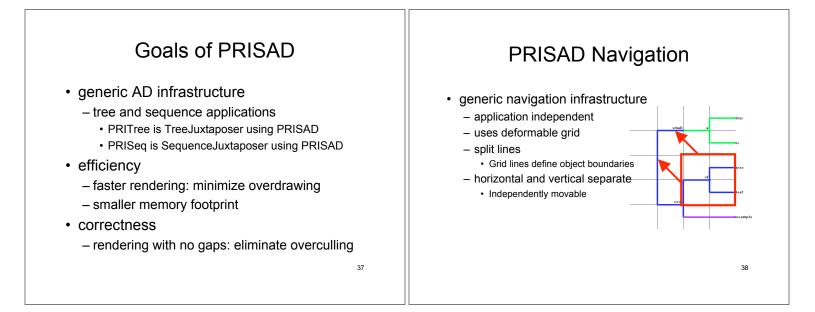


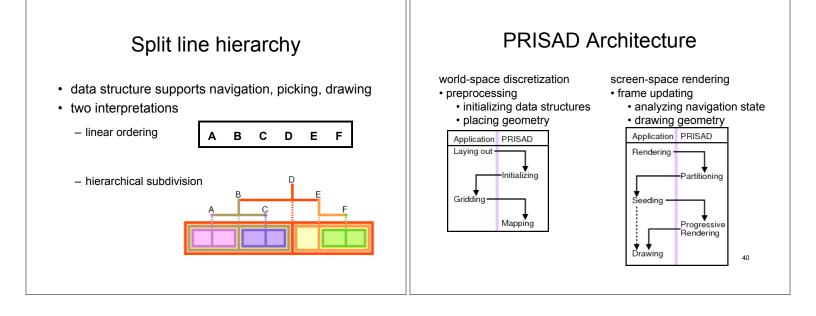


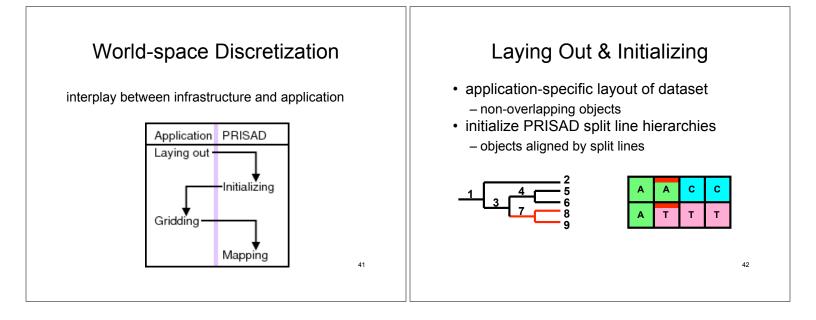


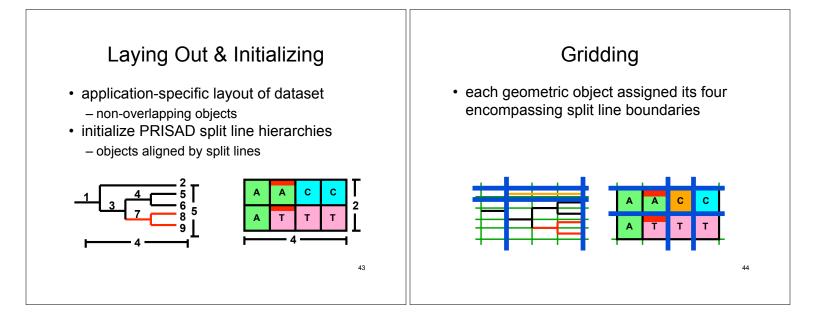


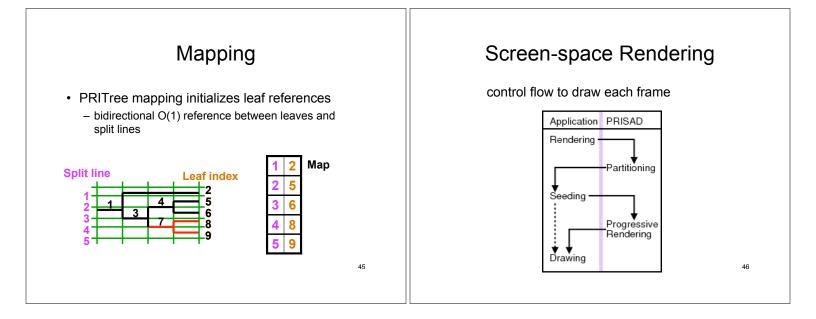


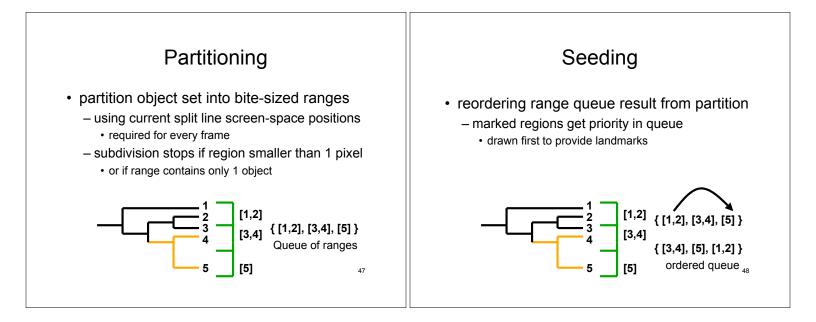


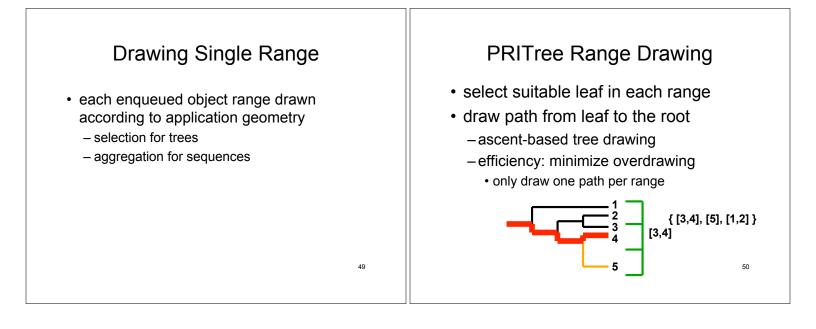


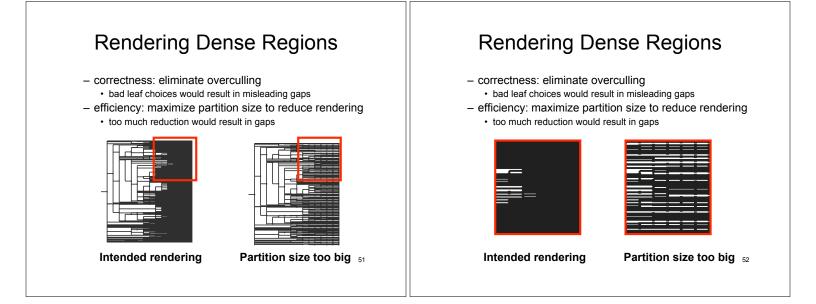


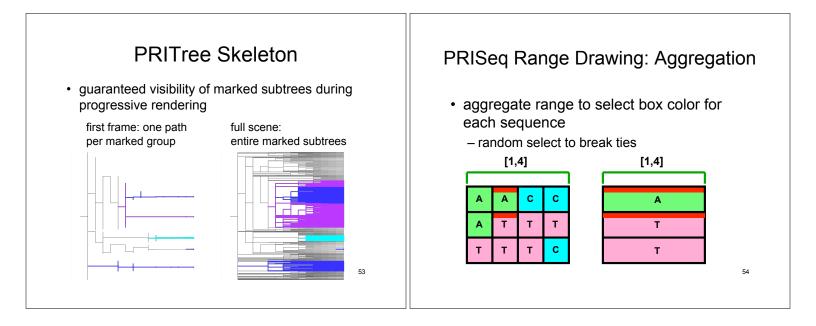


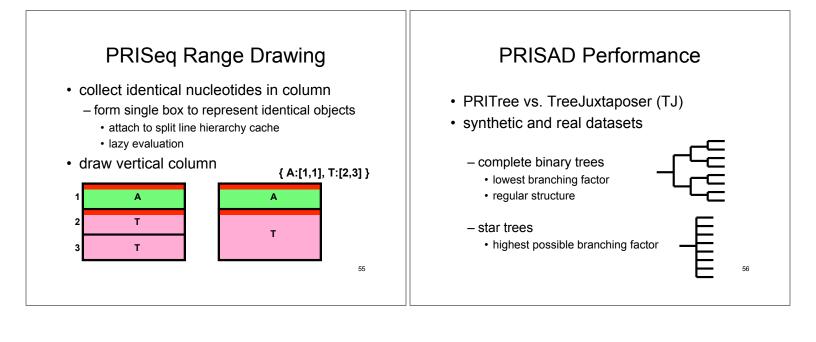


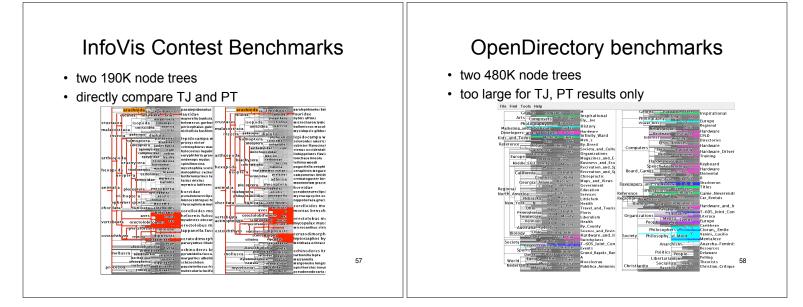


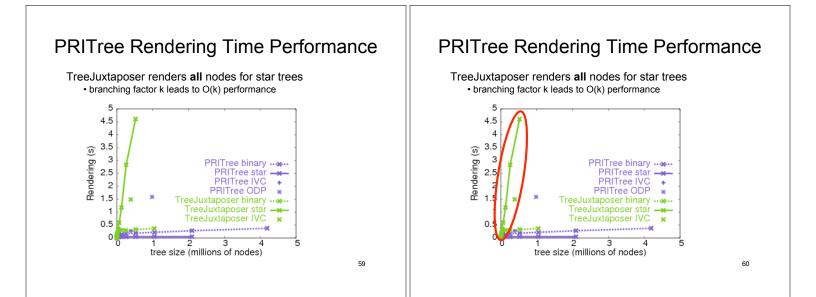


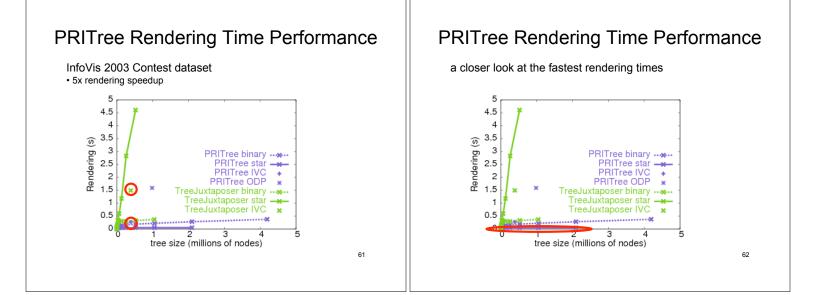


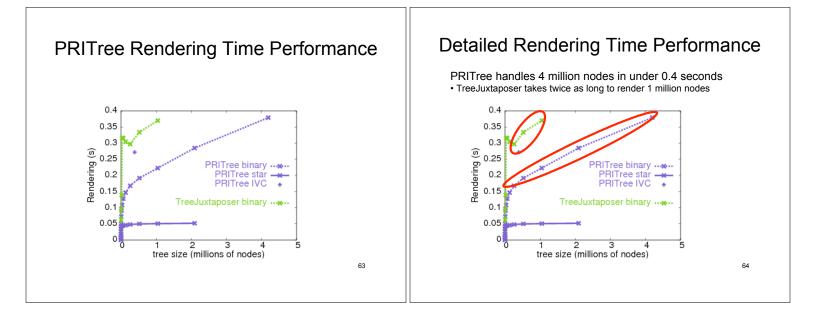


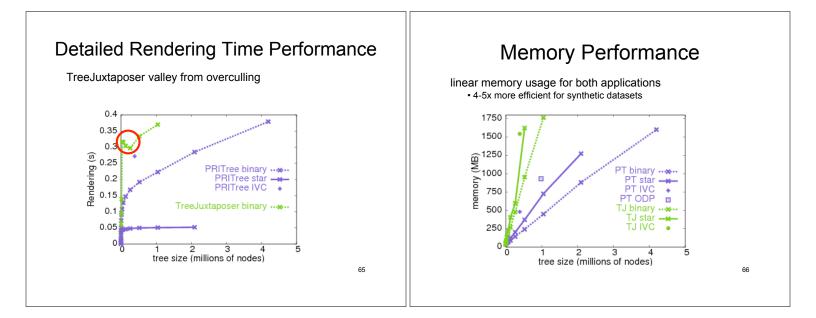


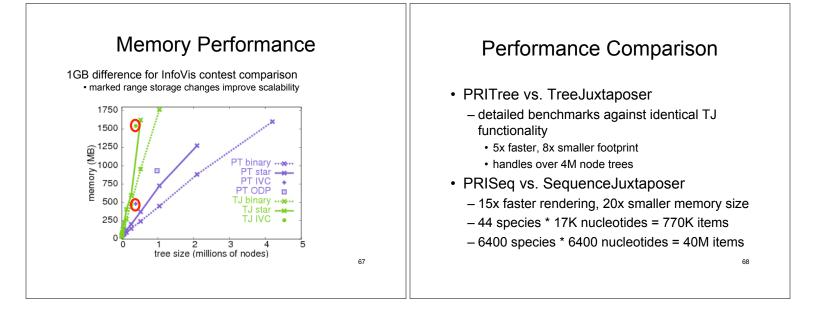


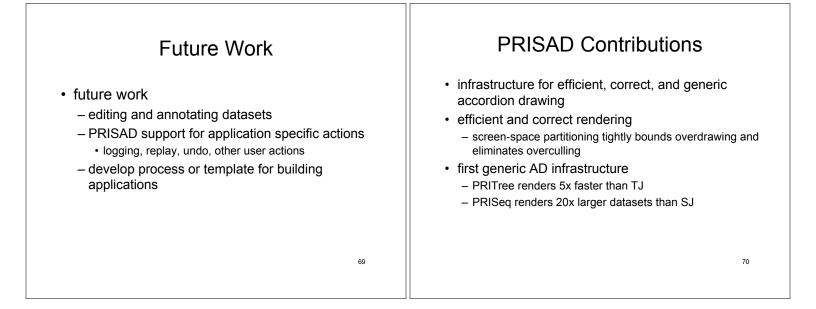












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