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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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