

QuickSpace New Window Operations for the Desktop Metaphor

Dugald Hutchings & John Stasko





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Dugald Hutchings

John Stasko

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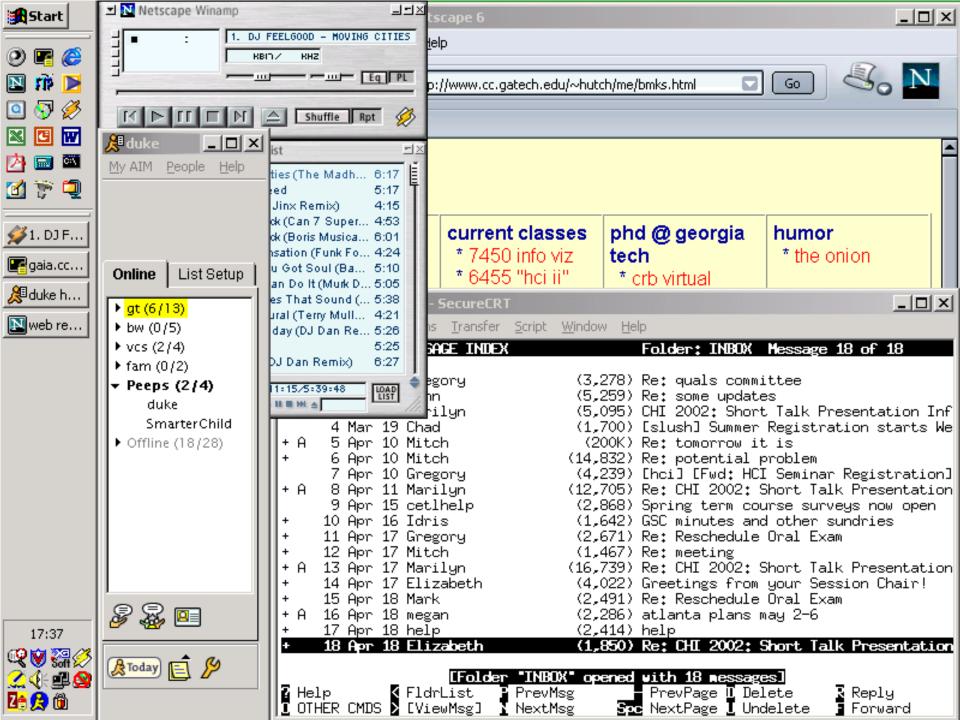
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[1] Introduction – Problem

- **¤** fundamental windowing operations
 - ¤ open, close
 - ¤ move, resize
 - **¤** minimize, maximize
- some find these too weak to effectively handle many windows or tasks
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- **new operations to aid management**
- **¤** specific focus: resizing
 - **¤** "active" window: allocate space
 - **¤** "inactive" windows: preserve information
- **¤** "be smarter than maximize"





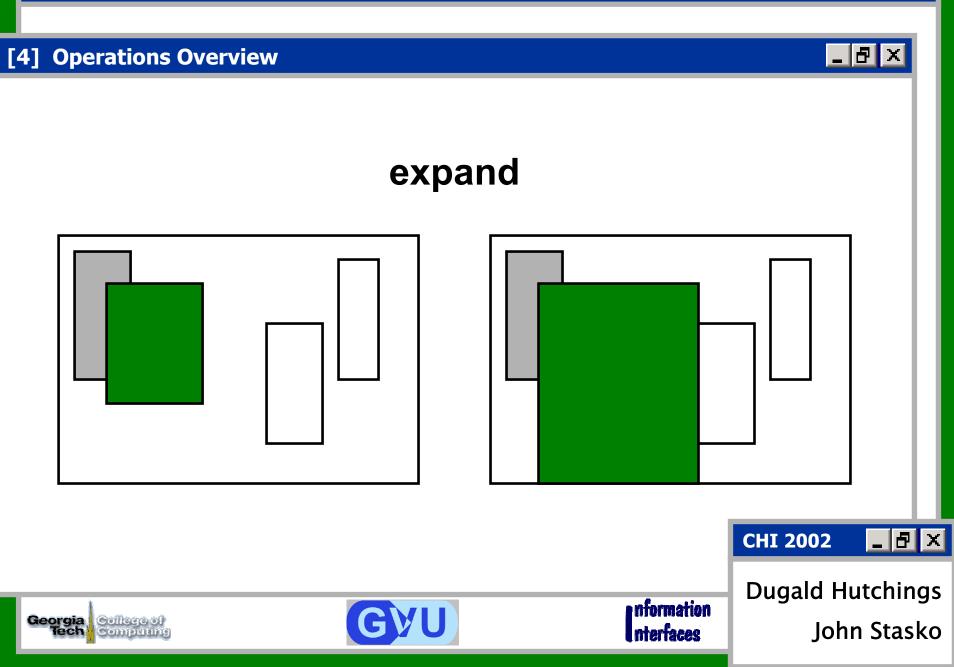


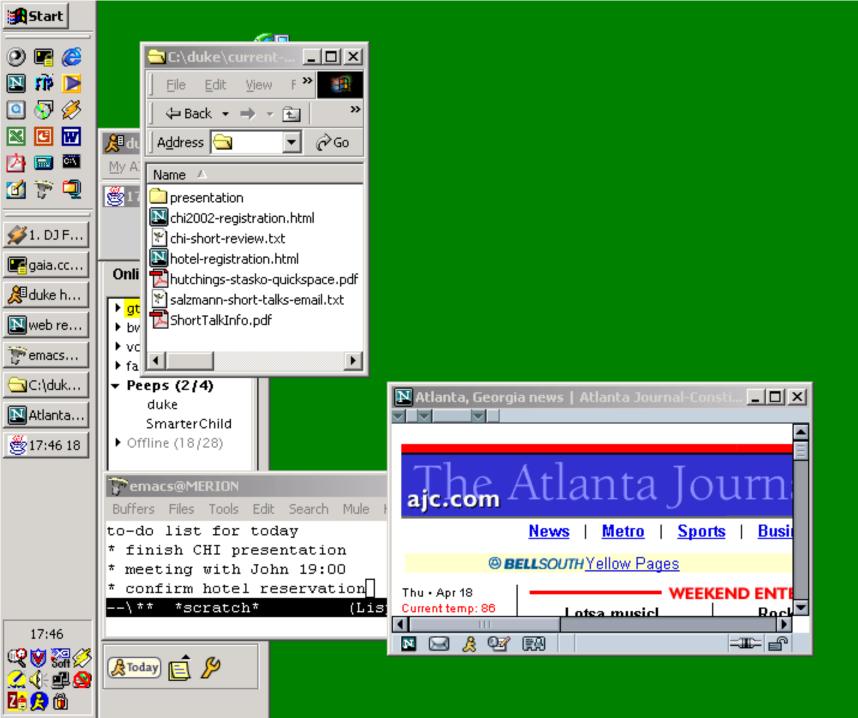
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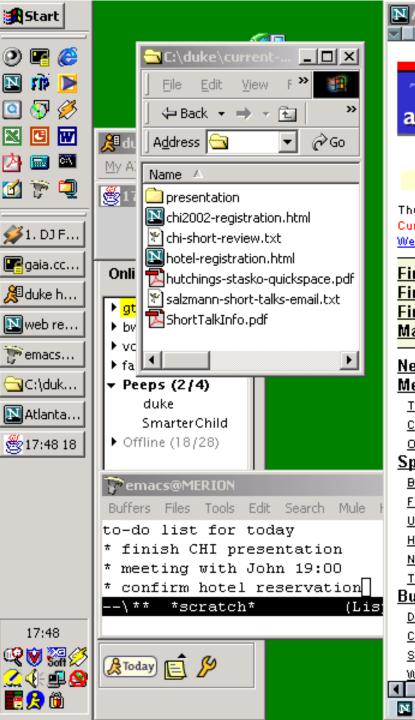
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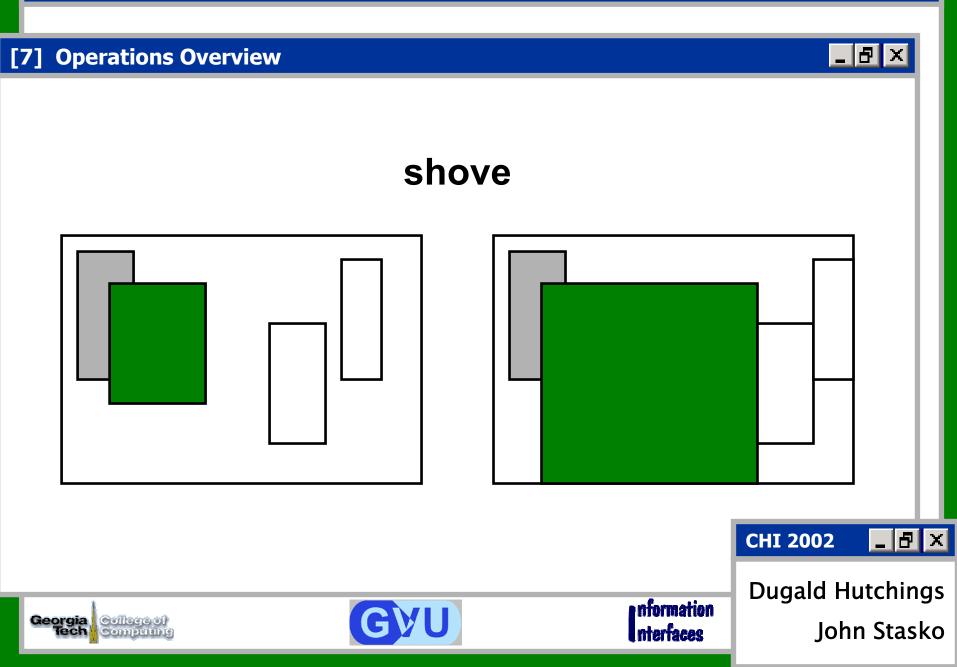


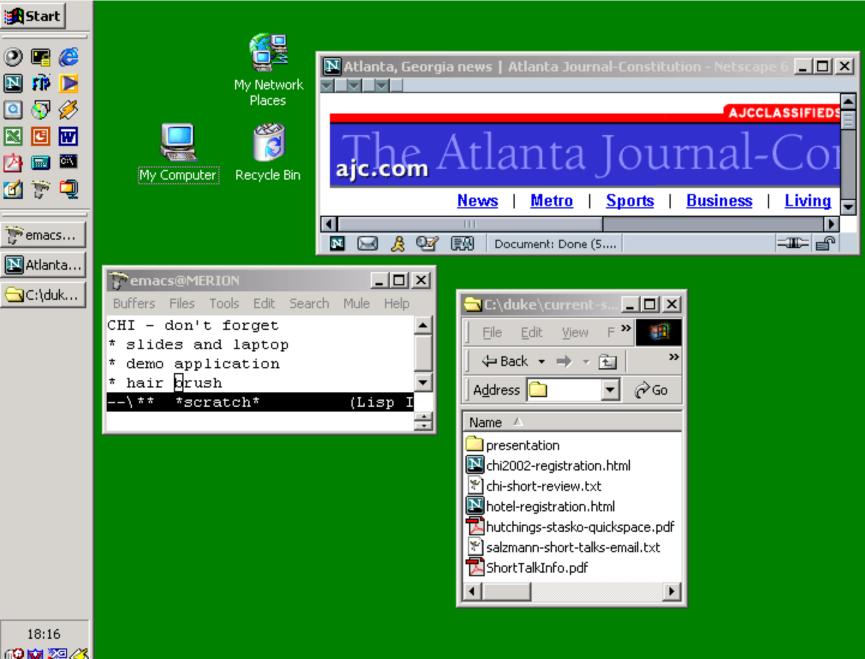




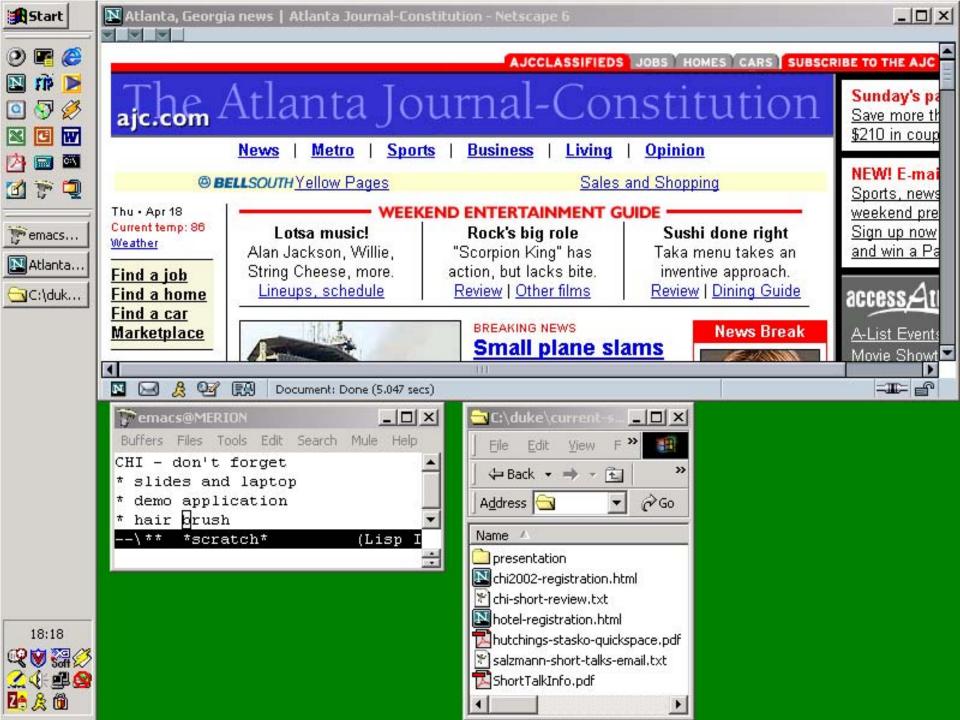
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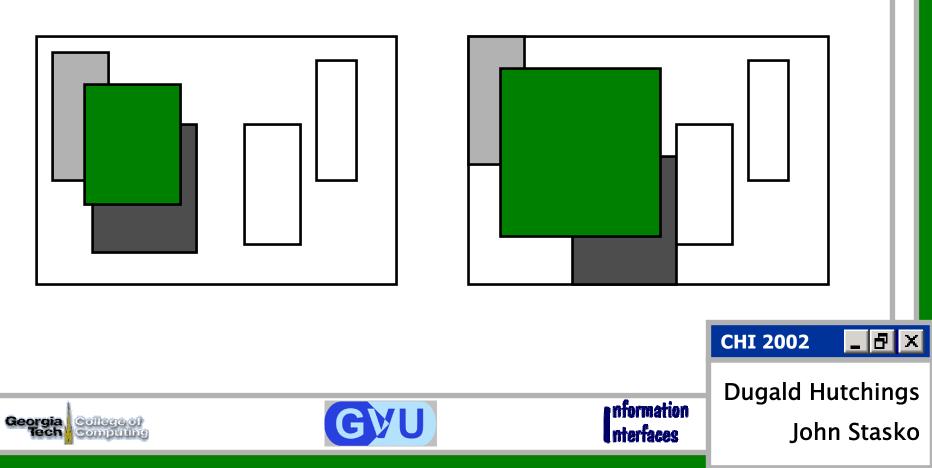


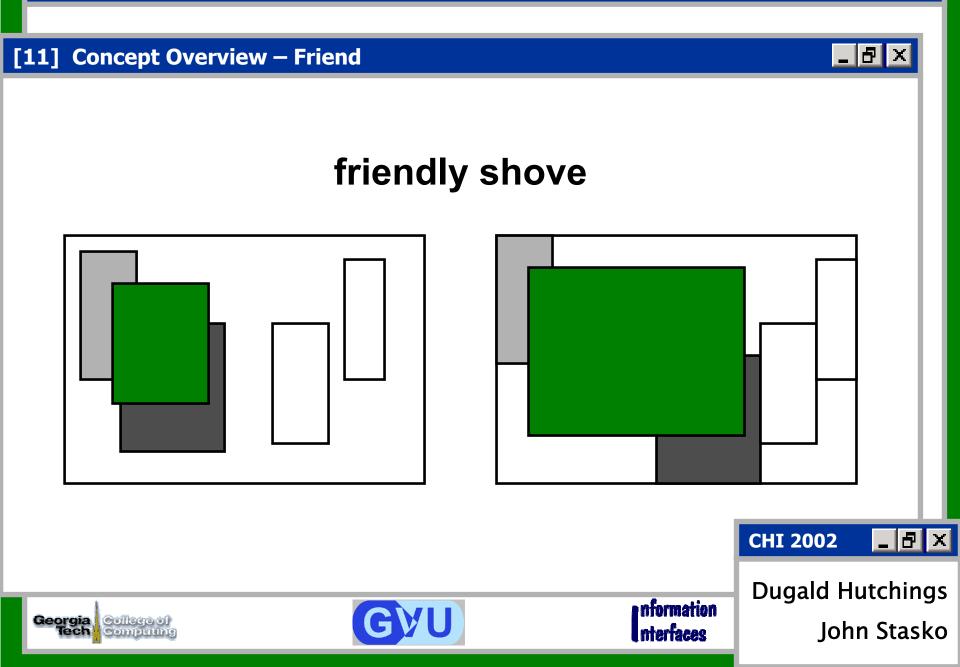




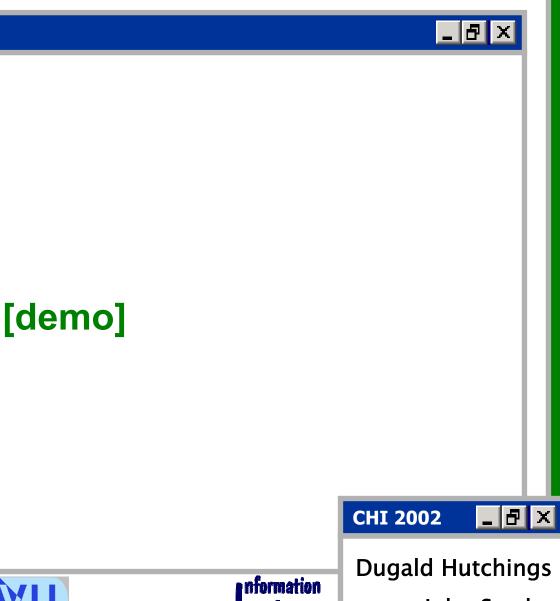


friendly expand













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[13] Friend Concept

¤ any window that growing window overlaps

a calculation of overlap relationship

partial price of a straight of a straight



[14] Undo Operation

recover from any series of move, resize, expand, or shove

useful especially if effects unintended



- **¤** tiling or overlapping desktops
- simplicity of operations (one-click)
- metaphor to physical world

¤ information preservation







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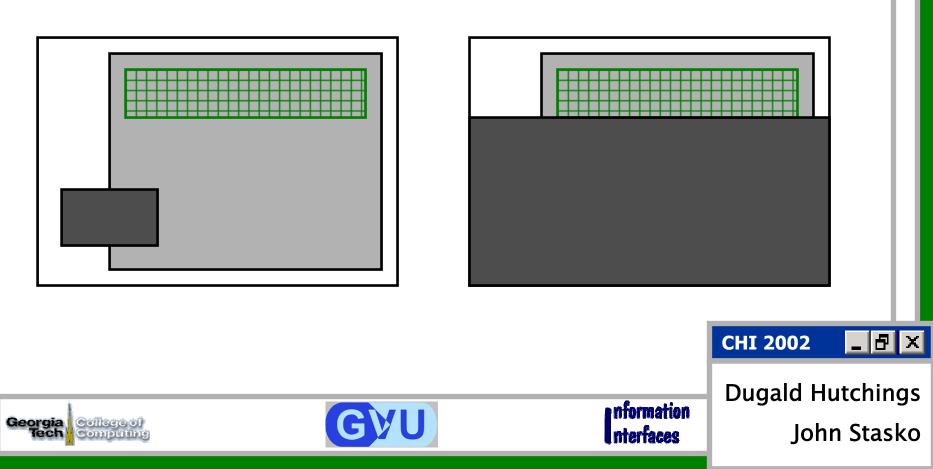
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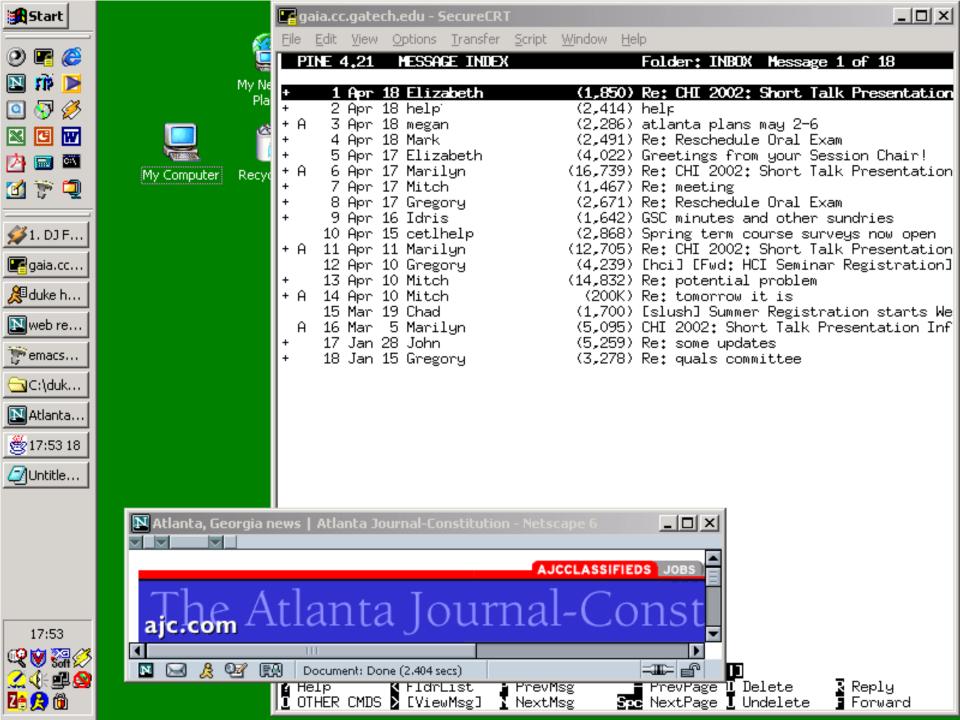


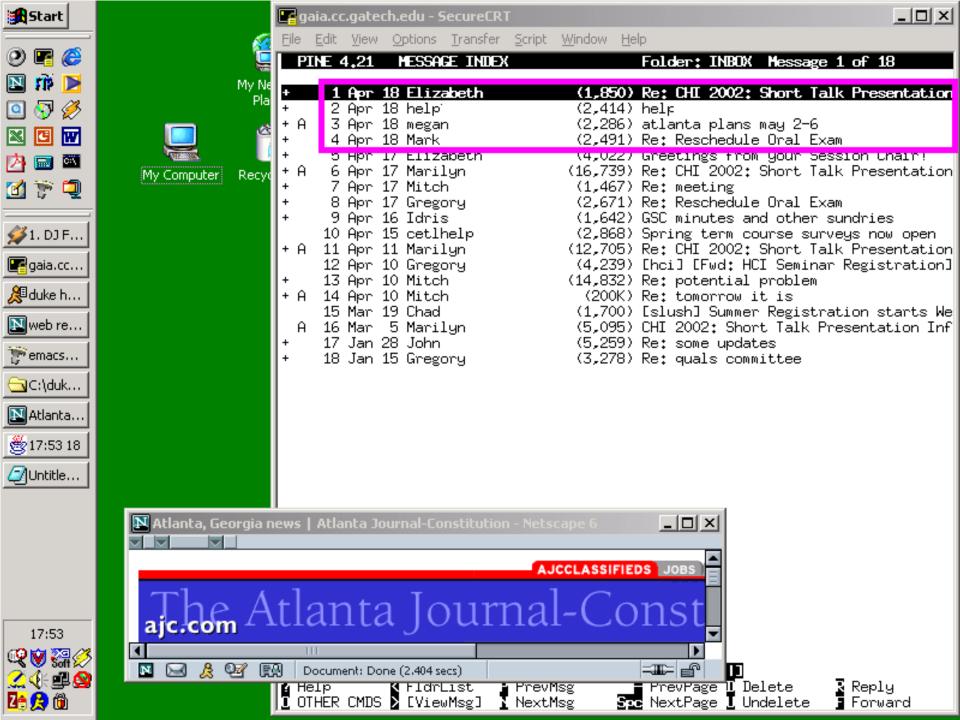
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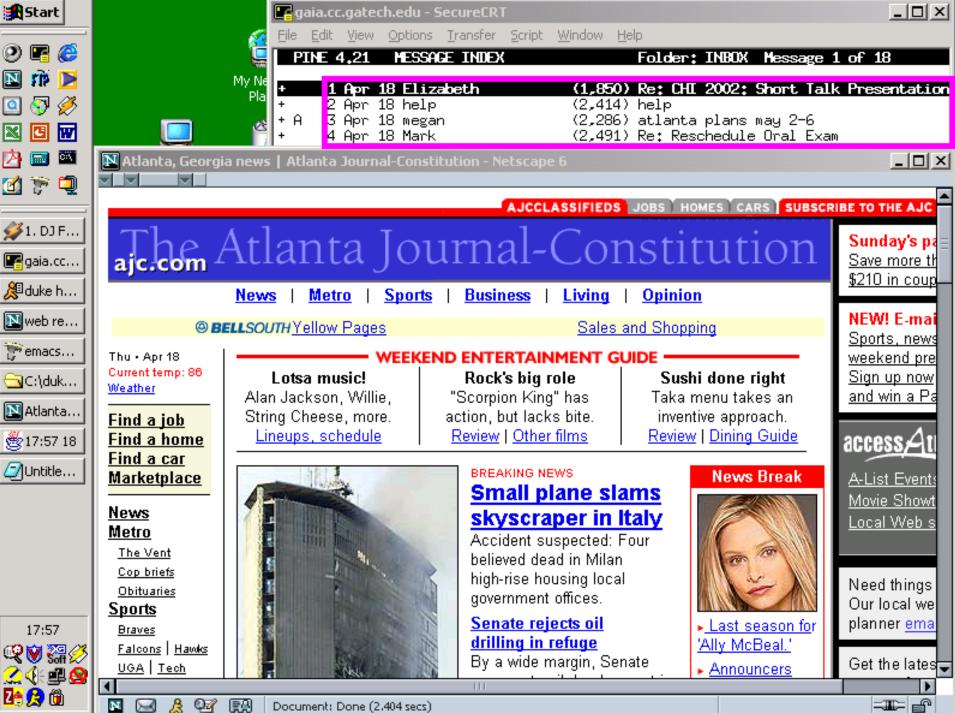
[16] Current Work

relevant regions









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[20] Changes

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Coll

some changes since the paper was submitted

¤ replace friends with neighborhoods

- model of window overlaps
- **precise**, robust algorithms

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[21] Future Work

- change principles for different operations
 sacrifice glancing at a window
 for simple finding of a window
- evaluation of the operations





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Thank You!

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