

# QuickSpace New Window Operations for the Desktop Metaphor

## **Dugald Hutchings & John Stasko**





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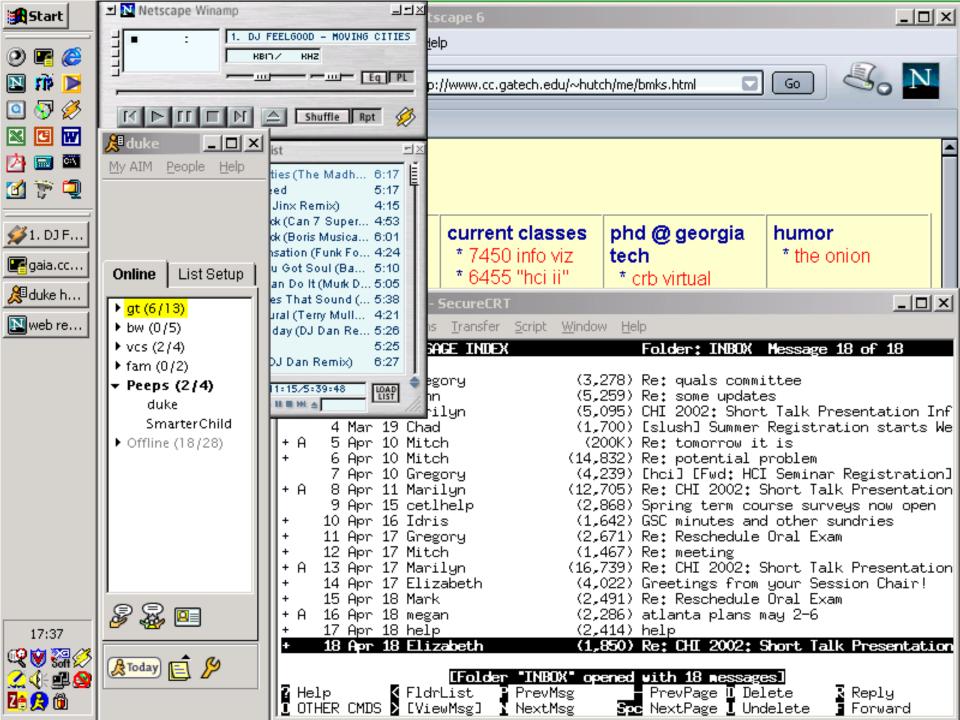
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### [1] Introduction – Problem

- **¤** 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"





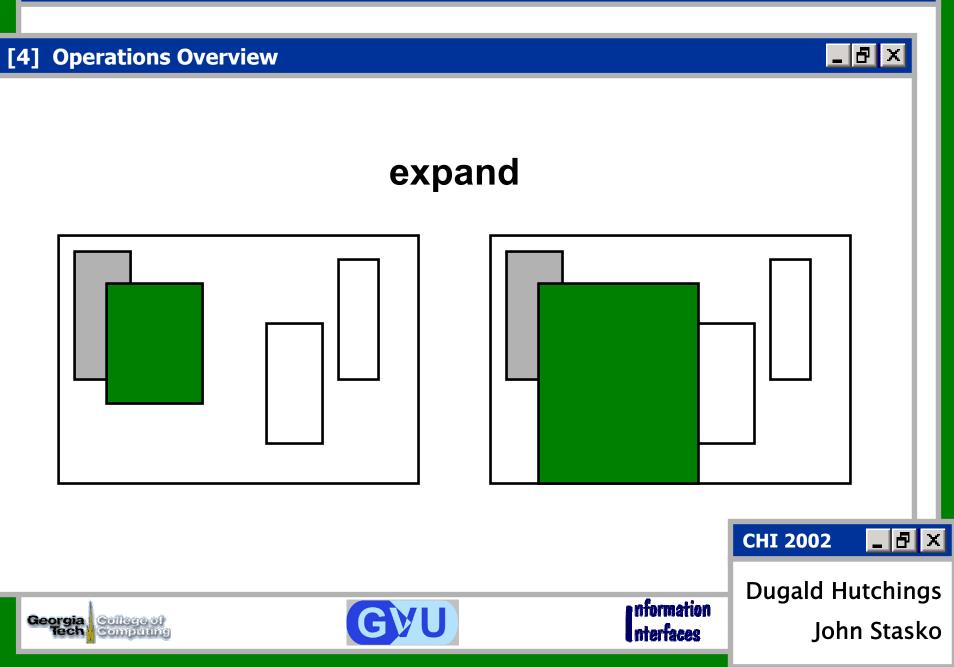


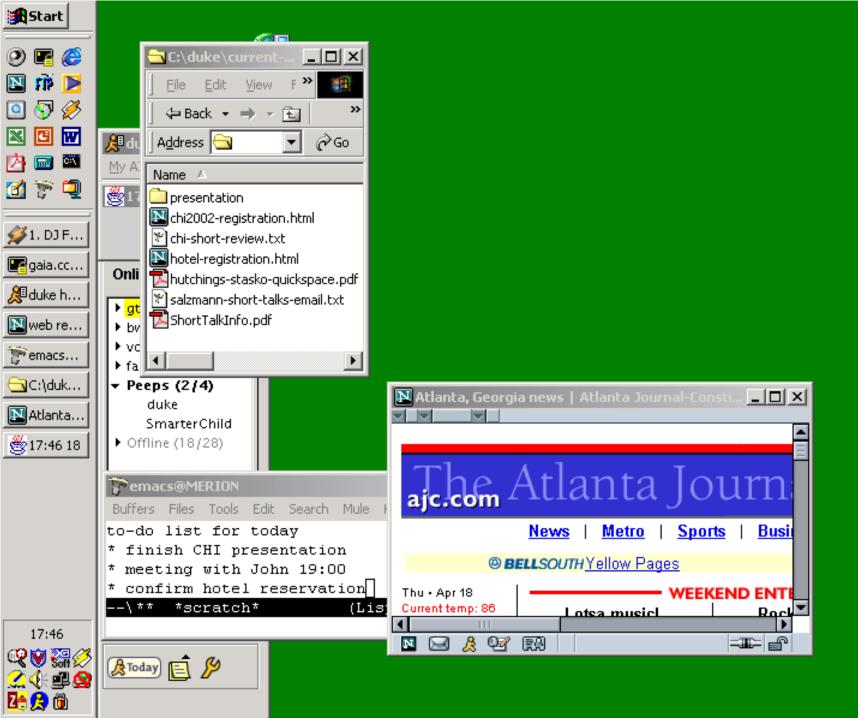
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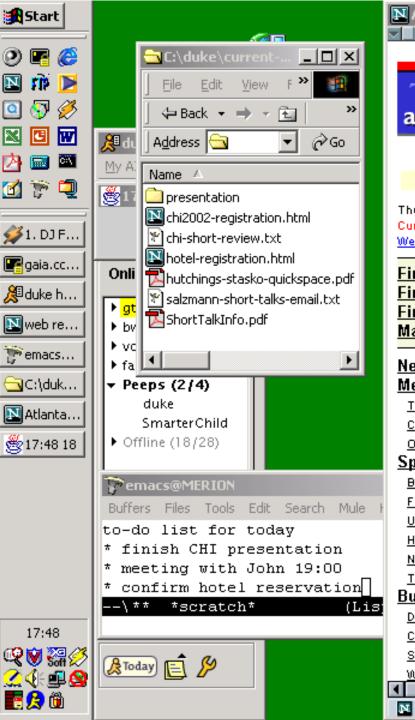
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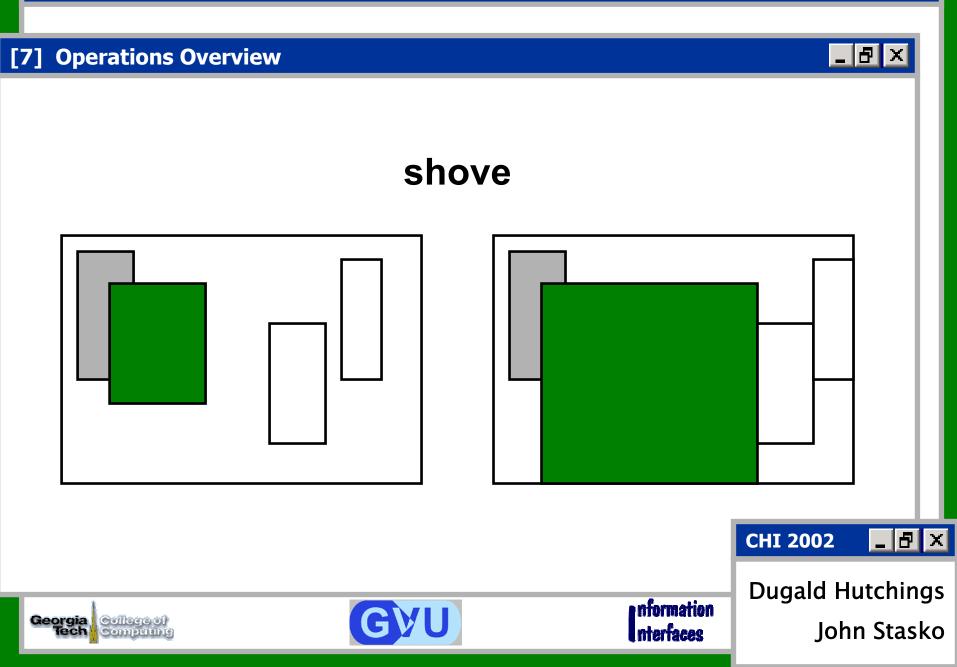


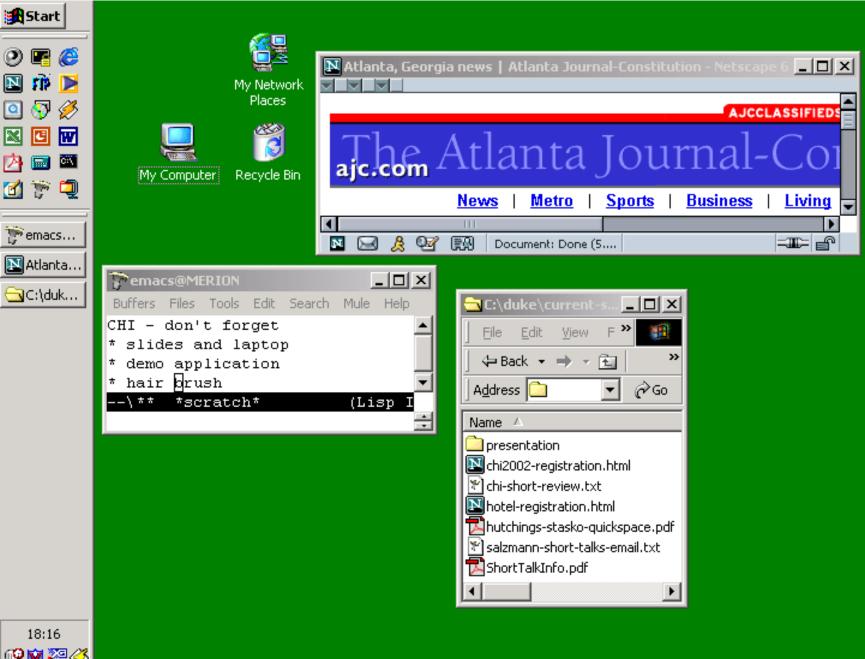




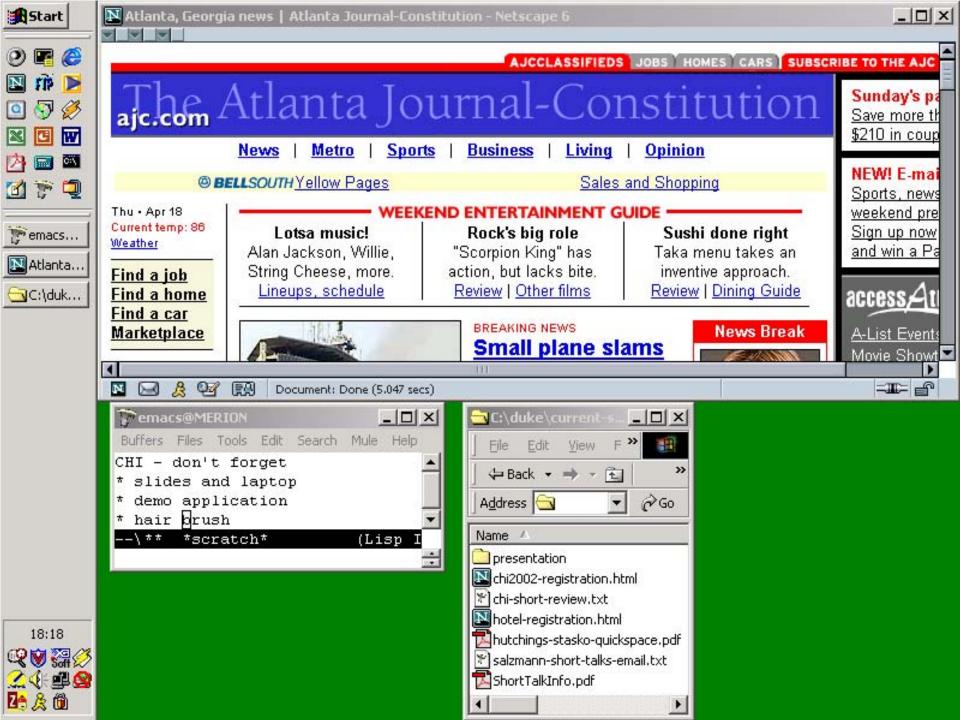
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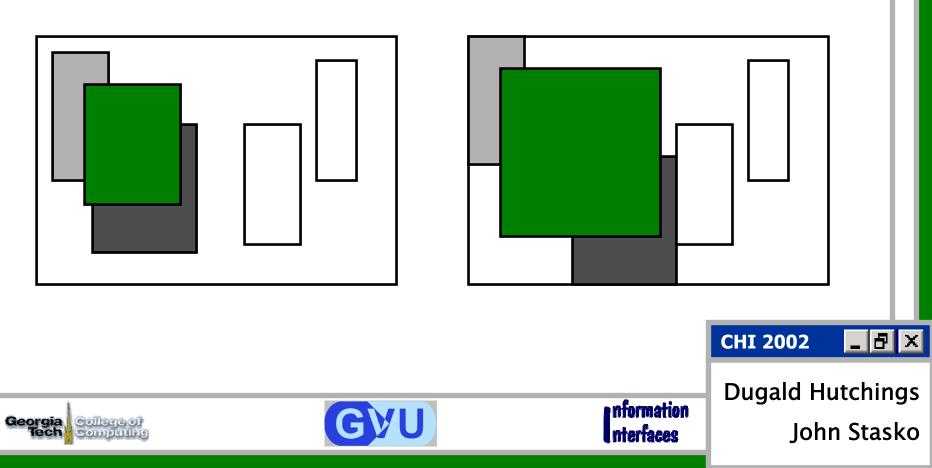


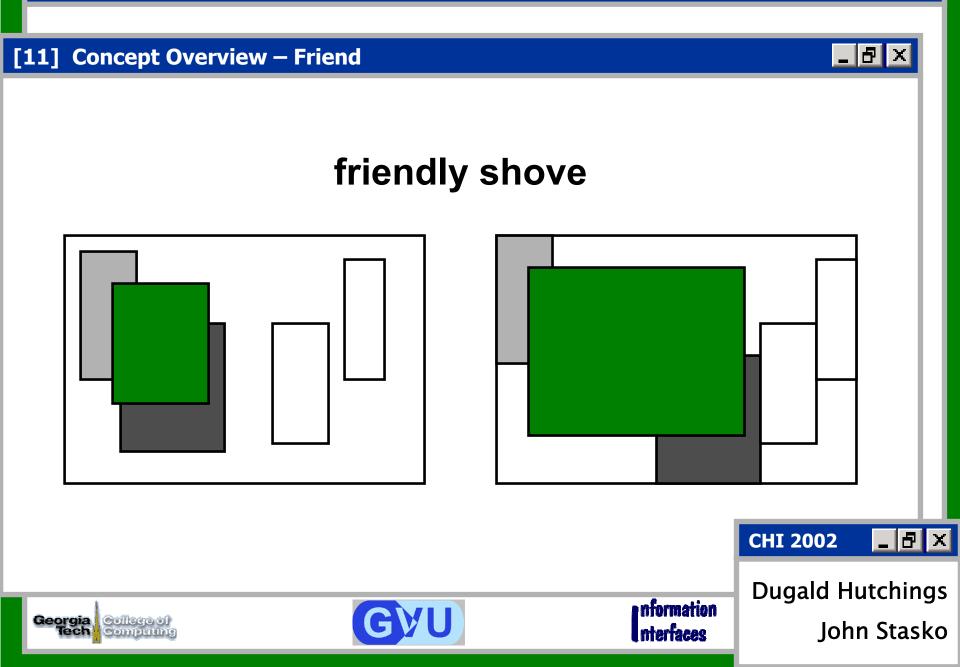




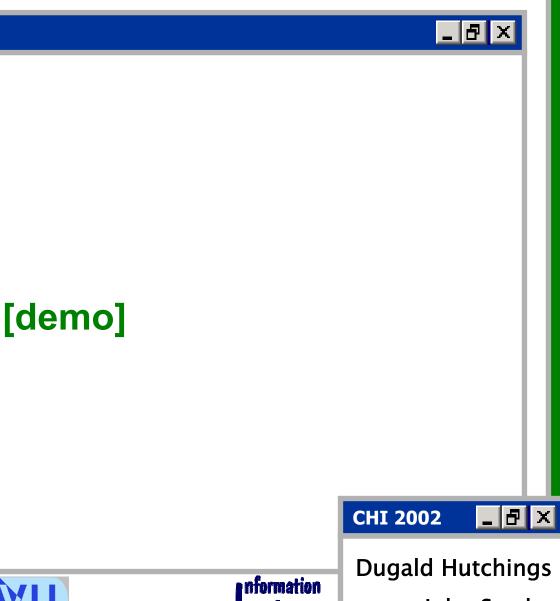


## friendly expand













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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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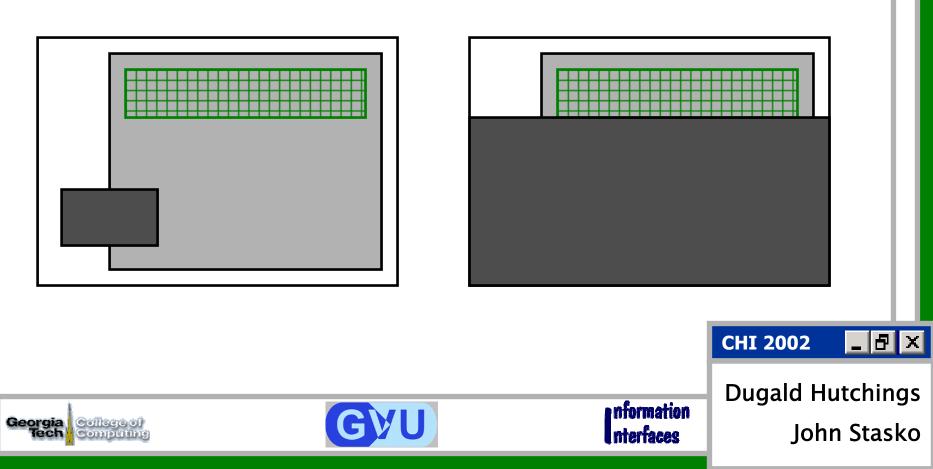
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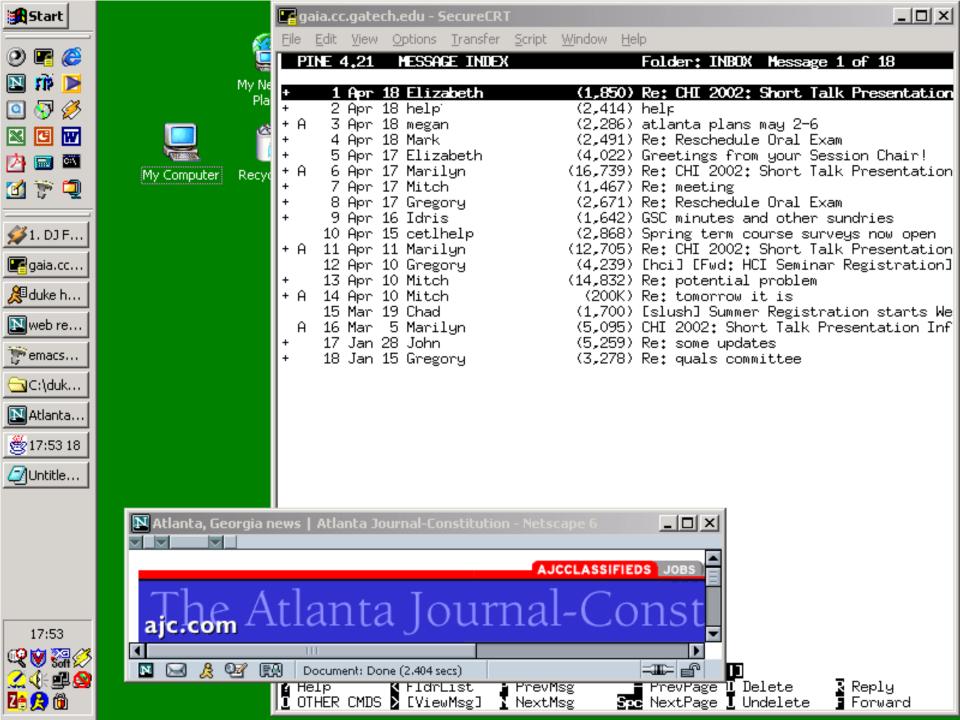


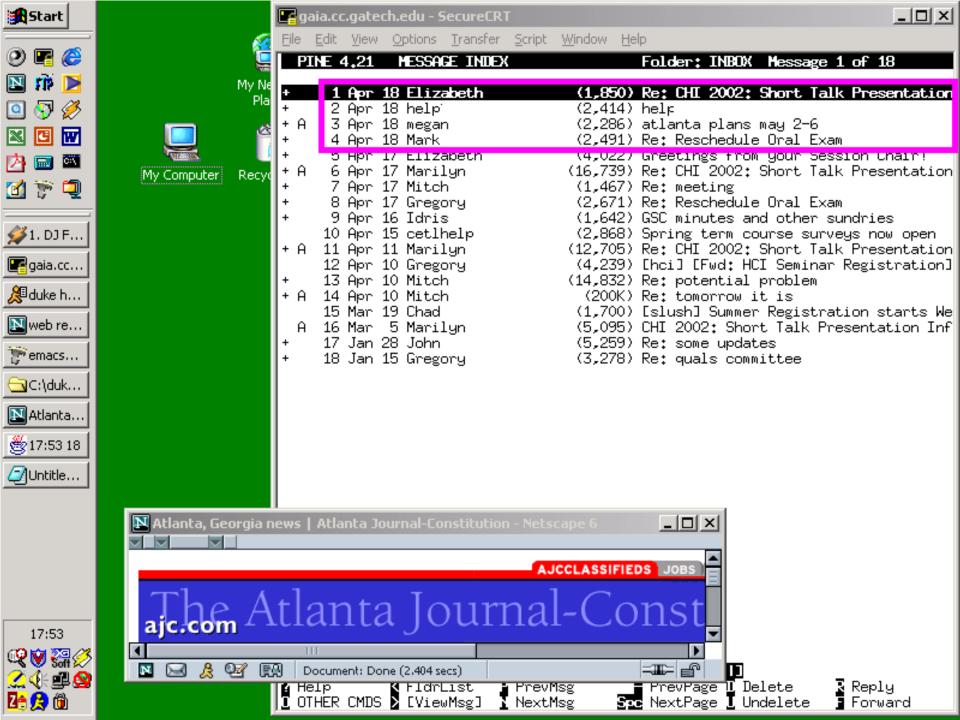
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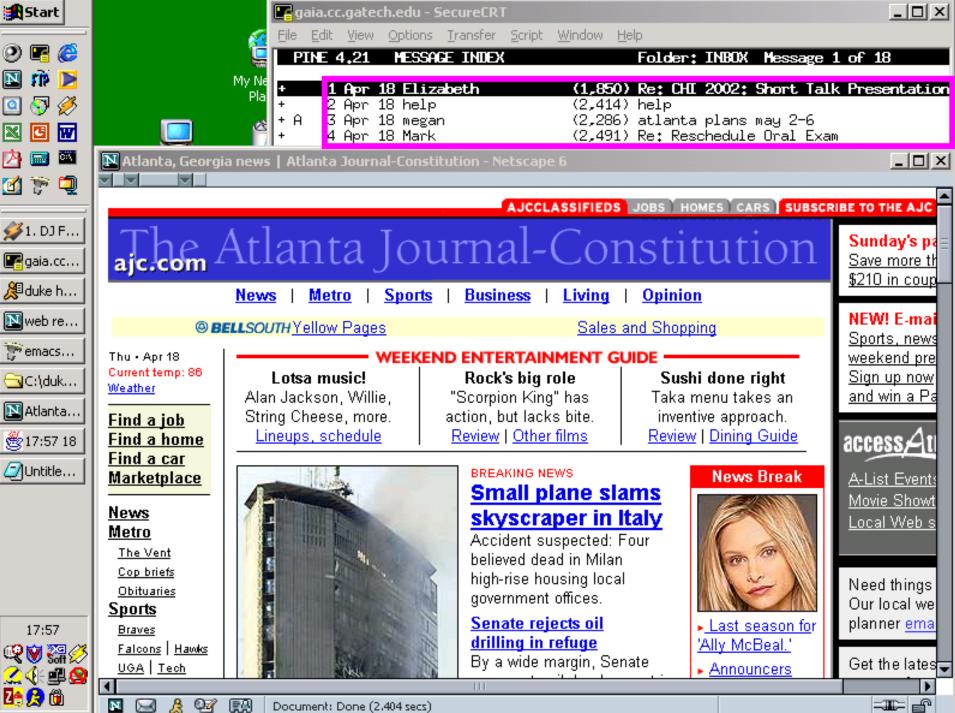
### [16] Current Work

### relevant regions









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#### [20] Changes

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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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