QuickSpace: New Window Operations for the Desktop Metaphor

Dugald Hutchings & John Stasko

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Introduction – Problem

- fundamental windowing operations
  - open, close
  - move, resize
  - minimize, maximize

- some find these too weak to effectively handle many windows or tasks
new operations to aid management

specific focus: resizing
- “active” window: allocate space
- “inactive” windows: preserve information

“be smarter than maximize”
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[4] Operations Overview

expand
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[7] Operations Overview

shove

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Concept Overview – Friend

friendly expand
friendly shove
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- any window that growing window overlaps
- calculation of overlap relationship
- option to “take friends” or “ignore friends”
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[14] Undo Operation

- recover from any series of move, resize, expand, or shove
- useful especially if effects unintended

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Advantages of Expand & Shove

- tiling or overlapping desktops
- simplicity of operations (one-click)
- metaphor to physical world
- information preservation
relevant regions
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+ 1 Apr 18 Elizabeth  (1.850) Re: CHI 2002: Short Talk Presentation
  + 2 Apr 18 help`  (2.414) help
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[20] Changes

- some changes since the paper was submitted
  - replace friends with neighborhoods
  - model of window overlaps
  - precise, robust algorithms
Future Work

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

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