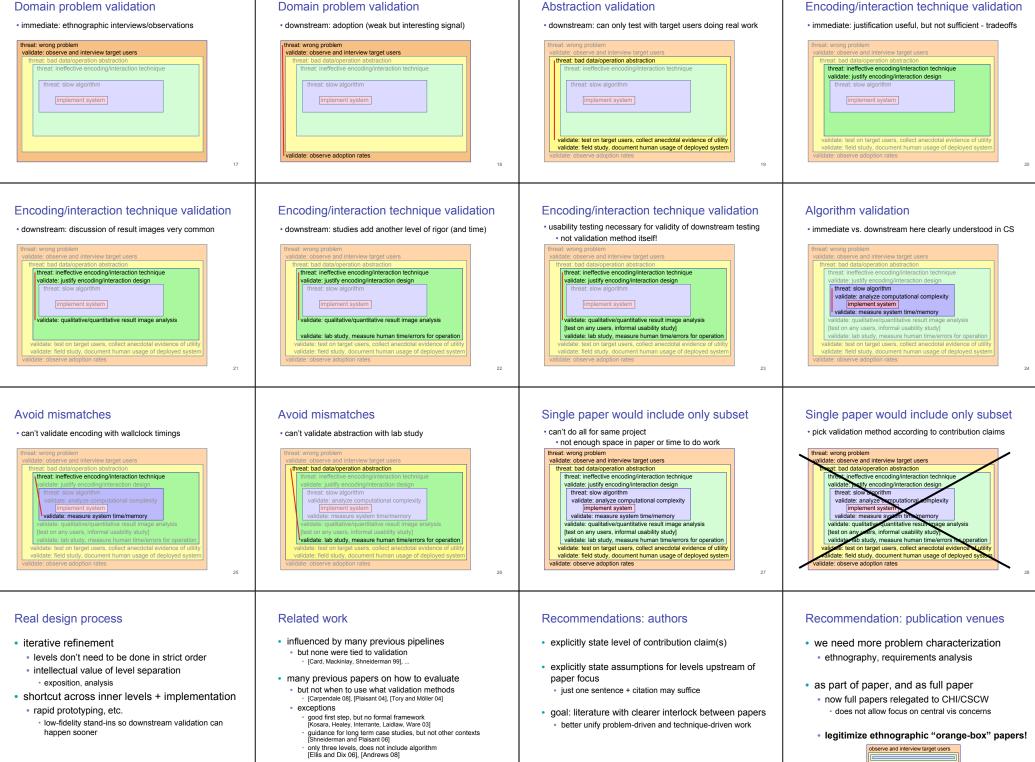


Domain problem validation



Lab study as core now deemed legitimate

2 A A A A A A A A A A A A A A A A A A A	0
MatrixExplorer. Henry and Fekete. InfoVis 2006. observe and Interview target users Justify encoding/interaction design measure system time/memory	Effectiveness of animation in trend visualization. Robertson et al. InfoVis 2008.
LiveRAC. McLachlan, Munzner, Koutsofios, and North. CHI 2008.	Interactive visualization of genealogical graphs. McGutfin and Balakrishnan. InfoVis 2005.
observe and interview target users justify encoding/interaction design qualitative result image analysis	qualitative result image analysis test on target users, get utility anecdotes
field study, document deployed usage An energy model for visual graph clustering. (LinLog) Noack. Graph Drawing 2003 qualitative/quantitative image analysis	Flow map layout. Phan et al. InfoVis 2005. Justify encoding/interaction design computational complexity analysis measure system time/memory qualitative result image analysis

Limitations

- oversimplification
- not all forms of user studies addressed
- infovis-oriented worldview
- are these levels the right division?

Conclusion

- new model unifying design and validation
 guidance on when to use what validation method
 broad scope of validation, including algorithms
- recommendations

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 be explicit about levels addressed and state upstream assumptions so papers interlock more
 we need more problem characterization work

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these slides posted at http://www.cs.ubc.ca/~tmm/talks.html#iv09