CIFE Interactive Workspace: Vision, Goals, and Results to Date

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Research Motivation

• Project information does not support decision-making tasks
• Relationships are not communicated

Does this meet the milestones in the contract? How does this sequence impact productivity? When do we have access to this area? Why are you starting this activity on this date? What happens if...?
Motivation

- didn’t use a lot of the information
- spent a lot of time explaining, describing information
- couldn’t make decision

Difficult to Relate Information

- Different types of information
- Different forms
- Tools don’t capture relationships
Research Vision

Use annotative visualization techniques to relate information

- highlight: visually relate information in different views
- overlay: visually relate information in same view

Research Vision

Workspace today

Future Workspace
Research Vision: Highlight Example

Research Vision: Overlay Example
Research Goals

• Test visualization techniques effect on decision-making tasks

• Define strategy to extend existing data model and application frameworks to support ‘valuable’ techniques

Initial Scope: Mock-Ups
Current Work: Workspace Charrettes

- Interactive test to compare visualization techniques
- Uses browser, event heap, and java applets

Future Scope: Implementation

- overface
- workspace database
- project database
Workspace Issues

- infrastructure:
  - reliability/portability (how can we demo beyond space)
  - support/testing
- overface/UI:
  - consistent interaction language
  - room controller and API
- general:
  - more users, manage time in space

Workspace Opportunities

- Funding for next year:
  - CIFE Proposal
  - NSF Proposal
  - ITR?
- Potential areas of interest:
  - implementing workspace/project database (transform server, style sheet, etc.)
  - exploring UI issues for navigating and interacting with information
- Potential resources on CS side?