ROLES OF NOTES IN CO-LOCATED COLLABORATIVE VISUALIZATION



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Problem

How to best support record-keeping in co-located collaborative visualization?





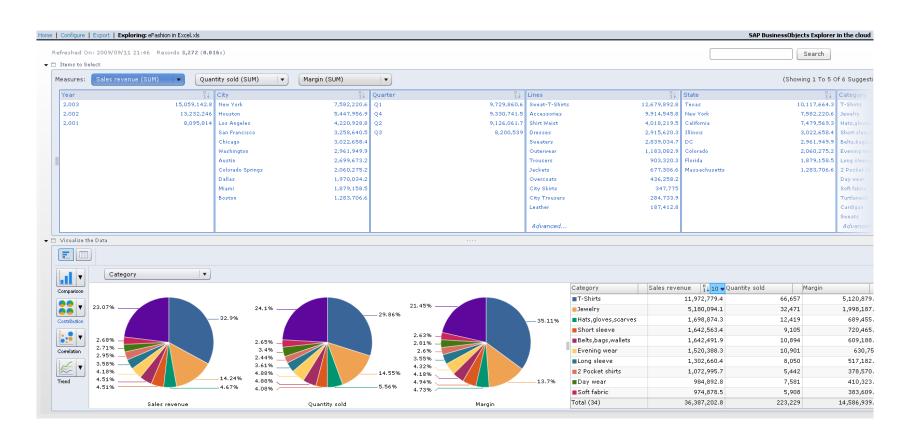
User Study

- Objective: Studying users' behavior while collaboratively visualizing and analyzing business data using large displays
- Apparatus: wall and tabletop display
- Participants: 27 (9 groups of 3)
- Tasks:
 - Task 1 :6 focused questions.
 - Task 2 :a business case.



Apparatus

Software: Polestar on demand



Note Content

- High level category:
 - Findings (e.g. observations, decisions)
 - Cues (e.g. to-do list)
- Lower level category:
 - Numbers (e.g. data value)
 - Drawing (e.g. flag, chart)
 - Text (e.g. question, reminder)
 - Symbols (e.g. %, \$)

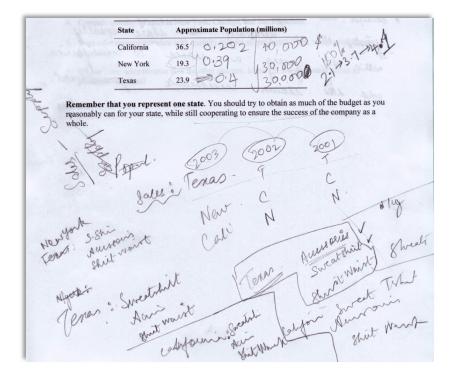


Note's Scope

Group note

Personal note

| | State | Approximate Population (millions) |
|--|---|-----------------------------------|
| | California | 36.5 45.8% of 79.7 total |
| | New York | 19.3 24.290 100 |
| | Texas | 23.9 30% Mid |
| | an for your state, 4s $3.32.8st$ 1.1 | 5 35 40 % of budget |



Note Usage

- Further analysis
- Facilitate problem solving
- Create reports/presentation
- Validate
- □ Reminder



Possible solutions

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- □ Integrating notes with the visual representation.
- □ Adding speech to text annotation feature.
- Different mechanism for personal and group notes.
- □ Integrating group notes into a history mechanism.
- Support personal notes with paper, digital paper, wireless pens.



Discussion

- How can we best support note taking?
- Should it be integrated into a history mechanism or should be a separate component?
- Should history mechanism be automated or user controlled?
- How can we support both individual and group notes?
- How to use personal notes if needed?

