EXAMINING DESIGN-BASED IMPLEMENTATION RESEARCH (DBIR) THROUGH LINKOGRAPHIC ANALYSIS
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BACKGROUND
While DBIR is a widely used methodology, open questions remain about the nuanced practices to make decisions that produce interventions. Examining the design process can improve processes, share insights about scaffolding productive discussion, and provide rich examples. Responding to the call for more in-depth analysis of collaborative design processes (Kolodner et al., 2016), I examine how an interdisciplinary team of researchers and users designed a collaborative orchestration tool.

METHODS
PARTICIPANTS: 12 person design team from four disciplines
CONTEXT: 3 hour meeting recording of a design meeting
DATA: Video and audio data, sketches, notes, and photos
ANALYSIS: Linkographic analysis

FINDINGS
The team engaged in collaborative, high linked discussions. Integrated areas had higher levels of interdisciplinary collaboration and more critical moves compared to segmented and intersecting areas. Integrated areas were often proceeded by moments of reflection. Ideas generated in integrated areas led to concrete decisions that were implemented in the orchestration tool.

Effective strategies in the design process:
- Make goals for the project and design activities explicit
- Add moments for reflection during and after design activities
- Document ideas and changes
- Build relationships to support collaborative discussions

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METHODS

FINDINGS

LINKOGRAPHIC REPRESENTATION

PATTERNS OF INTERACTION OVER TIME