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

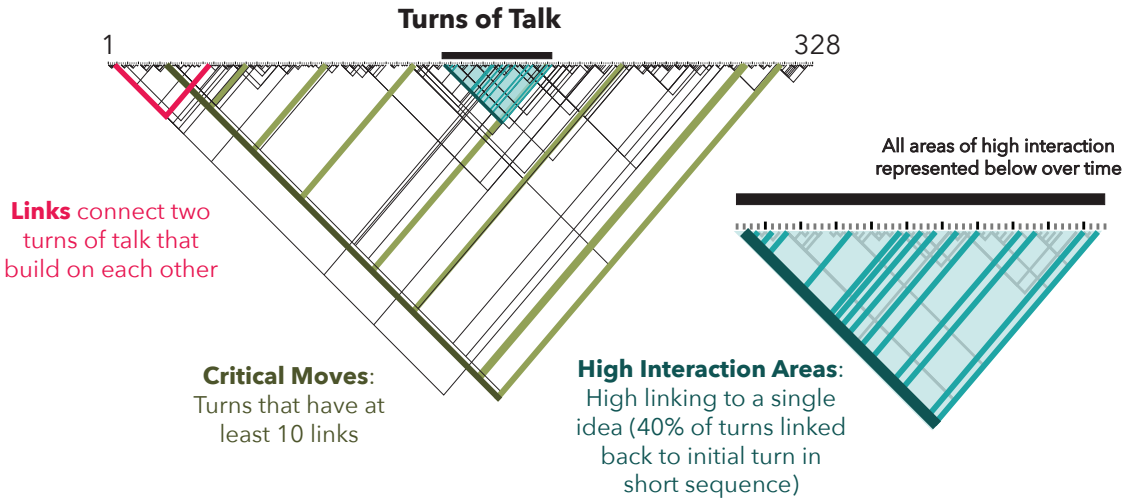
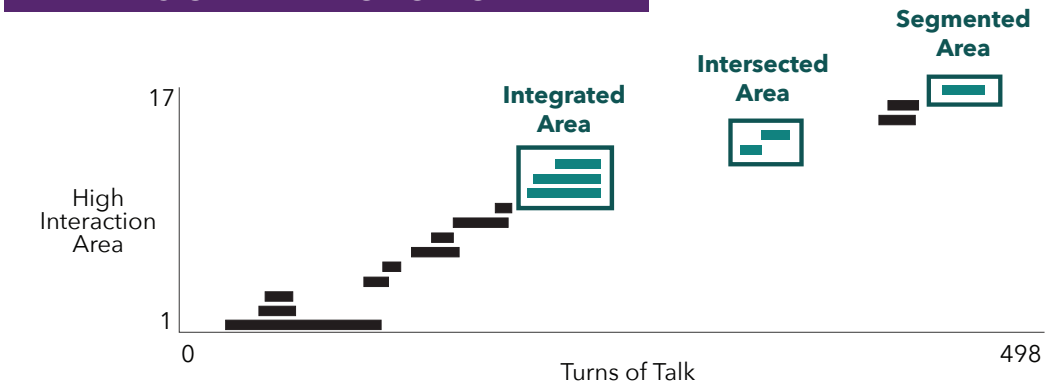
FINDINGS

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

LINKOGRAPHIC REPRESENTATION



PATTERNS OF INTERACTION OVER TIME