

SensePath: Understanding the Sensemaking Process through Analytic Provenance

Phong H. Nguyen, Kai Xu, Ashley Wheat, B.L. William Wong, Simon Attfield, and Bob Fields



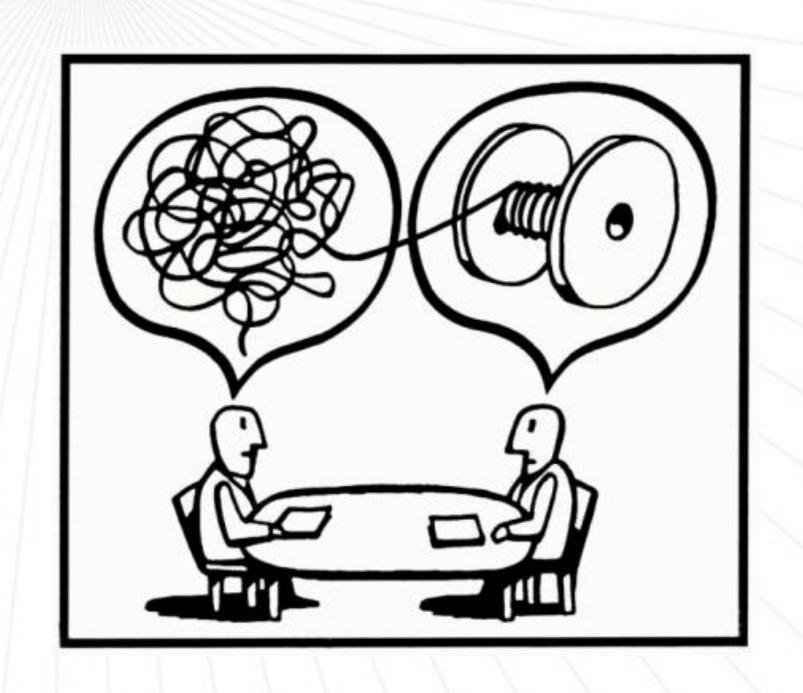
Sensemaking

- What?
 - gain insight, produce knowledge, inform action
 - holiday planning
- Why understand?
 - build effective tools to improve current processes

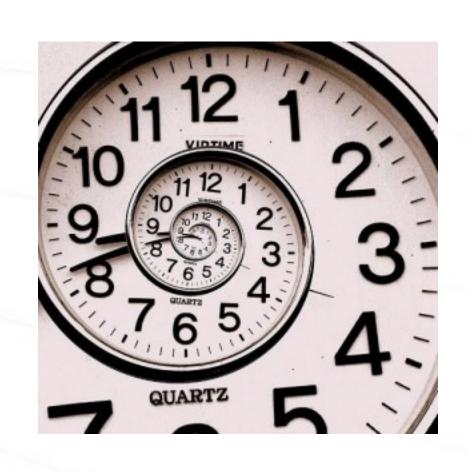




How to Understand the Sensemaking Process?







Study

Collection — Coding Categorization Model







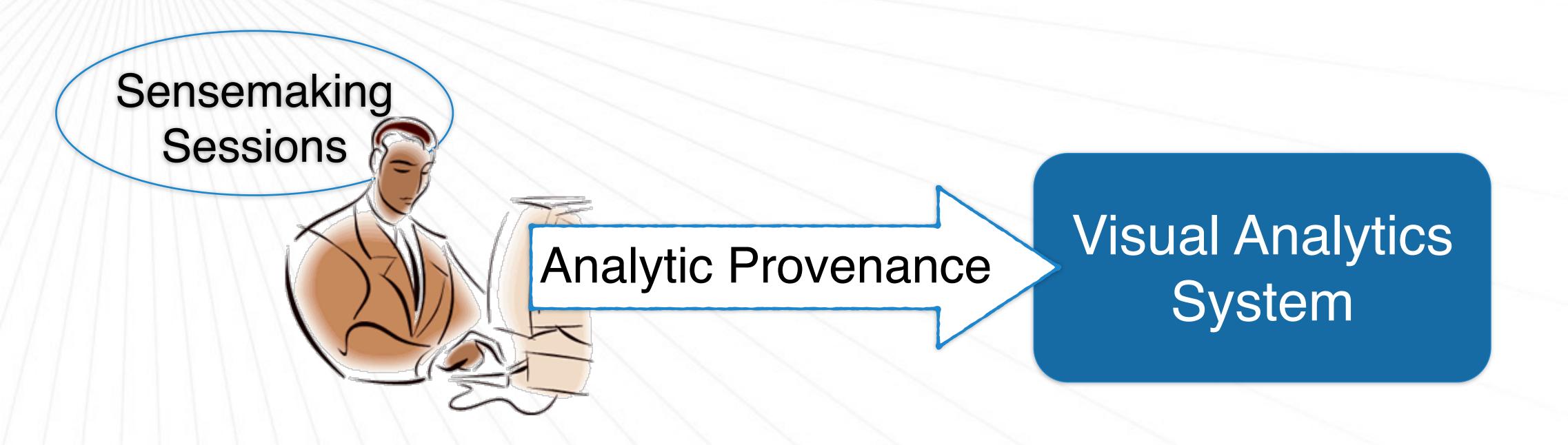
Requirements

- Support thematic analysis
- Accelerate transcription and coding
- Integrate with existing workflow





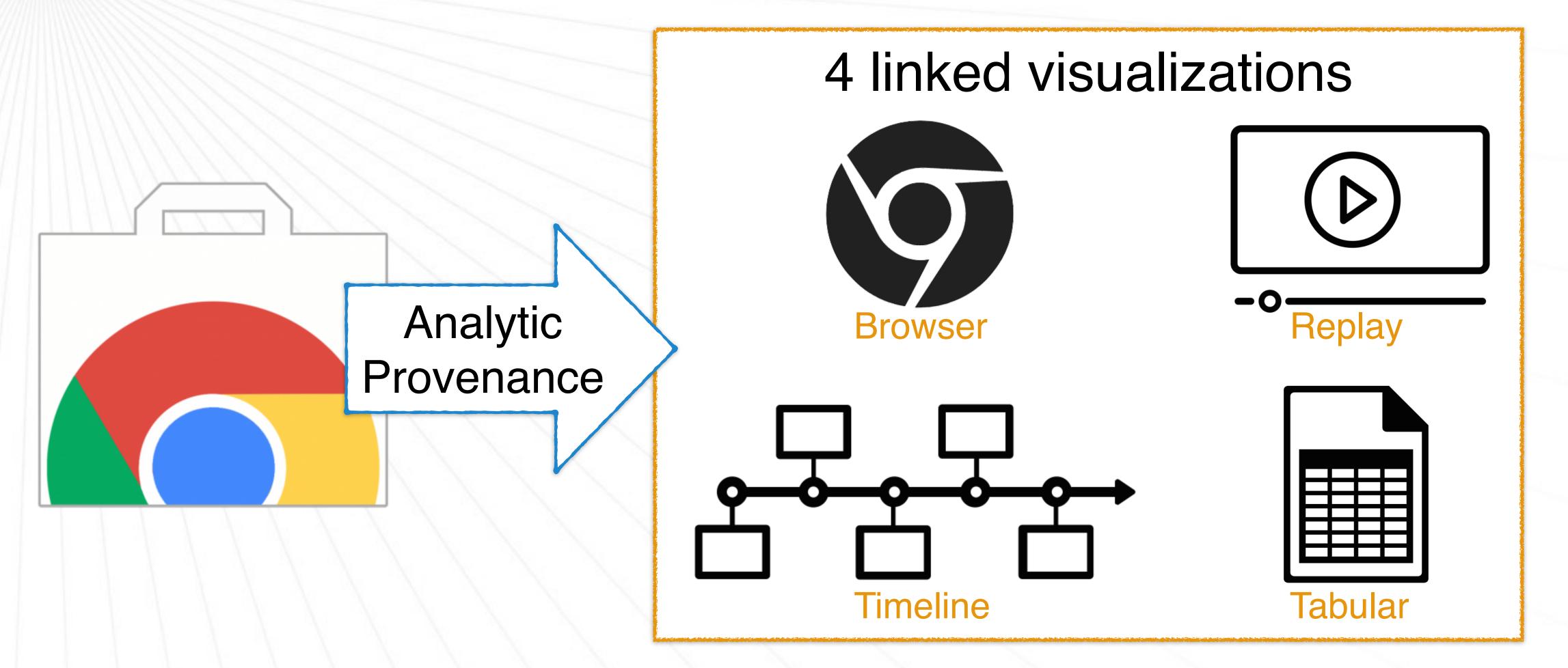
General Approach







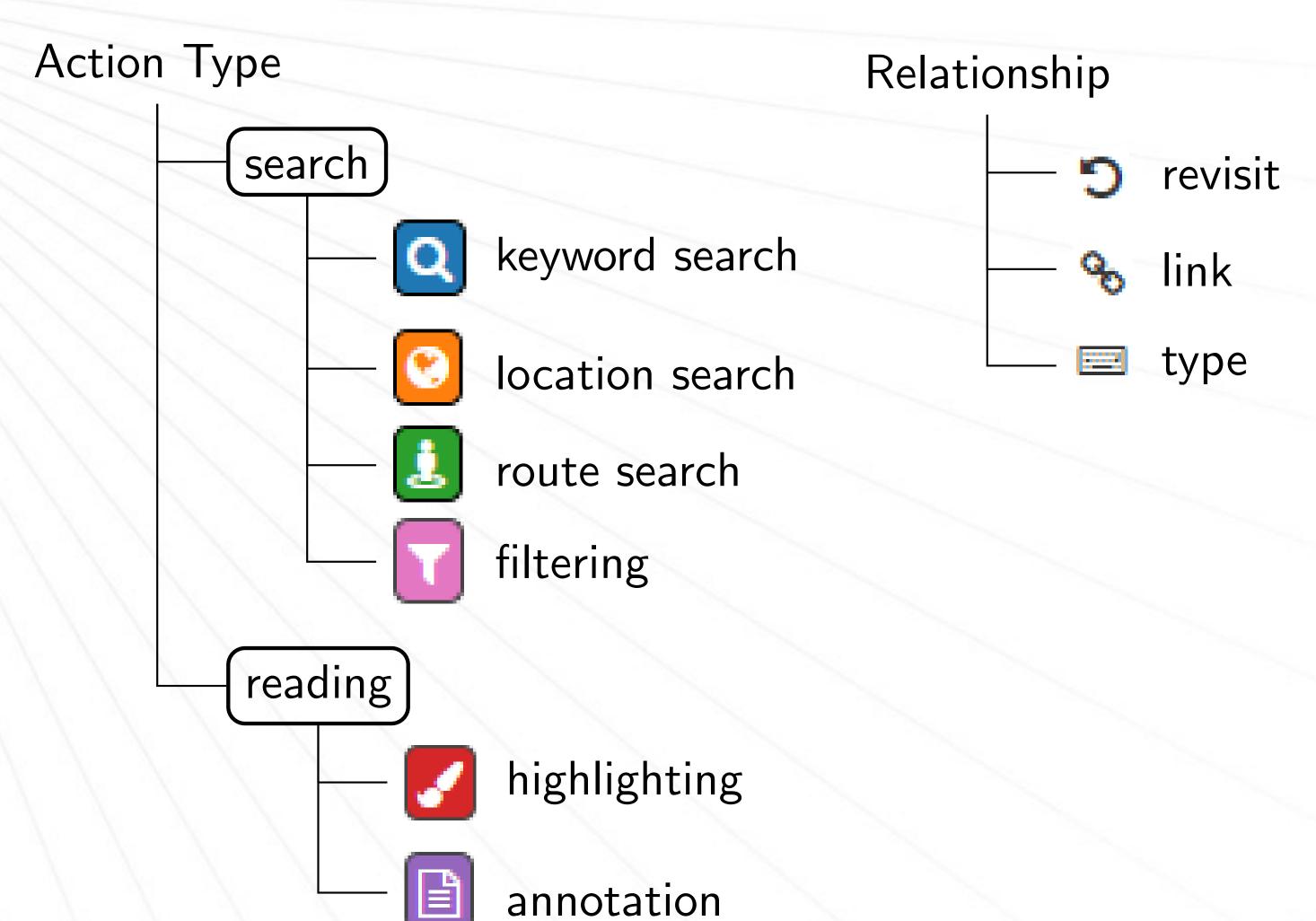
SensePath





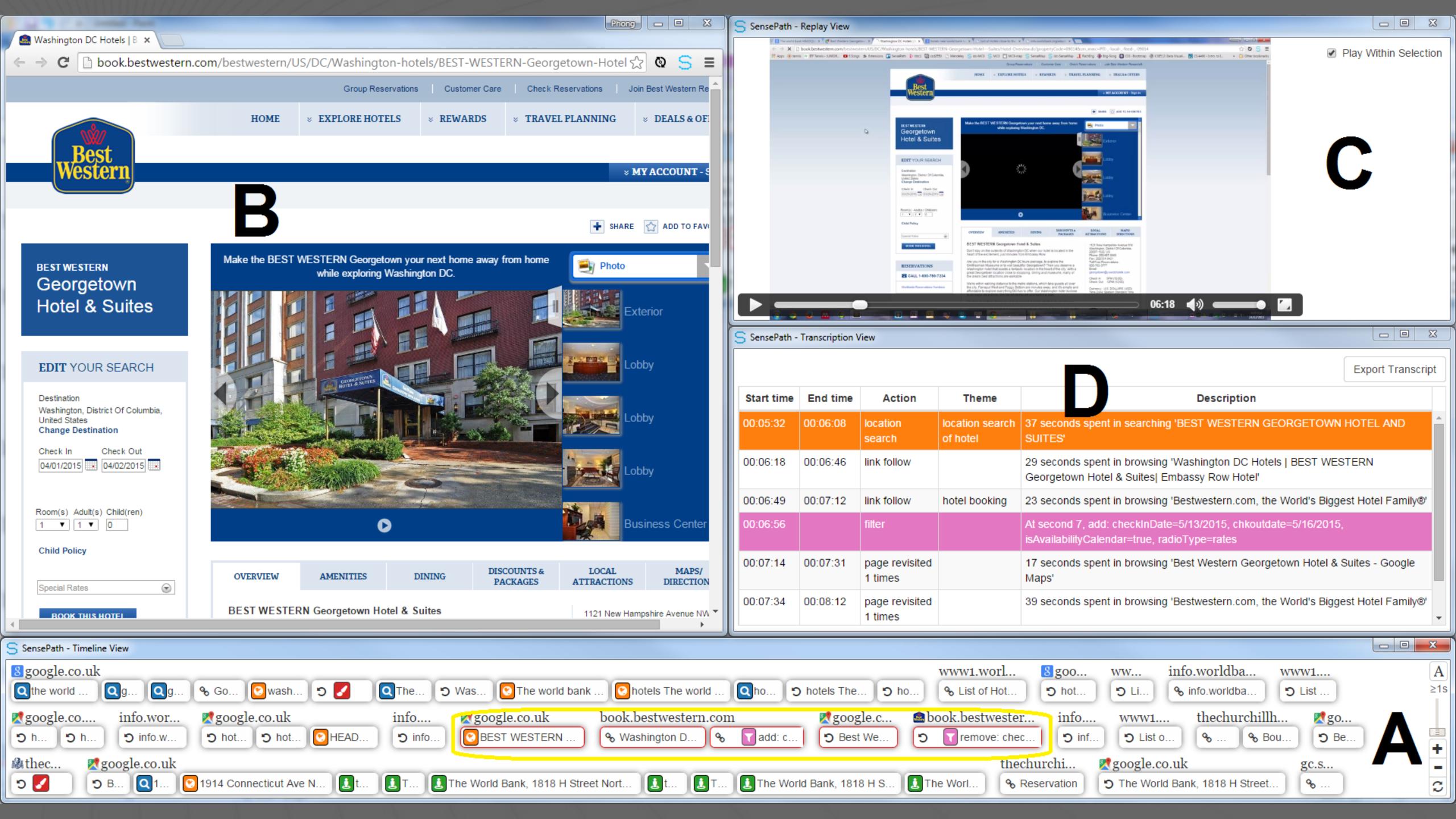


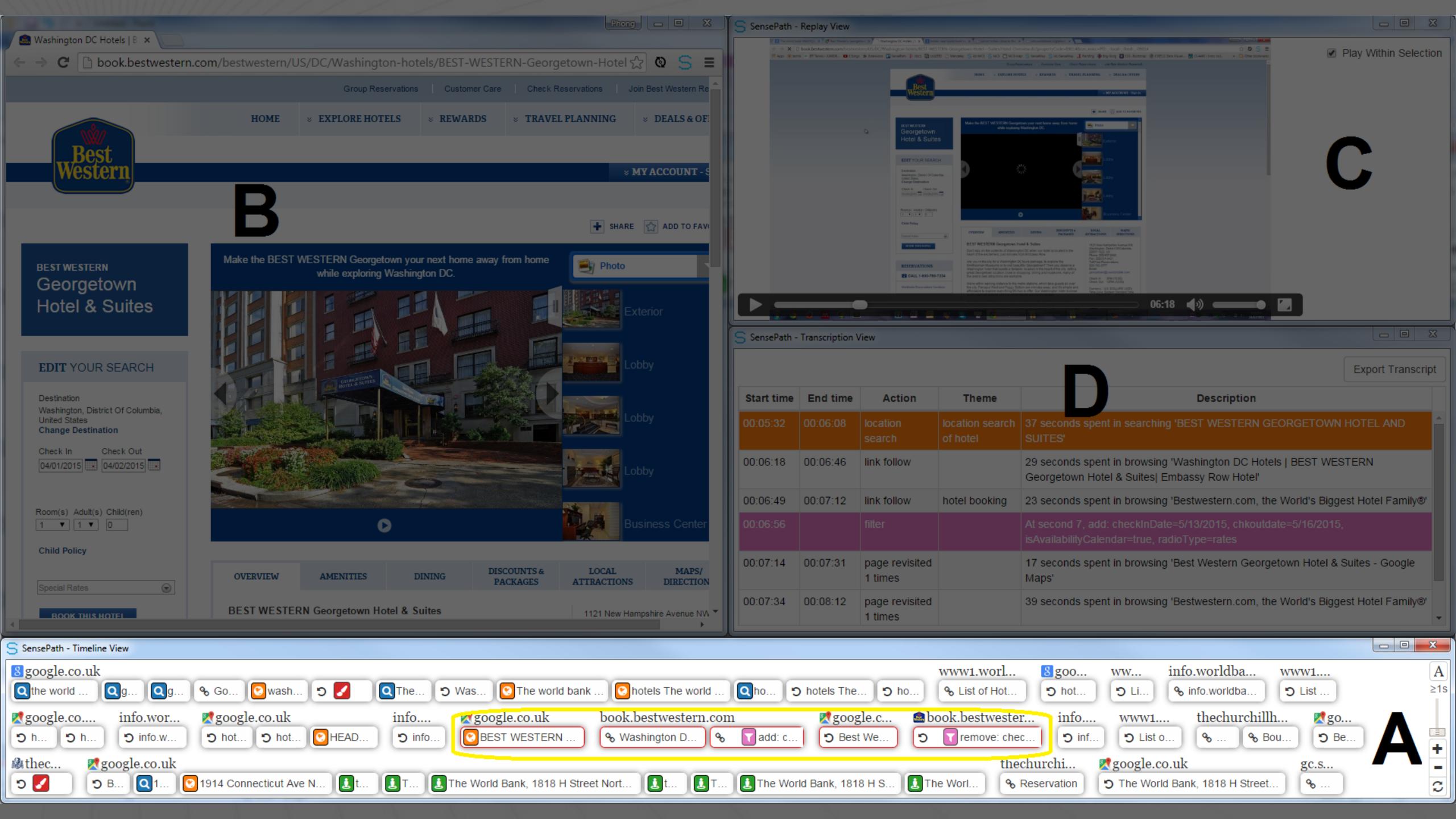
Capture Analytic Provenance

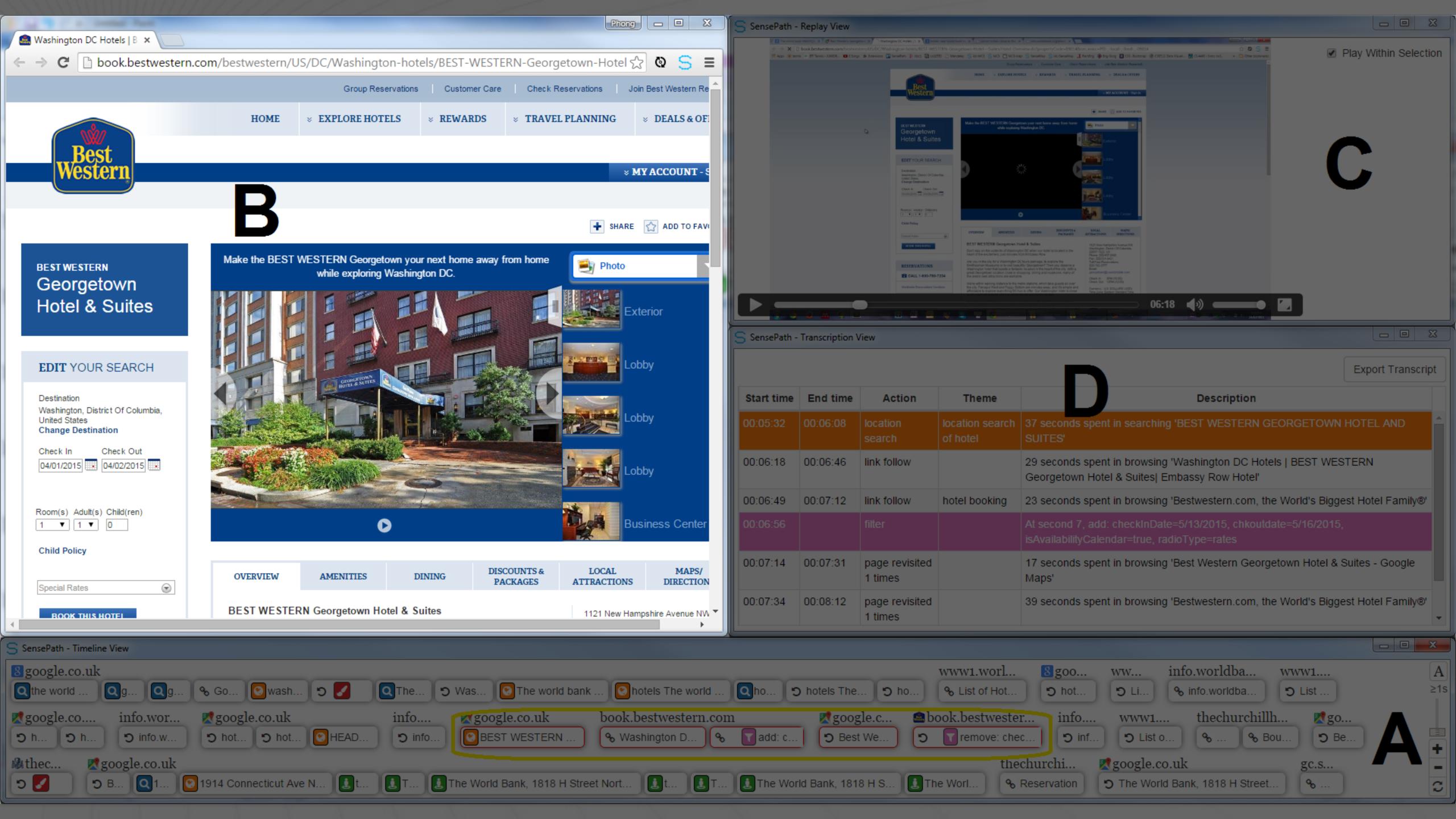


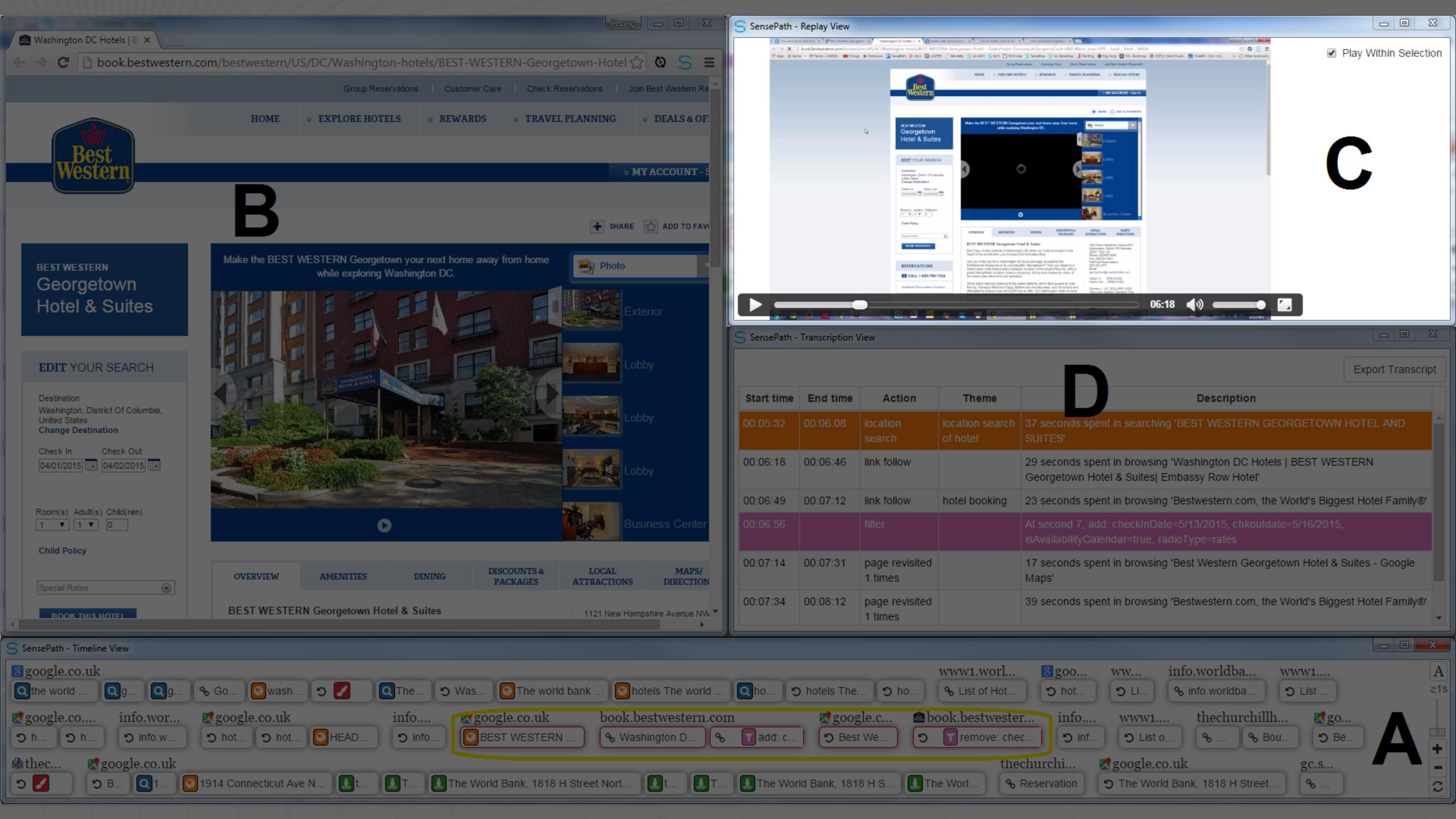


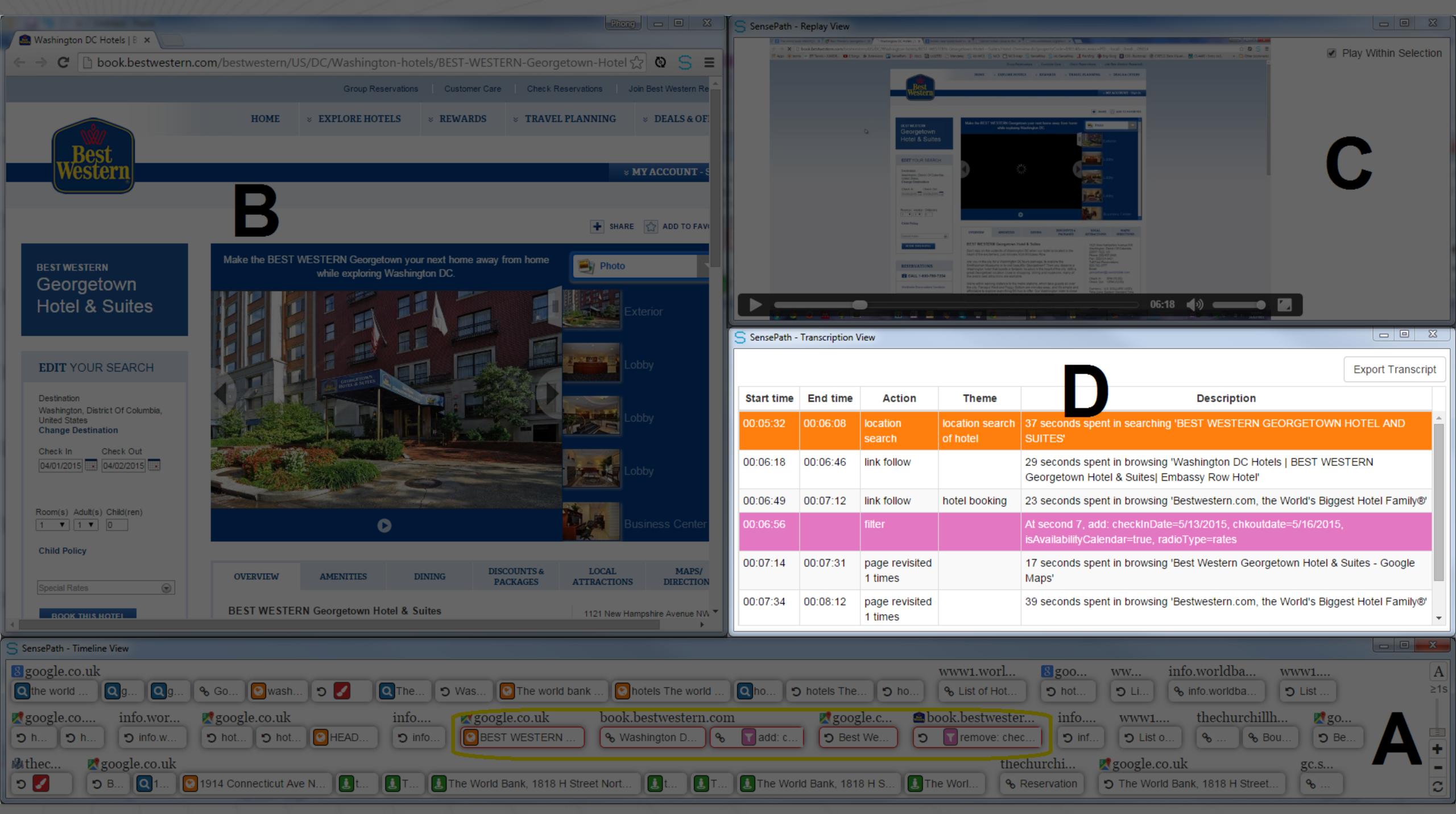












Evaluation

- Design
 - Dataset: capture of travel planning task
 - Participant: a 7-year experienced HCI researcher
 - Task: use SensePath to understand the user's sensemaking process
- Findings
 - reduced half the time
 - able to summarize steps, identify rough strategy
 - timeline: good overview, easy pattern detection
 - linked timeline + video: save plenty of time





Demo





Conclusion

- SensePath speeds up the transcription and coding processes
- SensePath integrates with qualitative analysis softwares
- A general approach potentially apply to other qualitative research fields



