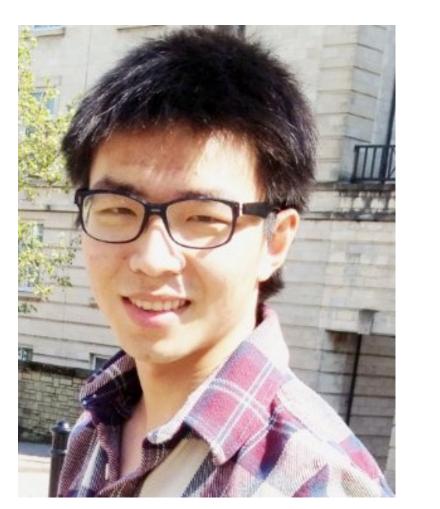
Studying Extended Session Histories

Chaoyu Ye Martin Porcheron Dr. Max L. Wilson psxcy1@nottingham.ac.uk me@mporcheron.com max.wilson@nottingham.ac.uk







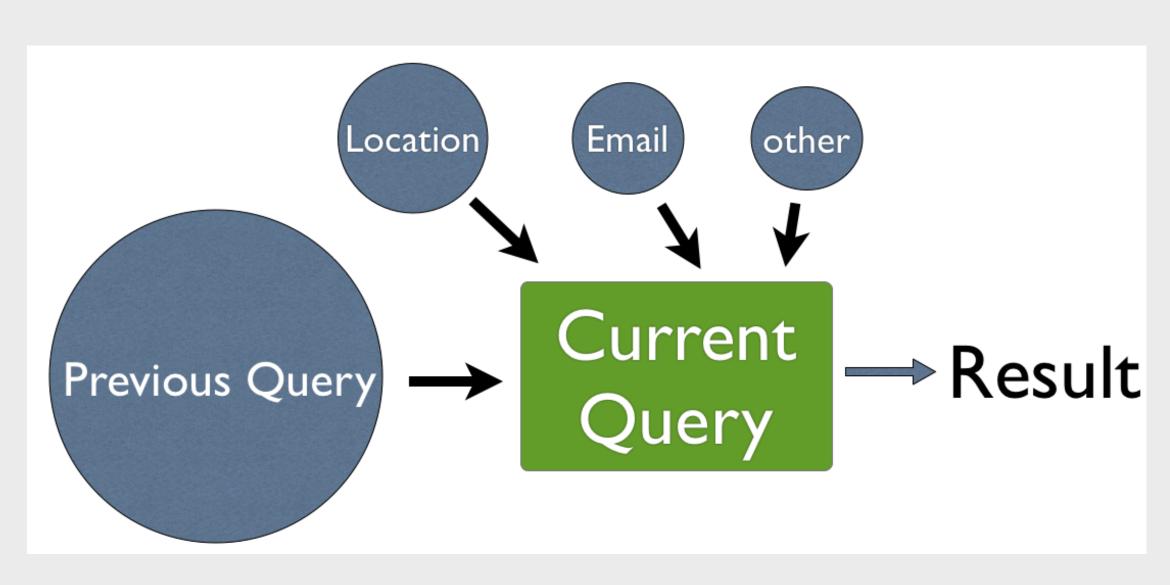


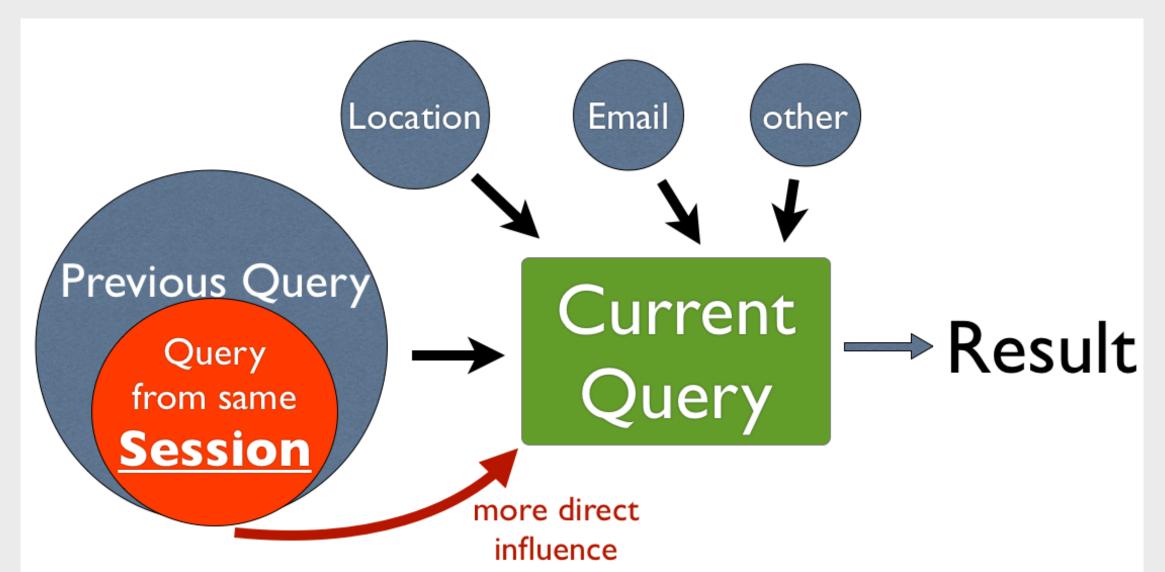


Mixed Reality Lab, University of Nottingham, UK



Motivation





Previous Session Research

- Cutoff Time (He and Goker, 2000; Catledge and Pitkow, 1995, Google)
- Query Context (Jansen et al. 2007)
- User Identification: IP and Cookie (Jansen et al. 2007)
- One Interaction as a Session (Spink et al. 2006)

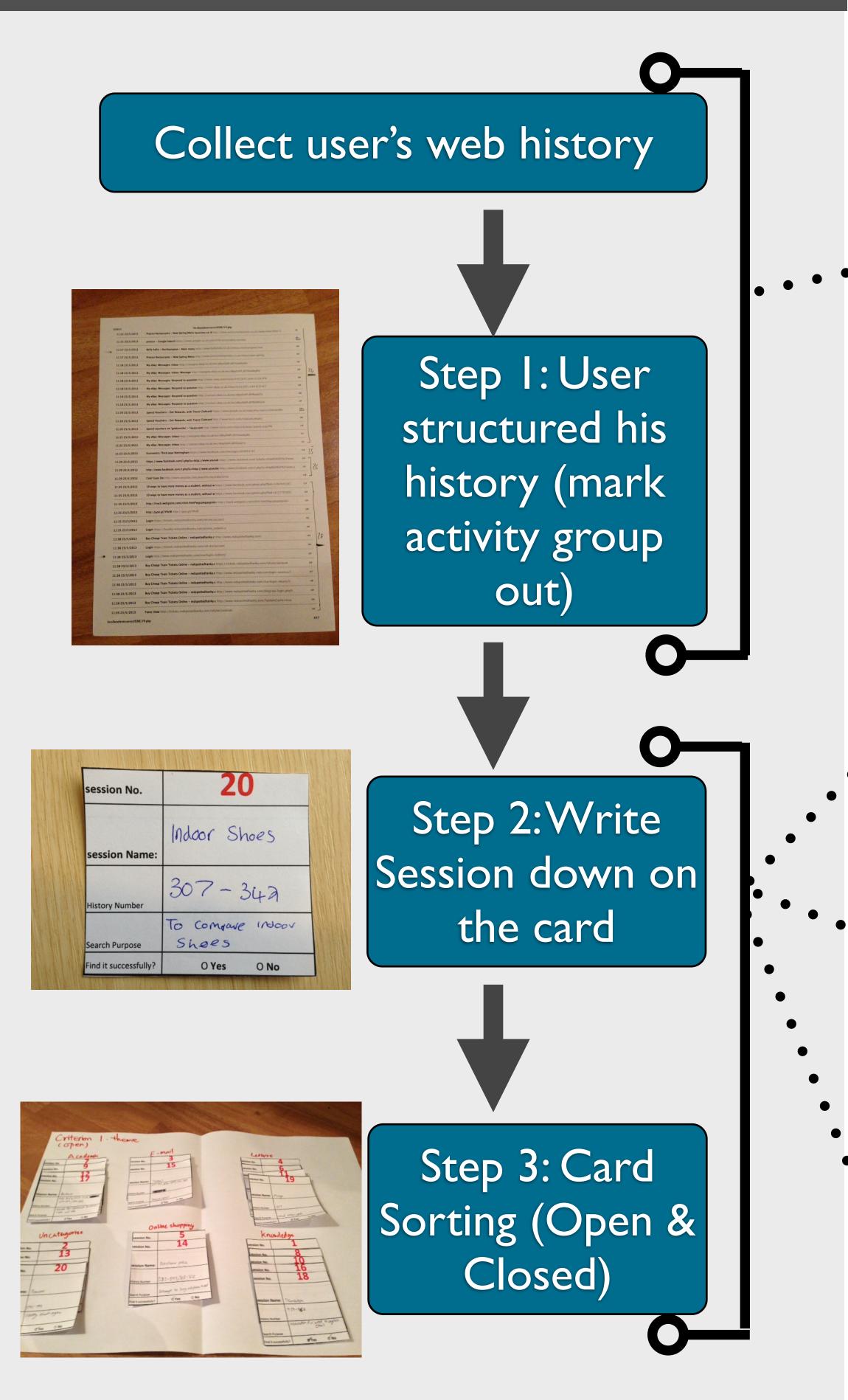
Objective

This paper investigates the web histories to explore extended sessions and provide better support to "search".

Reference

- L. D. Catledge and J. E. Pitkow. Characterizing browsing strategies in the World-Wide web. Computer Networks and ISDN Systems, 27(6): 1065–1073, 1995.
- D. He and A. Go ker. Detecting session boundaries from Web user logs. Methodology, pages 57–66, 2000.
- B. J. Jansen, A. Spink, C. Blakely, and S. Koshman. Defining a session on Web search engines. JASIST, 58(6):862–871, 2007.
- A. Spink, M. Park, B. J. Jansen, and J. Pedersen. Multitasking during Web search sessions. IP&M, 42(1):264–275, 2006.

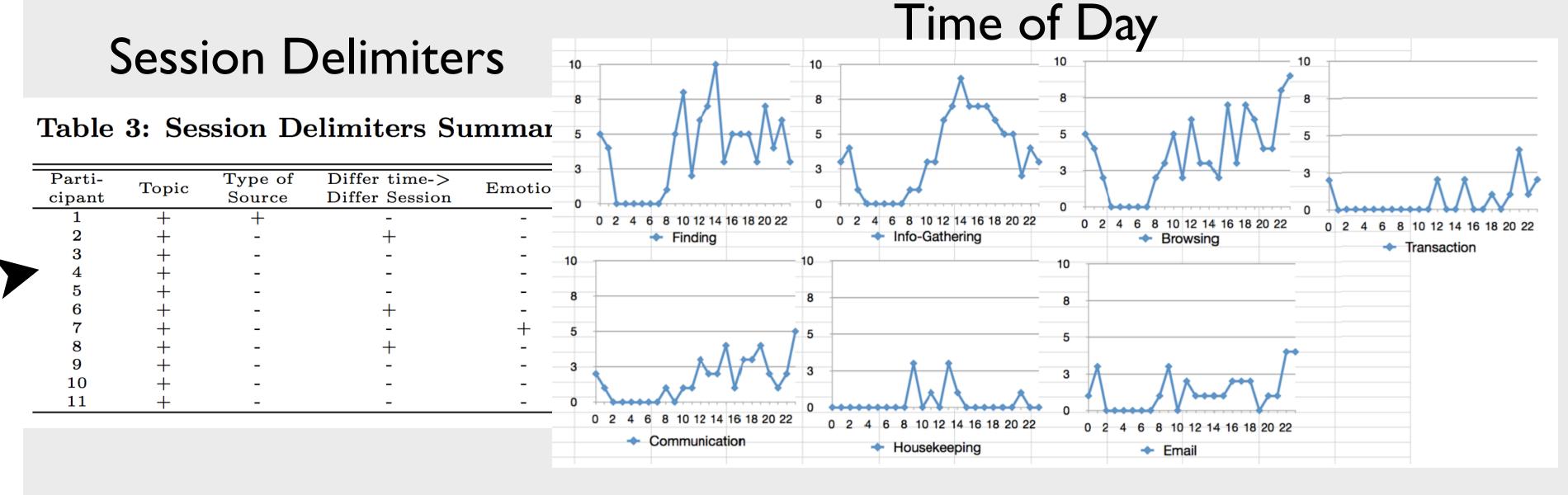
Experiment Design

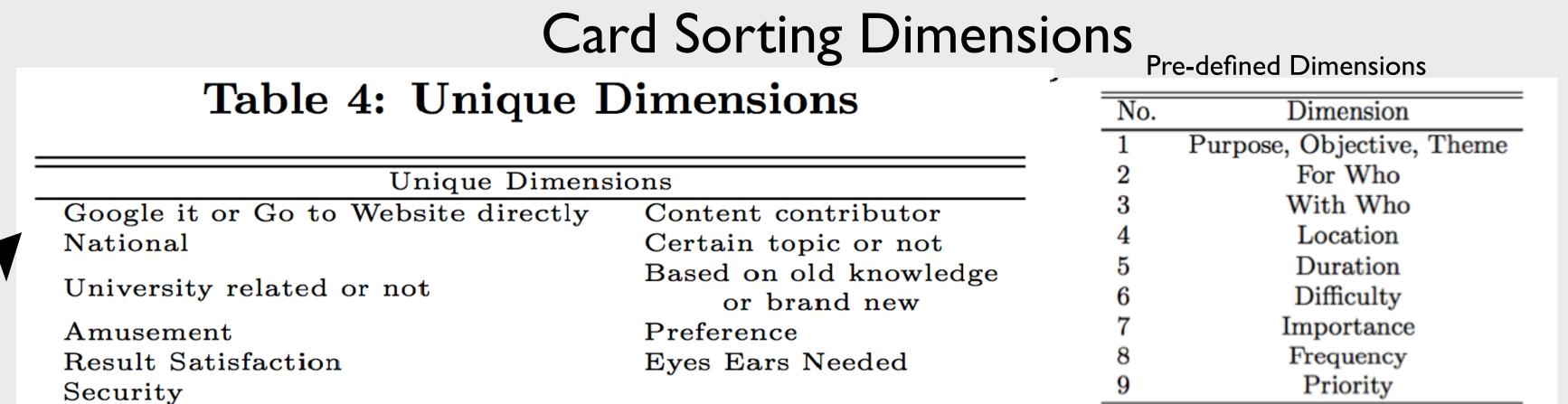


Findings

- Session Delimiters
- Most participants judged "long sessions" as being longer than 5 mins,
- Participants had inaccurate recollections of the length
- Long sessions were typically a mix of casual and serious leisure that often involved information gathering and browsing behaviour
- Some activities are related to certain times of the day.

Data Analysis





Duration Categories Table 5: Duration Categories

Group	Detail
	Sessions defined as Long
Defined Long	by Participant
Long	Session whose actual duration
	is $>= 5$ mins
Actual Long	Session defined as Long and it
	actual duration is $>=5$ mins
Over-estimated	Session defined as Long but it
	actual duration is less than 5
Defined Short	Session defined as Short
	by participant
Short	Session whose actual duration
	is less than 5 mins
Actual Short	Session defined as short and it
	actual duration is less than 5
Under-estimated	Session defined as Short but it
	actual duration is $>= 5$ mins

