

Context Aware Computing Applications

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Overview

- Begins to explore uses for context aware computing
- Purely location based
- Recognizes important goals
 - Surrounding people
 - Surrounding computing power
 - Primitives for applications such as FourSquare
 - Focuses on how interfaces should change with context

User Interface

- Auto-adjusting relevance of results based on location
- Being aware of who is around you
- Reminders
- Activities
- Filesystems
- Collaboration

Where do we stand today...?

“This user of proximate selection is helpful when ballots are carried out at particular locations – e.g., voting on what snacks to have at High Tea”

“Reminders pops up a message on the tab when different situations occur”

“The program monitors which users pass by and are in the vicinity and then shows information that they are interested in, e.g., the latest hockey scores.”

“In this way people in the same room can easily collaborate using the virtual white-board.”

Moving forward

NFC answers:

- To replace physical keys
- To replace physical credit cards
- Higher granularity and lower power cost for location awareness
- To replace QR codes that require a camera
- To replace me interacting with the object
- The object interacts with me

Social searching

- Using the people around you to search
- New in Google
- Emphasis on crowd-sourcing

Passively changing the world around me

- Automatically unlock my car
- Automatically adjust lighting in house from room to room