









CS 160, User Interface Design, Prototyping,, & Evaluation Professor Canny













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# Workload Results

So the elaborate variations on walking in the lab really did make the task harder for users. Their setups are quite easy to replicate (treadmills, walking obstacle courses). Other ways to recreate the outdoor experience?

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# Error Results Typing error rates were higher on difficult tasks (higher condition numbers), which is a warning against sitting tests. The task difficulty was also responsible for the higher number of cosmetic errors found in case 1.









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# Experience Sampling

### Method:

- System generates events at random times.
- These events trigger data capture on the mobile device. This could include:
  - \* Location or other sensor data (no user input)
  - \* A short question for the user, especially multiple choice.

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# Summary

- Laboratory evaluations of mobile systems can work quite well (but more data needed).
- You can simulate cognitive and physical effects of walking in the lab.
- Experience Sampling and Diary Studies are two methods that support true mobile evaluation.
- Elicitation diary studies are probably the most effective
- Annotated photo capture is the best media for an elicitation study. 2/22/2006

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