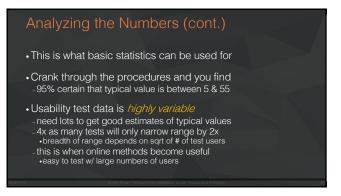
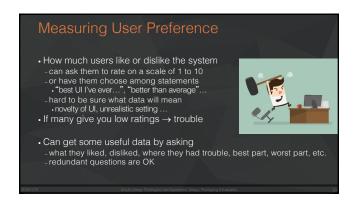
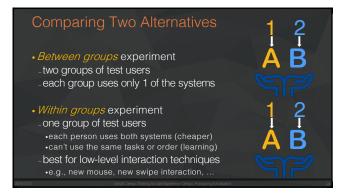


| | Web Us | ability Test Re | sults | | | |
|---------------|-------------------------------|-----------------|--------------------------|------|------|-----|
| Participant # | | Time (minu | ıtes) | | | |
| 1 | | 20 | , | | | |
| 2 | | 15 | | | | |
| 3 | | 40 | | | | |
| 4 | | 90 | | | | |
| 5 | | 10 | | | | |
| 6 | | 5 | | | | - 8 |
| nu | mber of participants | 6 | | | | |
| me | ean | 30.0 | | | | |
| | edian | 17.5 | | | | |
| ste | d dev | 31.8 | | | | _ |
| sta | andard error of the mean | = stddev / | sqrt (#samp | les) | 13.0 | _ |
| tyı | pical values will be mean +/- | 2*standard er | standard error> 4 to 56! | | | |







Comparing Two Alternatives

- Between groups requires many more participants than within groups
- See if differences are statistically significant -assumes normal distribution & same std. dev.
- •Online companies can do large AB tests
 -look at resulting behavior (e.g., buy?)

Instructions to Participants

- Describe the purpose of the evaluation _ "I'm testing the product; I'm not testing you"
- •Tell them they can quit at any time
- Demonstrate the equipment
- Explain how to think aloud
- Explain that you will not provide help
- Describe the task
 give written instructions
 one task at a time

Check if your friend has called, find out what time he will be going to the club.

Reporting the Results

•Report what you did & what happened



Heuristic Evaluation vs. User Testing

- •HE is much faster
- 1-2 hours each evaluator vs. days-weeks
- •HE doesn't require interpreting user's actions
- User testing is far more accurate (by def.)
 takes into account actual users and tasks
 HE may miss problems & find "false positives"
- Good to alternate between HE & user testing
 -find different problems
 -don't waste participants

Summary

- · User testing is important, but takes time/effort
- Use ????? tasks & ????? participants
 real tasks & representative participants
- $\bullet \ \mathsf{Be} \ \mathsf{ethical} \ \& \ \mathsf{treat} \ \mathsf{your} \ \mathsf{participants} \ \mathsf{well}$
- Want to know what people are doing & why? collect -process data
- Bottom line data requires ???? to get statistically reliable results more participants
- Difference between between & within groups?
 between groups: everyone participates in one condition
 within groups: everyone participates in multiple conditions

Further Reading on Ethical Issues With Community-based Research

- Children and Families "At Promise, Beth B. Swadener, Sally Lubeck, editors, SUNY Press, 1995, http://www.supypress.edu/p-2/22-children-and-families-at-promis-associations-at-promis-associations-at-pro
- "Yours is better!" Participant Response Bias in HCl, Proceedings of CHI 2012, by Nicola Dell, et al. http://research.microsoft.com/pubs/163718/CHI2012-Dell-ResponseBias-proc.pdf
- "Strangers at the Gate: Gaining Access, Building Rapport, and Co-Constructing Community-Based Research," Proceedings of CSCW 2015, by Christopher & Le Dantec & Srah Fox, bits 1/61 acres of CSCW 2015, 1748 cells 1/61.
- "Imperialist Tendencies" blog post by Jan Chipchase, http://ianchipchase.com/content/essays/imperialist-tendencies
- "To Hell with Good Intentions" by Ivan Illich, speech to the Conference on InterAmerican Student Projects (CIASP), April 20, 1968, http://www.swarai.org/illich_hell.htm.

