







Informed cons	ent
Give participants whether or n	s enough information to make an informed decision ot to participate in the study
Purpose: Procedures: Risks: Benefits: Anonymity: Compensation: Withdrawal: Approval:	What is the study for? What will they do and for how long? Should be 'none' Who benefits and how? How will their identity be kept secret? Often voluntary and unpaid User may withdraw at any time without a reason If it has undergone IRB review

Common sense when discussing user results
Protect people's privacy Don't put their data out on the web Don't make people look foolish No Youtube videos Educate the audience Tell them how to view errors Summarize results fairly Don't over-emphasize your favorite issue Don't change the intended use No post-hoc marketing

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	Ethics from different pe	rspectives
	Each profession has rules to pro but not always the same pers	tect someone on.
	Scientists protect u Journalists p Consultants c Corporations c	users / subjects bublic :lients corporation
	Institutional Review Board (IRB) designed to protect participar Primarily in medical studies, but also when using technolo	nts in experiments gy























Field experiments
Dan Russell (Google) creates huge controlled field experiments with a million subjects per condition
Example: Does the background color affect liklihood of buying? (Yes! 20% more with certain colors)
Obama's campaign: Send different ads to randomly selected people Follow up calls: Which work best and on whom?
Discovered Republican women who were affected by national healthcare proposal









Peer introspection exercise
Interview a colleague from the other topic:
What was the last [travel challenge] you experienced? What software did you use? Were you able to reuse anything from a previous trip?
Describe in detail, step-by-step, what you did. If possible, demonstrate usingthe system.
What problems did you experience?

Take notes!
Interviewers: Describe what happened, emphasize problems and surprises Summarize the key opportunities for design
Interviewees: Identify the three* most important problems Mail them to your interviewer
* You may add more if you like

Comments
Do not look for solutions yet Focus on identifying 3-5 key problems
Focus on the actual problem from the user's perspective not the tool or the platform
"Good" problems: Frustrate users Occur across platforms









Design a questionnaire
 What information are you seeking? Ask only what is necessary Frame the questions correctly Who is the audience? 50 - 1000 users or more? How will you send your survey? Most often with a survey web app But sometimes paper is better How will you analyze your results? Consider the statistical analysis first





Principles for designing questions
Use parallel structure for sentences
Keep the order coherent, e.g. positive to negative
Zero can mean two things: neutral, middle response or ''I do not know''
Consider adding a degree of confidence Avoid asking 'obvious' questions
Ask the same question in two different ways to see if you get the same result

One more reminder
Directed, specific questions are easist to code belong at the beginning of the questionnaire provide the fewest interesting results
Open, general questions are very difficult to code and analyze may provide very interesting responses but also risk giving stereotypical responses

Design vs. Marketing questionnaires Designers need facts to inform the design examples of problems, stories about events, data about use Marketing wants opinions what people like and do not like, what they think they want Emphasize facts first, then opinions Directed questions (specific or open-ended) often elicit facts General questions (specific or open-ended) often lead to opinions











Participatory Design

Techniques include regular and video brainstorming, developing scenarios, paper prototyping and video prototyping





Why participatory design?
Asking users \neq letting them show you
It is hard to figure out what the user experiences especially if you are not one of your own users.
Your instincts are not enough and often wrong and get worse as you delve deeper into the design.
You will understand the system more but the user less.



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Examples:

General Motors executives thought GM quality was great. Every morning, their cars went to the shop Experts tuned them, cars rarely broke down

BUT GM customers had a very different experience No daily tune-ups – poor reliability

Executives had no clue about what was wrong

Examples:

California Department of Motor Vehicles was very, very slow Executives skipped the lines All other drivers forced to wait with regular customers

Innovation: New DMV head made everyone wait in same lines Result: Many innovations and reduced lines

Your design instincts are not good if you do not have the same experience

Create environments where users expose their real experiences and you gain design intuitions about them





On Monday:

Based on your user information:

- identify the user profile and 3 personas (1 extreme)
- create a user scenario with 8-10 interaction points
- design concept (first draft)