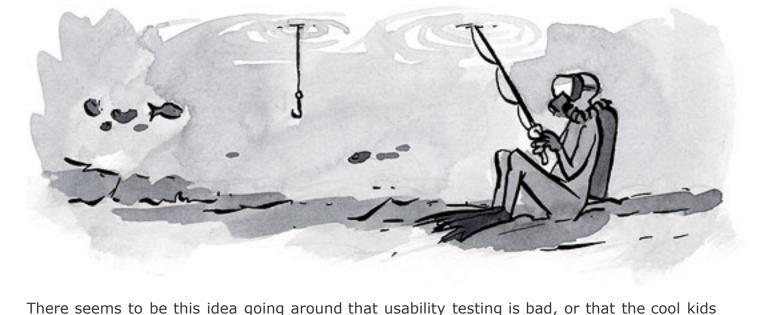
MAKE WEBSITES

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Usability Testing Demystified by DANA CHISNELL

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usability testing is the hottest thing in experience design research? Every time a person has a great experience with a website, a web app, a gadget, or a service, it's because a design team made excellent decisions about both design and implementation—decisions based on data about how people use designs. And how can you get that data? Usability testing. Jared Spool will tell you for free that when his company researched the causes of failed designs, they found that lack of information was the root of all bad design decisions. The point

don't do it. That it's old skool. That designers don't need to do it. What if I told you that

as opposed to using other methods? I contend that 80% of the value of testing comes from the magic of observing and listening as people use a design. The things you see and the things you hear are often surprising, illuminating, and unpredictable. This unpredictability is tough to capture in any other way. The other 20% of the value comes from the pre-testing discussions team members have as they decide what their Big Questions are and the post-testing discussions about what to do with what they've learned.

of user research is to make good, solid, confident decisions about design. Why usability testing

One test doesn't fit all When I say "usability test," you may imagine something that looks like a psych experiment: The "Subject" is in one room, with a stack of task cards and may even have biometric sensors

attached. The "Researcher" is in another room, madly logging data and giving instruction over

an intercom as the voice of god. That image of a usability test is what I'd call "formal usability testing," and is probably going to be summative and validating. It's a way to verify whether the design does what you want it to do and works the way you want it to work.

and I think most of you are interested in—is how to explore and evaluate in the early and middle stages of a design. THE CLASSIC PROCESS

The process that Jeff Rubin and I present in the Handbook of Usability Testing, Second Edition

could be used for a formal usability test, but it could also be used for less formal tests that

can help you explore ideas and form concepts and designs. The steps are basically the same

This is often the kind of test done toward the end of a design cycle. What I'm interested in—

for either kind of test: Develop a test plan

Prepare test materials

Conduct the sessions

Choose a testing environment

Find and select participants

- Debrief with participants and observers Analyze data and observations
- Create findings and recommendations

DEVELOP A TEST PLAN

- Let's walk through each of these steps.
- Sit down with the team and agree on a test objective (something besides "determine whether users can use it"), the questions you'll use, and characteristics of the people who will be trying

out the design. (We call them participants, not subjects.) The plan also usually includes the methods and measures you'll use to learn the answers to your research questions. It's entirely

possible to complete this discussion in under an hour. Write everything down and pick someone from the team to moderate the test sessions.

CHOOSE A TESTING ENVIRONMENT Will you use a lab? If not, what's the setup? Will you record the sessions? Again, the team should decide these things together. It's good to include these logistics in the test plan. FIND AND SELECT PARTICIPANTS Focusing on the behavior you're interested in observing is easier than trying to select for

market segmentation or demographics. If you're testing a web conferencing service, you want people who hold remote meetings. If you're testing a hotel reservation process on a web site,

into and out of education programs, you want people who are attending those programs. Make

you want people who do their own bookings. If you want to test a kiosk for checking people

sense? Don't make recruiting harder than it has to be.

PREPARE TEST MATERIALS You're going to want some kind of guide or checklist to make sure that the moderator addresses all of the research questions. This doesn't mean asking the research questions of the participants; it means translating the research questions into task scenarios that represent realistic user goals.

In the test materials, include any specific interview questions you might want to ask, prompts

for follow-up questions, as well as closing, debriefing questions that you want to ask each

collected. Though only one person from the team moderates, as many people from the team as possible

should observe usability test sessions. If you're going to do multiple individual sessions, each

At the end of each session, be sure to take a step back with the participant and ask, "How'd that qo?" Also, invite the trained observers to pass follow-up questions to the moderator or to

The moderator is the master of ceremonies during each session. This person sees to the safety

and comfort of the participants, manages the team members observing, and handles the data

team member should watch at least two sessions. **DEBRIEF WITH PARTICIPANTS AND OBSERVERS**

CONDUCT THE SESSIONS

participant.

ask questions themselves. Thank the participant, compensate him or her, and say good-bye. Now, the team observing should talk briefly about what they saw and what they heard. (This discussion is not about solving design problems, yet.)

examine why particular things happened. From that examination, you can can develop theories about the causes of frustrations and problems. After you generate these theories, team members can use their expertise to determine how to fix design problems. Then, you can

What you know at the end of a usability test is what you observed: What your team saw and

heard. When you look at those observations together, the weight of evidence helps you

WHAT YOU GET If you follow this process in a linear way, you'll end up with thorough planning, solid controls,

implement changes and test your theories in another usability test.

ANALYZE DATA AND WRITE UP FINDINGS

can feel like a big deal, and sometimes it should be. But most real-world usability tests need to be lighter and faster. Some of the best user experience teams do only a few hours of testing every month or so, and they may not even think of it as "usability testing." They're "getting input" or "gathering feedback."

Whatever. As long as it involves observing real people using your design, it's usability testing.

Really, all you need for a usability test is someone who is a user of your design (or who acts like a user), something to test (a design in any state of completion), and someplace

heaps of data, rigorous analysis, and—finally—results. (As well as a lot of documentation.) It

remote, depending on the state of the design. You can do all that fancy lab stuff, but you don't have to. Once you get into a rhythm of doing user research and usability testing, you'll learn shortcuts

and boil the process down to a few steps that work for you. When we get down to the

essential steps in the usability testing process, this is what it tends to look like:

where the user and the design can meet and you can observe. Someplace can even be

DEVELOP A TEST PLAN In the classic process, a usability test plan can be several pages long. Teams in the swing of doing testing all the time can work with a minimalist structure with one or two lines on the

Someone, something, someplace

elements of the plan. FIND PARTICIPANTS Again, this is about behavior. The behavior you're interested in for the study is parents going through the process of getting their kids into college. Just make sure you:

Remember they're human Compensate lavishly

CONDUCT THE SESSIONS

Learn and be flexible

Know your users

Allow enough time

as an objective exercise. Remember that this is not about teaching the participant how to use the interface. Give a task

session, show them the correct way to do the task with the current design after you've

did. Make some changes and start the cycle again.

comes from some kind of usability testing.

Debrief with observers and come to consensus about design direction Talk. Brainstorm. Agree. Unless the design was perfect going into the usability test (and that's a rare thing) and even if the team has only done one or two sessions, use the observations

you made to come up with theories about why things happened for participants the way they

If you're the moderator, do your best to be impartial and unbiased. Just be present and see

what happens. Even the designer can be the moderator so you can step back and see the test

Getting input from users is great; knowing their requirements is important. Feedback from call

Where do great experience designs come from? Observing

centers and people doing support is also helpful in creating and improving designs. Whatever your team might call it—usability testing, design testing, getting feedback—the most effective input for informed design decisions is data about the **behavior and performance** of people using a design to reach their own goals.

If you're interested in seeing examples and templates for test plans, recruitment, and session scripts, you can download them for free from the website that accompanies the Handbook of

Translations Belorussian (pc.de)

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Snapshot User research helps you

make good, solid, confident decisions about design. The good news is that it doesn't need to be complicated.

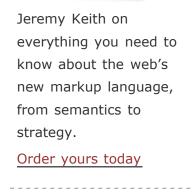


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Dana has helped hundreds of people make better design decisions by giving them the skills to gain knowledge about users. She's the co-author, with Jeff Rubin, of Handbook of Usability Testing, Second Edition (Wiley, 2008).

FROM PIXELS TO PROSE, CODING TO CONTENT

that realistically represents a user goal and let the rest happen. Just listen and watch. (Of coure, if the task is something people are doing in real life and they're having trouble in the collected your data.) As the session goes on, ask open-ended questions: Why? How? What?

users

Teams that have lots of data make better design decisions. Nine times out of ten, that data

Usability Testing, Second Edition: www.wiley.com/go/usabilitytesting.

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