HIGH-QUALITY. IMPACTFUL, FAST UX RESEARCH FOR ENGINEERS TOMER SHARON, UX RESEARCHER, GOOGLE



HIGH-QUALITY, IMPACTFUL, FAST UX RESEARCH FOR ENGINEERS

- Psychology of attitude & behavior
- 1. High-quality noticeability test
- 2. Impactful A/B usability study
- 3. Fast, colorful collaboration tool

WHAT'S A HIGH-QUALITY, FAST, & INPACTEULUX **RESEARCH?**







DON'T LISTEN TO USERS BECAUSE OF THE PSYCHOLOGY OF **ATTIUDE & BEHAVIOR**

STRONG RELATIONSHIP BETWEEN ATTUDE AND BEHAVIOR



SOLDIER POSITIONS ON WAR PREDICTED THEIR QUALITY OF FIGHTING [STOUFFER, 1949]

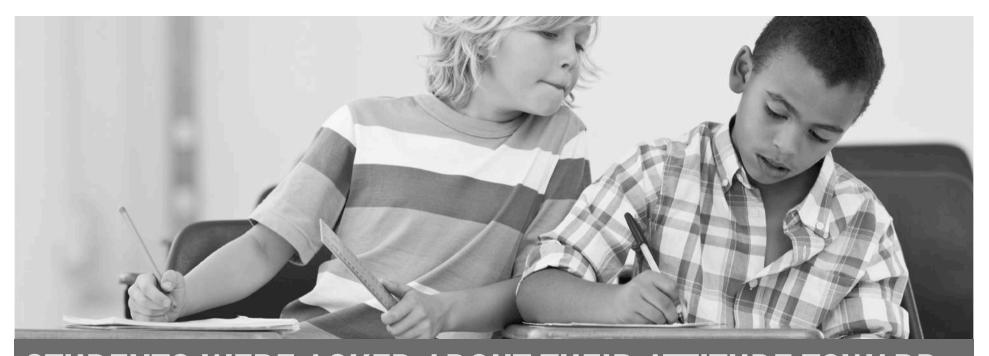


PEOPLE'S ATTITUDE TOWARD A CERTAIN CAR MODEL PREDICTED ITS SALES [BOGART, 1967]

STRUNG RELATIONSHIP BETWEEN ATTUDE **N REHAVI** D



A CHINESE COUPLE VISITED 250 RESTAURANTS & HOTELS IN THE US AND GOT ONE REFUSAL TO BE SERVICED. A LETTER SENT TO THE SAME BUSINESSES ASKING IF THEY WOULD SERVE CHINESE CUSTOMERS GOT A REFUSAL FROM 92%. [LAPIERRE, 1934]



STUDENTS WERE ASKED ABOUT THEIR ATTITUDE TOWARD CHEATING. A FEW WEEKS LATER, THEY WERE ASKED TO GRADE THEIR OWN TESTS. THERE WAS CLOSE TO ZERO CORRELATION BETWEEN ATTITUDE TOWARD CHEATING AND ACTUAL CHEATING. [COREY, 1937]

In a recent UK-wide study, 99% of people interviewed at motorway service stations toilets claimed they had washed their hands after going to the toilet. Electronic recording devices revealed only 32% of men and 64% of women actually did.

MANY STUDIES FOUND NO RELATIONSHIP **BETWEEN ATTITUDE** AND BEHAVIOR

SOCIAL PSYCHOLOGISTS STARTED ASKING WHAT AFFECTS THE RELATIONSHIP BETWEEN ATTIUDE & BEHAVIOR





ATTITUDE-BEHAVIOR RELATIONSHIP LEVEL OF MEASURMENT

1ST PRINCIPLE A GENERAL ATTITUDE FORMS A GOOD BASIS FOR PREDICTING A WIDE SET OF BEHAVIORS

GENERAL ATTITUDE TO WHAT EXTENT DO YOU CONSIDER YOURSELF A 'SOCIAL ANIMAL'?

SPECIFIC BEHAVIOR NUMBER OF FRINEDS. LIKES, COMMENTS. AND SHARES ON FACEBOOK

2ND PRINCIPLE **A SPECIFIC & UNIQUE ATTITUDE MIGHT PREDICT A SPECIFIC & UNIQUE BEHAVIOR**



GENERAL & SPECIFIC ATTITUDES OF MARRIED WOMEN TOWARD USING THE PILL [DAVIDSON & JACCARD, 1979]

CORRELATION ATTITUDE **USING BIRTH CONTROL** 0.08 THE PILL AS A BIRTH CONTROL 0.32**USING THE PILL AS A BIRTH CONTROL** 0.53**USING THE PILL AS A BIRTH CONTROL IN THE** 0.57 **NEXT 2 YEARS**

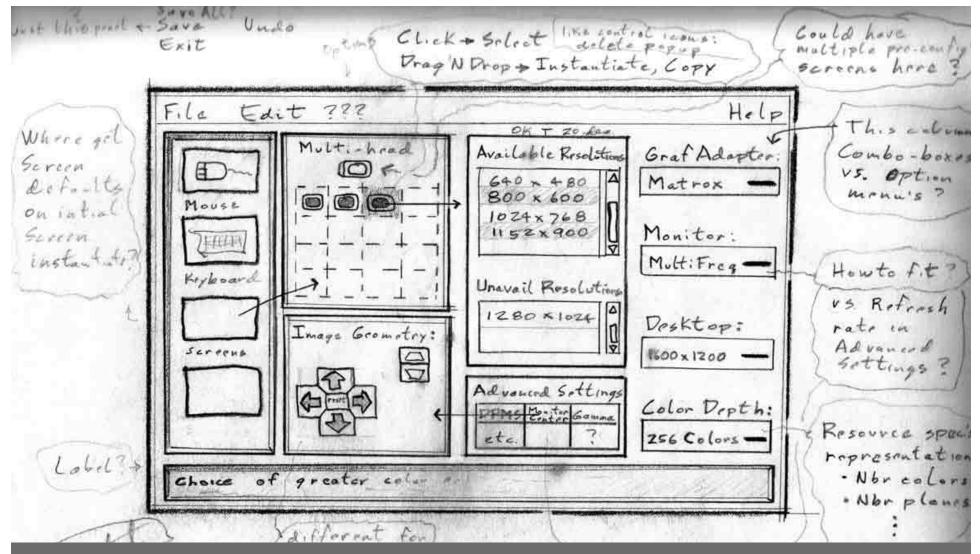




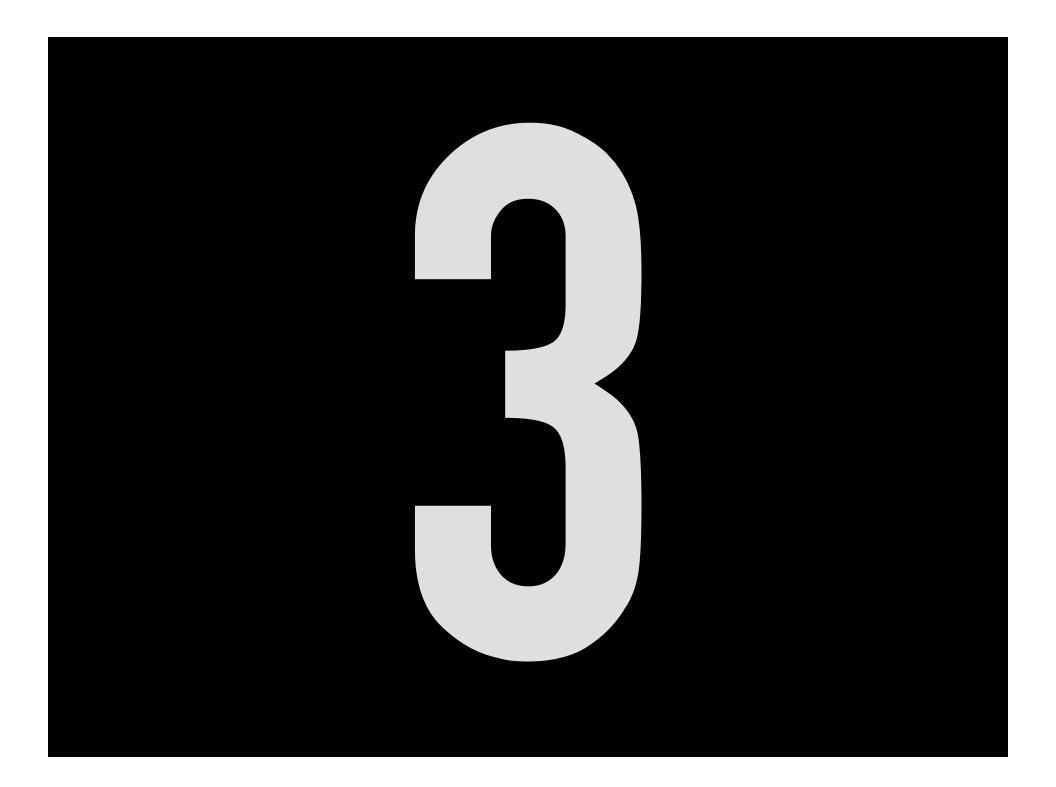
TIME BETWEENSHIP TIME BETWEENS MEASURMENTS

PRINCIPLE **POSITIVE CORRELATION BETWEEN ATTITUDE & BEHAVIOR INCREASES IF MEASUREMENT TIME-**DIFFERENCE IS SHORTER

REASON **BECAUSE PEOPLE'S** ATTIUDES ARE NOT STABLE AND CHANGE OVER TIME



HOW MANY TIMES DID A USER DRAW A SCREEN THEY WANT, ONLY TO REJECT IT 3 MONTHS AFTER IT? [AFTER YOU COMPLETED CODING THE DAMN THING]



ATTITUDE-BEHAVIOR RELATIONSHIP WAY OF ACQUIRING ATTITUDE ATTITUDE



JOEY, 10-YEARS-OLD, WANTS A VIDEO GAME HE PLAYED AT A FRIEND'S HOUSE; HIS FRIEND MARK HEARD ABOUT THIS GAME FROM JOEY; THEIR FRIEND ANDY SAW A COMMERCIAL FOR THAT GAME. WHO IS MORE LIKELY TO NAG THEIR PARENTS TO BUY THE GAME?

PRINCIPLE PAST EXPERIENCE **CLARIFIES ATTITUDE** AND INCREASES ITS **POSITIVE CORRELATION** WITH BEHAVIOR

APPLICATION 1 TO UX IN USABILITY TESTING, **ASK ABOUT OPINIONS ONLY AFTER USERS ACTUALLY EXPERIENCE** THE PRODUCT

APPLICATION 2 TO UX ASK ABOUT PAST **EXPERIENCES RATHER** THAN PREDICTIONS **OF THE FUTURE**



ATTITUDE-BEHAVIOR RELATIONSHIP CLARITY OF ATTITUDE

PRINCIPLE HIGH, POSITIVE **CORRELATION BETWEEN ATTITUDE & BEHAVIOR INCREASES WHEN** ATTITUDE IS CLEARER



STUDENTS PARTICIPATED IN ELECTION IF THEY HAD MORE INFORMATION ABOUT CANDIDATES COMPARED TO STUDENTS WHO WERE NOT VERY UP-TO-DATE WITH CANDIDATE INFORMATION. [DAVIDSON ET AL, 1985]



RESEARCHERS MEASURED PREGNANT WOMEN'S ATTITUDES TOWARD BREASTFEEDING, THEN MEASURED WHO OF THEM BREASTFED. A STRONGER CORRELATION BETWEEN ATTITUDE & BEHAVIOR WAS FOUND AMONG WOMEN WHO GAVE BIRTH BEFORE. [MANSTEAD, PROFFITT & SMART, 1983]



ATTITUDE-BEHAVIOR RELATIONSHIP ACCESSIBILITY OF **ATTUDE TO** CONSCIENCE

PRINCIPLE **CONSCIENCE-**ACCESSBLE ATTUDE BETTER PREDICTS BEHAVIOR



COMPUTER GEEKS SPEND A LOT OF TIME THINKING ABOUT THEIR OWN COMPUTER SOFTWARE PREFERENCES. PEOPLE'S ATTITUDES BETTER PREDICT BEHAVIOR WHEN THEY ARE ASKED OR HEAR ABOUT THEM REPEATEDLY. [POWELL & FAZIO, 1984, BORGIDA & CAMPBELL, 1982]



ATTITUDE-BEHAVIOR RELATIONSHIP PERSONALITY

PRINCIPLE PEOPLE WITH HIGH SELF MONITORING DO NOT DEMONSTRATE **CONSISTENCY OF ATTIUDE & BEHAVIOR**

PEOPLE CONCERNED WITH THEIR EXPRESSIVE SELF-PRESENTATION TEND TO **CLOSELY MONITOR** THEMSELVES TO ENSURE DESIRED PUBLIC APPEARANCES

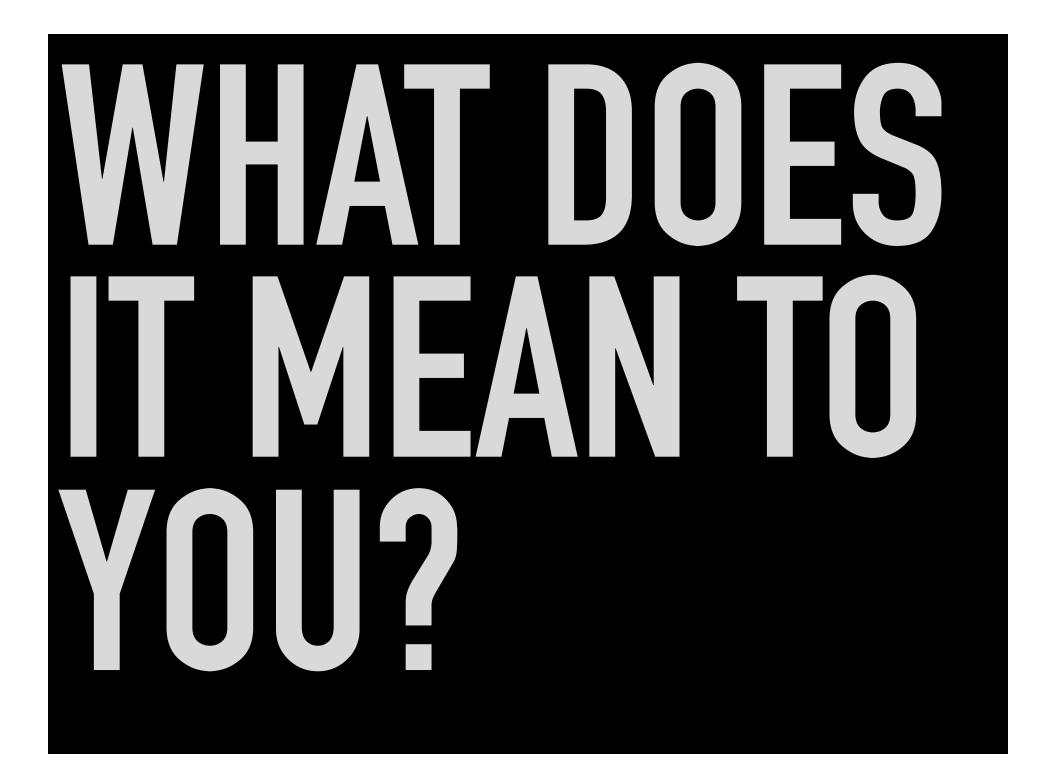


IT IS HARD TO PREDICT BEHAVIOR BASED ON ATTITUDE OF PEOPLE WITH HIGH SELF-MONITORING SCORES. [SNYDER, 1974, 1979]

THIS IS WHY YOU SEE SOME PEOPLE MISERABLY FAILING TO COMPLETE TASKS IN A USABILITY TEST YET ARE 'EXTREMELY SATISFIED'

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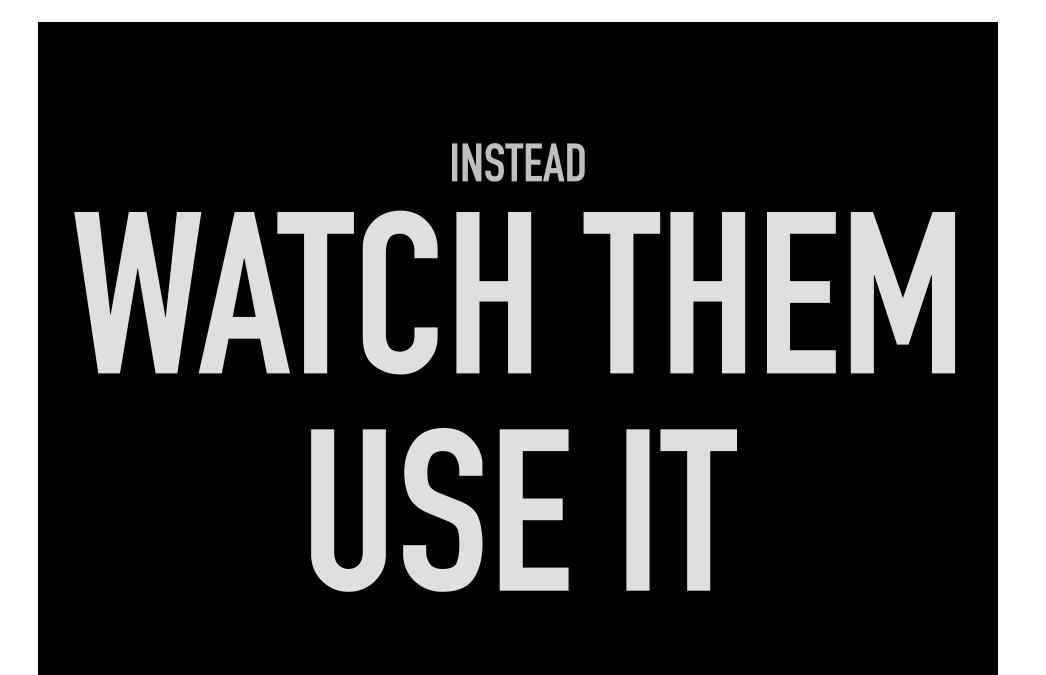
- I find it hard to imitate the behavior of other people.
- My behavior is usually an expression of my true inner feelings, attitudes, and beliefs.
- At parties and social gatherings, I do not attempt to do or say things that others will like.
- I can only argue for ideas I already believe.
- I can make impromptu speeches even on topics about which I have almost no information.
- I guess I put on a show to impress or entertain people.
- When I am uncertain how to act in a social situation, I look to the behavior of others for cues.
- I would probably make a good actor.
- I rarely need the advice of my friends to choose movies, books, or music.
- I sometimes appear to others to be experiencing deeper emotions than I actually am.
- 11. I laugh more when I watch a comedy with others than when alone.
- In a group of people I am rarely the center of attention.
- 13. In different situations and with different people, I often act like very different persons.
- I am not particularly good at making other people like me.
- 15. Even if I am not enjoying myself, I often pretend to be having a good time.
- 16. I'm not always the person I appear to be.
- 17. I would not change my opinions (or the way I do things) in order to please someone else or win their favor.
- 18. I have considered being an entertainer.
- In order to get along and be liked, I tend to be what people expect me to be rather than anything else.
- 20. I have never been good at games like charades or improvisational acting.
- 21. I have trouble changing my behavior to suit different people and different situations.
- At a party, I let others keep the jokes and stories going.
- 23. I feel a bit awkward in company and do not show up quite so well as I should.
 - ____24. I can look anyone in the eye and tell a lie with a straight face (if for a right end).
 - 25. I may deceive people by being friendly when I really dislike them.



DON'T

INSTEAD

DON'T ASK WHAT S THER FEDBACK



HIGH-QUALITY

ONLY AN EYE TRACKER CAN TELL IF USERS NOTICE STUFF

EVERGERS ARENOT VIND READERS

EYE TRACKERS ONLY TELL YOU WHERE PEOPLE LOOK, NOT WHAT THEY NOTICE

NOTICEABILITY TEST

NOTICEABILITY TEST A RESEARCH TECHNIQUE FOR LEARNING WHETHER PEOPLE **NOTICE KEY ELEMENTS** IN YOUR DESIGN

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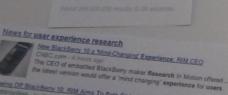
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Molly M. Stevens : User Experience Researcher in northern New ...

Currently I work full-time for Google as the leader of the Ads User Research team in the New York, NY office. I am a user experience practitioner with a focus on ...

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Short (0-4 min.) Medium (4-20

Long (20+ min.)

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Past 24 hours Past week

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experiences during interaction: designing affective interaction and evaluating ...

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E parts

When to Use Which User Experience Research Methods (Alertbox)

Not be 2008. User experience research methods can answer a wide range of puestions. Know when to use each method by mapping them to 3 key

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couple of years ago resurrected my consideration of whether "user ...

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Research, knowledge, experience Maximize your site's potential

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professional usability insight on their user experience design solutions at any ...

Molly M. Stevens : User Experience Researcher in northern New ...

New York. NY office. I am a user experience practitioner with a focus on ...

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depend on technology take the guesswork out of delivering great ...

RESULT YOU GET A CRYSTAL-CLEAR ANSWER

HOW TO **PRINT SCREEN CUT ELEMENTS & NON-ELEMENTS** MIX PREP BLANK PAPER & SCISSORS, **SHARPIE AND TAPE ONE KIT PER USER**

HOW TO AFTER USERS COMPLETE A TASK ASK THEM TO RE-ASSEMBLE THE KEY SCREEN. SHUT UP. & WATCH WHAT HAPPENS

ANALYSIS DID THEY PUT KEY **ELEMENTS IN PLACE?** DID THEY LEAVE OUT WHAT **DOESN'T BELONG? DID THEY DRAW ELEMENTS THAT WEREN'T THERE?**

IMPACTFUL

B USABILTY STUDY*

LOOP11 (www.loop11.com/startups)

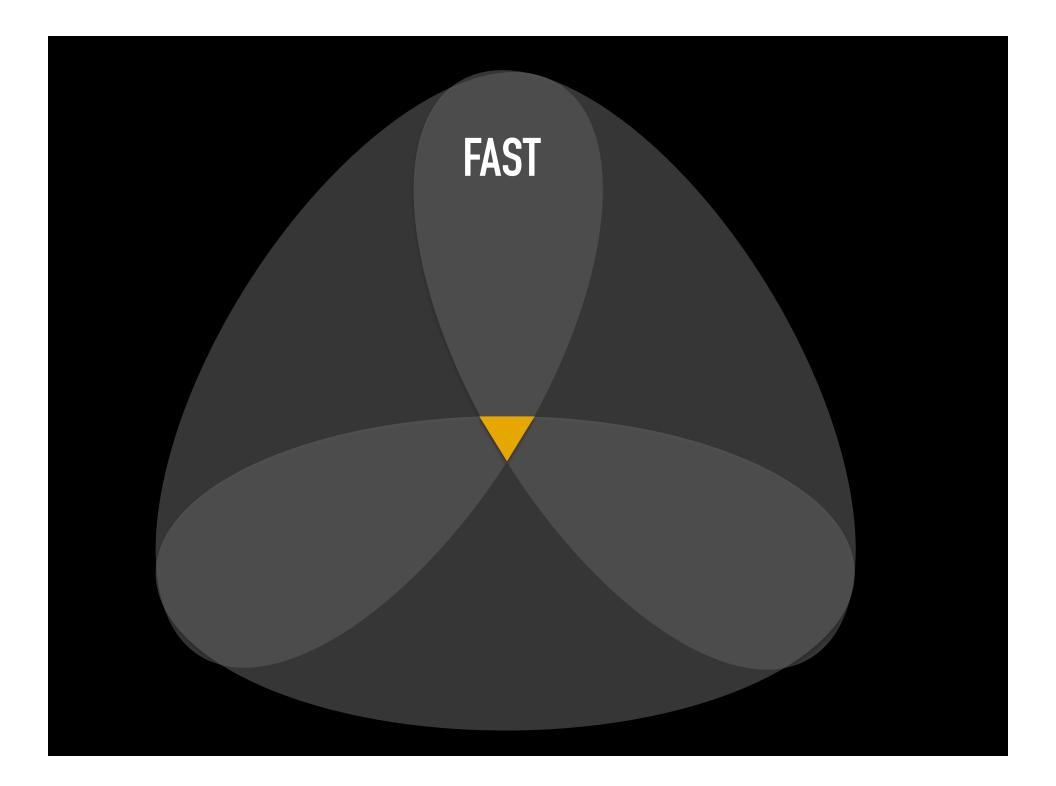
*THE BIG LIMITATION OF A STANDALONE ABTEST IS THAT IT ONLY TELLS YOU WHAT NOT WHY

A/B USABILITY TEST AN ONLINE RESEARCH TECHNIQUE DURING WHICH USERS ARE ASKED TO COMPLETE TASKS WHILE UX METRICS ARE COLLECTED **BEHIND THE SCENES**

RESULTS THINGS TO KEEP **OPPORTUNITIES FOR** IMPROVEMENT **COMPERATIVE DATA ABOUT** SPEED, SUCCESS. & SATISFACTION

TASK EXAMPLE IMAGINE YOU ARE PLANNING **A VACATION IN BORA BORA** BETWEEN MAY 10 AND 20. 2013, WITH YOUR SPOUSE. **USE UNITED.COM TO BOOK** YOUR FLIGHTS.

WHY IS IT IMPACTFUL?



COLLABORATION

THE RAINBOW Spreadsheet

THE RAINBOW SPREADSHEET **A SPREADSHEET WITH** WHICH DATA COLLECTED DURING A UX STUDY IS **CENTRALLY DOCUMENTED COLLABORATIVELY BY A** TEAM

THE SPREADSHEET SERVES **AS THE CENTERPIECE FOR** LESSONS LEARNED FROM **A STUDY AND LATER TURNS** INTO THE FINAL REPORT

The rainbow spreadsheet	(sample) 🕁 🖿
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Tomer	Sharon	Ŧ
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1		P1	P2	P3	P4	P5	P6	Possible solution	Notes
2									
3	User is annoyed by the slow login process								
4	Uses the "Calculate" button								
5	Says something positive about the calculator feature unprompted								
6	Asks for help with finding the "Management" page								
7	Expected the process of adding a new contact to be much quicker								
8	Discovered the voice feature								
9	Understands the meaning of submitting a lead request								
10	Surprised (in a bad way) by the results page of the lead search								
11	The user experiences flow								
12	Double-clicks icons (rather than single-clicks)								
13	Confused by the last paragraph in the Lead page								
14	Says that the Reports page has a clean look								
15	Keep clicking the "visit now" text in the home page								
16	Attempted submitting a lead request without filling in 2 mandatory fields								
17	Thinks the product is relatively slow								
18	Didn't notice the message bar								
19	Complains about font size								
20									
21									
22									

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	P4	1	54	6	0	111	3	0	9	5	0	215	5	
,	P5	1	21	5	1	100	4	1	10	3	0	199	7	
3	P6	0	27	7	1	97	2	1	11	1	1	178	6	
)	Mean	0.8	29.5	5.5	0.8	95.7	2.2	0.5	9.5	3.0	0.2	251.8	5.5	
0	Count	6	6	6	6	6	6	6	6	6	6	6	6	
1	Standard deviation	0.4	12.9	1.0	0.4	14.0	1.2	0.5	1.0	1.7	0.4	66.8	1.0	
2	95% confidence	0.3	10.4	0.8	0.3	11.2	0.9	0.4	0.8	1.3	0.3	53.5	0.8	

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Observations Metrics -Participants Raw - F

Tomer Sharon 👻

						Tomer Sharon 👻								
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4	Age range	18-23	31-40	31-40	24-30	41-50								
5	Role	Media planner	Archeologist	Librarian	Student	Professor								
6	Company	Ogilvy & Mather	Independent	NY Public Library	Stanford	NYU								
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ADVANTAGES INVOLVES THE ENTIRE TEAM FAST TURNAROUND OF RESULTS **COMMITTMENT TO ACT ON RESULTS VISUAL INFO CLARIFIES WHAT'S IMPORTANT NO REPORT**

goo.gl/w0zXw

WHY IS IT FAST?



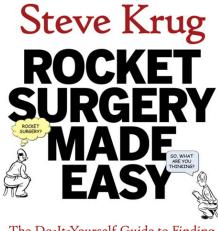
PSYCHOLOGY OF ATTITUDE & BEHAVIOR

- 1. Level of measurement
- 2. Time between measurements
- 3. Way of acquiring attitude
- 4. Clarity of attitude
- 5. Accessibility of attitude to conscience
- 6. Personality

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Impactful A/B usability study
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The how-to companion to the bestselling Don't Make Me Think! A Common Sense Approach to Web Usability

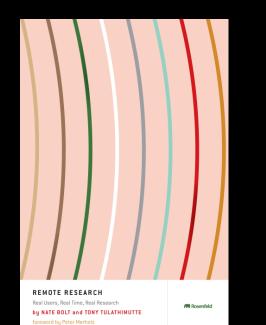


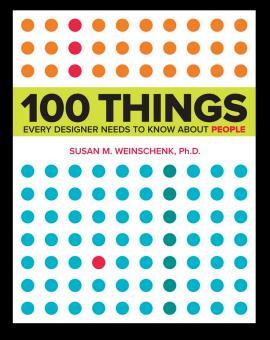
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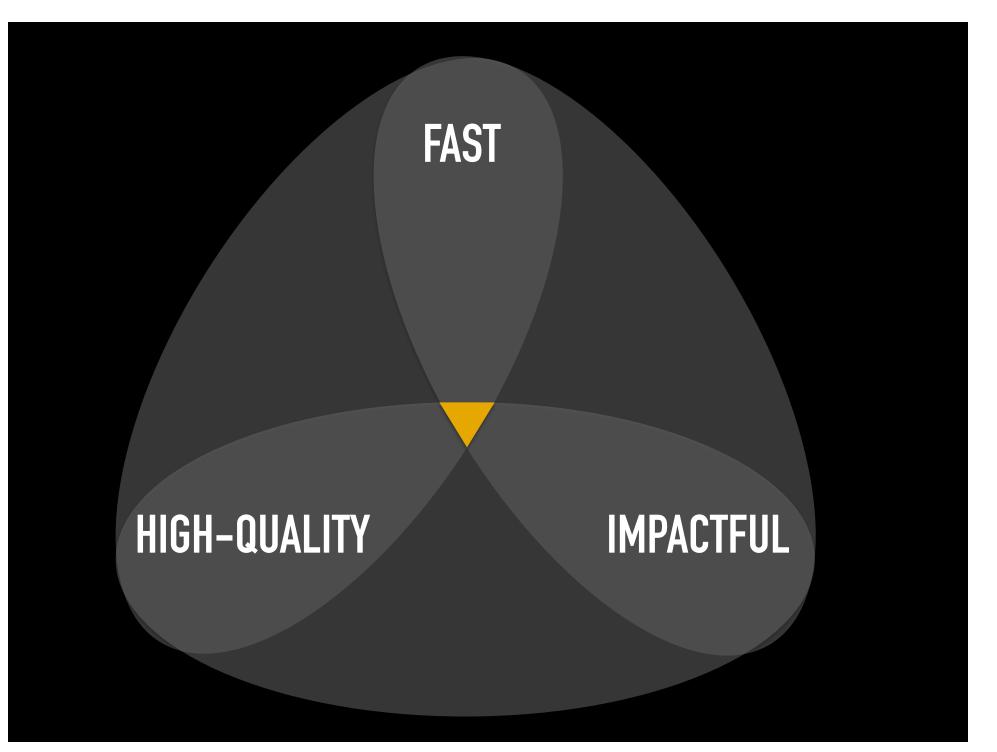




AREASURING THE USER EXPERIENCE

and Presenting Usability Metrics

TOM TULLIS BILL ALBERT





@tsharon