



Introduction

By studying this module, you'll fully understand the importance of research as the key ingredient underpinning UX Design. Research is fundamental to understand the problems we are attempting to solve for users.

You'll learn about the range of different types of research such as qualitative v quantitative, attitudinal v behavioural. You'll also learn how to prepare and carry out a variety of research techniques.

Nothing changes mindsets, deepens understanding and can make or break products like usability testing. No matter where your UX career takes you, usability testing is a core skill that must be mastered. The good news is - like much else in UX - it's not difficult to do.

You'll learn everything you need to know about usability testing. Why you do it, how you do it and when you do it. During this module, you'll learn how to set clear usability test objectives, recruit users, prepare a test script and facilitate and record usability test sessions for desktop and mobile.

You'll learn how to set clear objectives for customer and stakeholder interviews, to prepare scripts and to conduct and record interviews. Talking and listening to users is an essential part of the UX designer's job so the project on depth interviews will help build your confidence in carrying out interviews with users/customers.

You'll also understand how to conduct card sorting exercises, online surveys, heuristic evaluations as well as understanding the concept of A/B testing and how it helps optimise and refine existing software.

Your recommended reading for this module includes Just Enough Research, which gives a great overview of the best research methods that you can easily do yourself.

Steve Krug's Rocket Surgery Made Easy is a small classic about conducting your own usability tests and his book Don't Make Me Think covers a lot of heuristic evaluation material. And we recommend The Mom Test, a great book on customer interviews.

There's a lot going on in this module so, as usual, use the note sheets below to capture key concepts during the video lessons.

In terms of projects, there are four projects to complete during this module:

- Usability tests
- · Depth interview
- Online survey
- Competitive benchmark

Topics covered include:

- Research landscape
- Qualitative research
- Quantitative research
- Observational/attitudinal
- Usability testing
- Defining test objectives
- Test scripts
- Finding users
- Desktop / mobile setups
- Card sorting
- Depth interviews
- Online surveys
- Stakeholder interviews
- A/B testing
- Heuristics

Recommended reading

Just Enough Research

Erika Hall

@mulegirl

Rocket Surgery Made Easy

Steve Krug

@skrug

The Mom Test

Rob Fitzpatrick

@robfitz

Don't Make Me Think
Steve Krug

@skrug

Additional resources

- The Distribution of Users' Computer Skills Worse Than You Think "One of usability's most hard-earned lessons is that you are not the user."
- When to Use Which User-Experience Research Methods
- User research what's tomato ketchup got to do with it?
- Ten things I wish I knew as a UX Research team of one
- Never Ask What They Want
- How to find users for a usability test
- UXPin: The Guide to Usability Testing
- Survey Monkey
- <u>Dan Siroker (Optimizely) at Web Summit 2014</u> A/B Testing on the Obama campaign
- Seven lessons I learned from the failure of my first startup, Dinnr
- Excuses, Excuses! Why Companies Don't Conduct User Research UXmatters
- Jakob Nielsen's 10 Usability Heuristics NNGroup
- Elevate Your UX with Heuristic Analysis

Note taking

The research landscape

If you're not doing research,

you're not doing Wi

Quantitive (Quant) research. "hard" science

- structured - spective

- numerical (Qual) research

- subjective

- smaller sample sizes - "Soft" science

Observational (Qual) research

- subjective

- smaller sample sizes - "Soft" science

Observational (Qual) research

- subjective

- smaller sample sizes - "Soft" science

Observational (Quant) research

- subjective

- subjective

- subjective

- subjective

- subjective

- spinions.

- opinions.

Lo Too much who bins.

Lo The product is not for the professional or insiders.

Lo assumptions are dangerous.

Lo Research lets you test assumptions

Qualitative research

Shallow research = shallow insight Avoid asking peoples' opinions. Don't ask loaded questions.

- Unstructured
- -not mensurable
- deep insights
- subjective open to interpretation smaller sample sizes
- soft science

Quantitative research

- Structured Inumerical
- measurable
- broad insight
- objective
- statistical
- _ larger sample sizes
- hard' science

Observational research
Observational research
Observational research
Observational research
People are unreliable
Asking directly doesn't always help.

Notching what users do
observationally doesn't always help.

Notching what users do
observationally doesn't always help.

Notching what users do
observational research

Notching what users
observati

Attitudinal research

- Listening to what people say

Lb surveys.

us customer feetback.

Bias

-self-referential design - knowing the
answer

- being defensive - asking leading a

What is usability testing

Watching the new on software is wed

Duser and moderator

Lo record user

Inexpensive and uncomplicated.

Counters in.

Lo user testing software

Benefits of usability testing

- presents user's exparience

- presents user's exparience

- unite stakeholders

- challenge assumptions

- variety of near data

- avoid feature debates

- cost effective

- understand user goals

- what do people actually do?

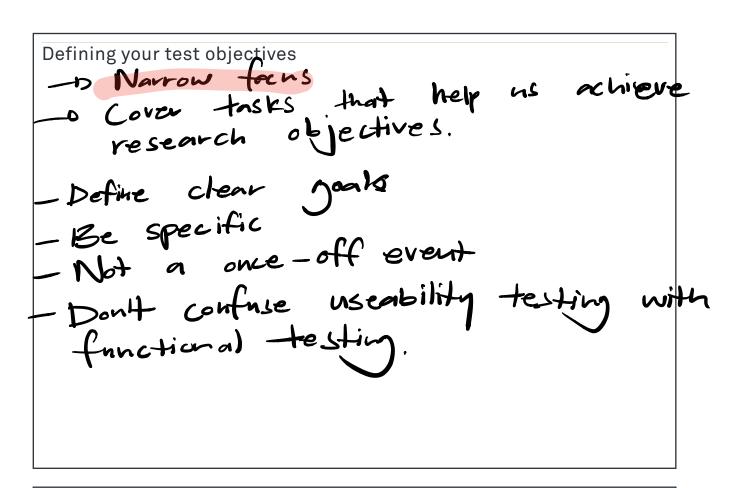
- context of use

- how are we helping the over

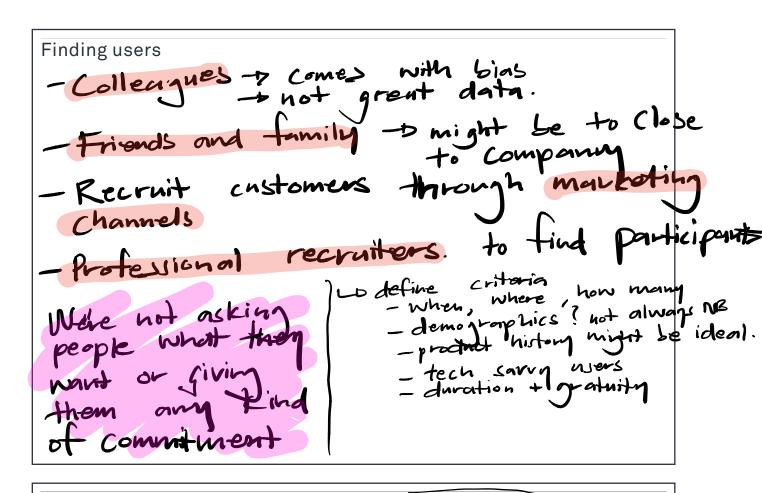
- identify problems or roadblocks

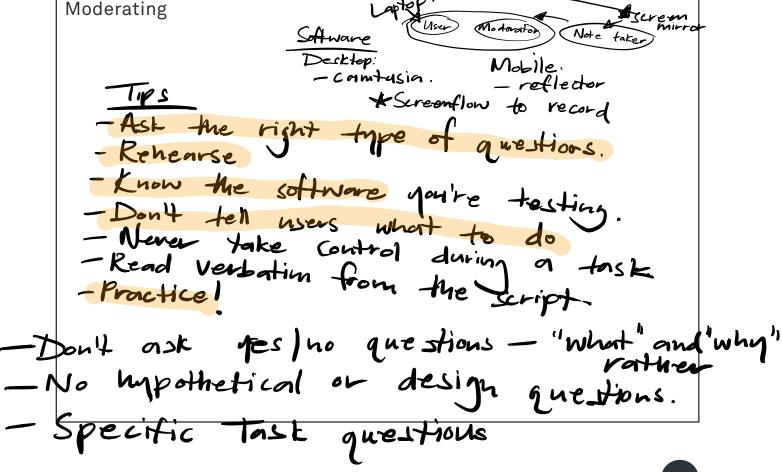
- comparative testing

- Are we valuable?—would they we it?



	Creating a test script \(\)	
	Creating a test script for staying on the right t	MCF
	LD specific tasks and questions) •
	LD Specific This is	
	Lo keeps test on track.	
-	The duction: help users relax	
	Introduction explain purpose of session	in
7	Introduction: help users relax ervion: Lo explain purpose of session Lo technical setup in anestias Lo technical setup in mind:(user):	
	mue Hiars -> Koep in mind: (user):	
- eo	- we're testing product no	of usa
+0	Start - we're testing product in	
- Do	string of the tell them to think out	- lona
V	nderstand gents. — Please ask questions	•
- U	nderstone	
	Totals about previous use it	,
	Tasks: northral task exists.	
	- Pre-defined tasks.	
	- Lots of I what and why givest - Clearly explain &cenario	ions,
	- Clearly explain ecenaria	
	8	





What to test

Existing product:

- current version

- prototype

- competitors.

- peers.

New product:

- competitors.

- peers

- prototype

Start early test often.

Test in all phases before build.

One last test before launch

Understand problem during research

Validate design during prototype

Sanity check right before launch

Consent Forms are important

Online surveys

Easy to unn
Quant and Qual data

Powerful — large number of responses

Unambiguous
Cheap.

Structured questions — multi choice (Quant)

Unstructured questions — own answer (Quant)

Three golden questions
— who did you visit nebsite or app (goals)
— Were you able to complete task (and what)
— what improvements would you make

Never more than 10 questions

Keep questions on one pane

Don't ast redundant or useless questions

Customer interviews

Understand Joals - multiple youls.

Understand Context of use - whore they're using it using it spects

Don't ask for product feedback - for use.

Don't ask for design feedback.

Don't ask impothetical or questions for future

Ask about their life

- Ask about specific things and experience

- Ask about what they use and how used.

Validate assumptions with follow up

(non - leasing) questions.

- Interview - DOT interroportion

Understand business and tech pools.

Understand problems with product

Understand competitive landscape

Le Get buy in

Avoid talking features and Colutions

Stakeholder brief:

- Summany

- focus on agreements

- call out contradictions

- alignment with project goals.

Give focus - Show Stakeholders that

We're listoning

Card sorting — A good may to organise content
and or product flow
— See users mental model and
torninology

Patterns will emerge

Closed card sort — predetermined categories

Online tools or with post-its.

Two versions of same page

- run simultaneously and test usage

Mutti - variant -> combinations of

different elements

Statistical data to Lack desisions

Competitive Lenchmarking

Han do best in class solve problems

What can we emulate

What can we avoid or improve

Conventions to follow.

Similar industries.

Software should be interested in me
Heuristics - best practice gridelines.

Software Should be personal.

Learn more through trey hand use

Recognise user

Give me known information at start of user journey
No craptic error messages.
Gray out unavailable options.

Better options for doing and undoing actions.

Follow through on user actions

Don't always assume things are done by user in error.

Sensible flow of actions

Remove illogical options (or at least de-prioritise them)

That because you can present options, doesn't mean you should

Visibility of system status

(Let people know what's join on.

Status message as action is done

and as join is reached.

Confirmation page.

Match between system and real world

Use real terminology

Language that wers outside of your business can understand.

No ambiguity

Don't let machine take control

et the communication

Allow user feel in Control of actions and navigations.

Allow user to undo actions.

Recognition rather than recall

Give more into so that wer

Can more easily remember

what they're working with

Don't expect wer to remember

very specific info

Don't force me your way

Don't force me your way

Ton't force me your way

Ton't force me your way

None force me your way

Reformat frustrate onser unnecessarily

Reformat data rather than forcing

Near to Jo back and fix.

Save me steps whenever possible

Save users time.

Needless timenksting frustrates users.

Better ways of evitoring daita