

Lean Startup Summer Boot Camp

Customer Research & Validation

REVIEW

Assertions of Lean Startup

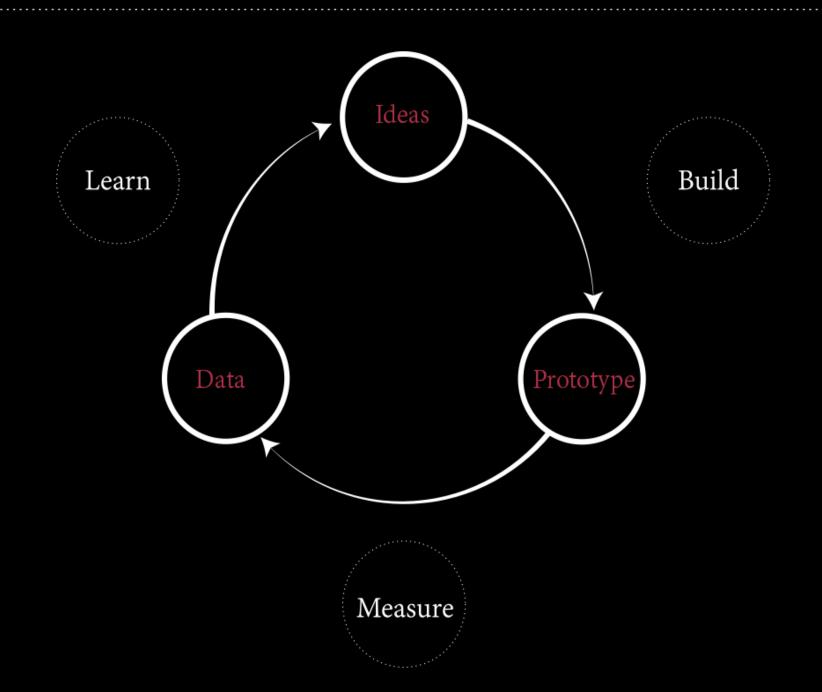
Entrepreneurs are everywhere

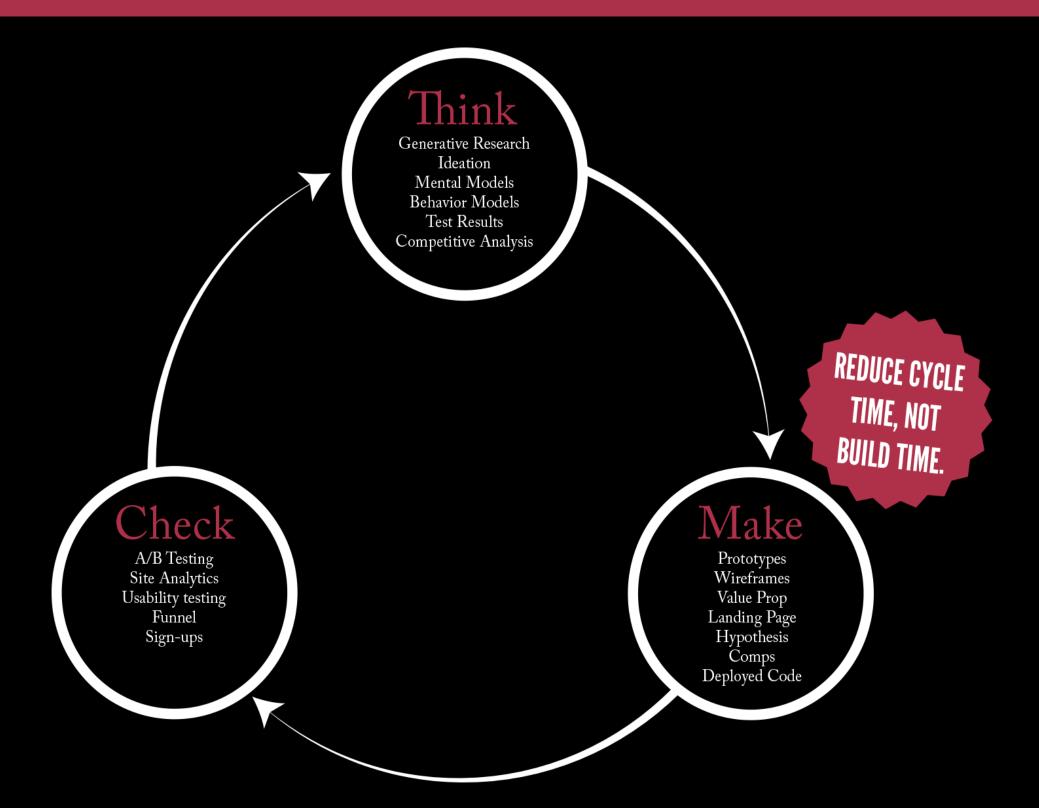
Entrepreneurship is Management

Build-Measure-Learn

Validated Learnings

Minimize TOTAL time through the loop

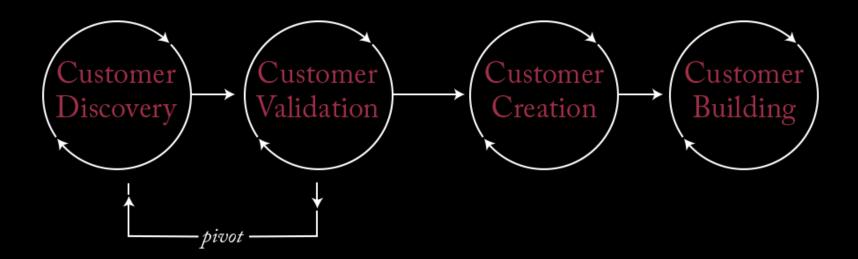




LEAN STARTUP LIFECYCLE

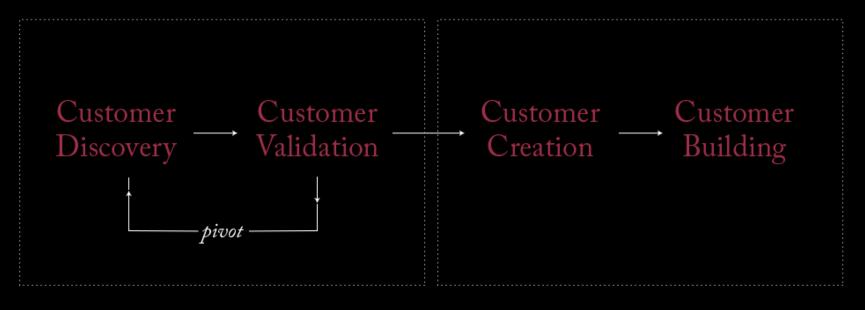


The Customer Development Process



THE CUSTOMER DEVELOPMENT PROCESS

in other words...



EXPLORE

EXECUTE

7 Keys to Lean Startup

Uncover your customers' pain points through research

Question your assumptions

Formulate hypotheses

Collaborative ideation

Experiments, NOT releases

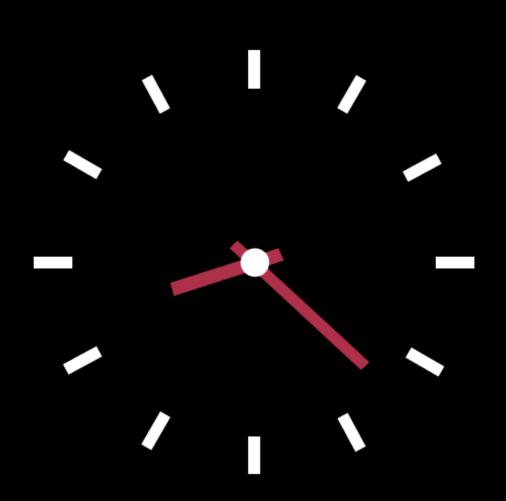
Learning isn't failure

Amplify what works

Let's start with an exercise!



That is timeboxed

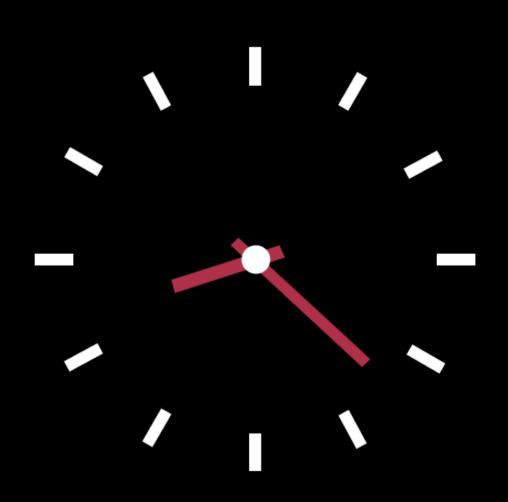


Customer / Problem Hypothesis

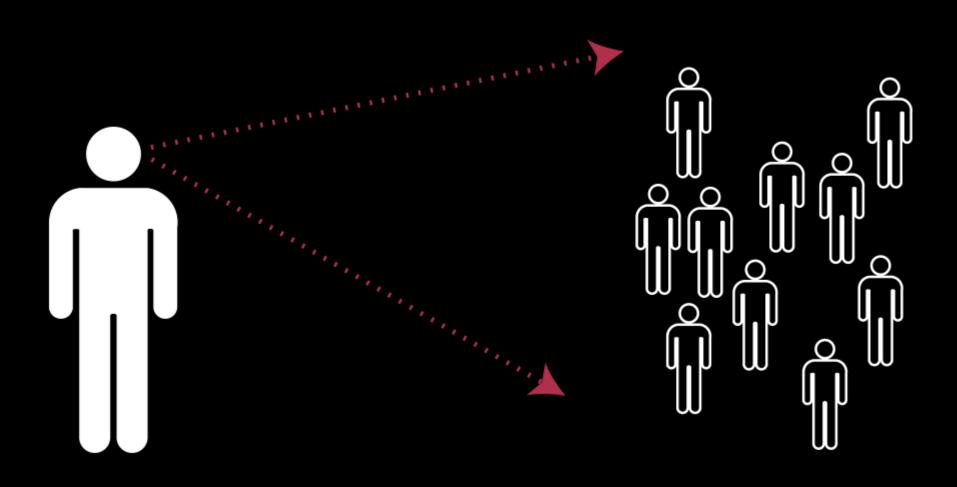
Who, specifically, do you think your customer is?

What problem, specifically, do you think that they have?

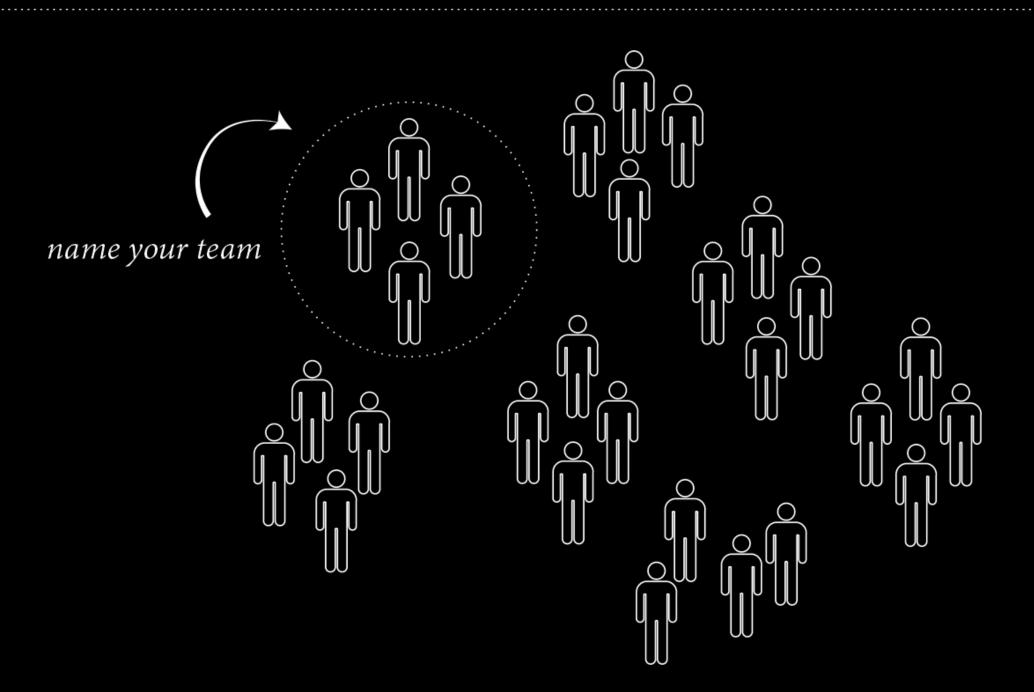
You have 2 minutes

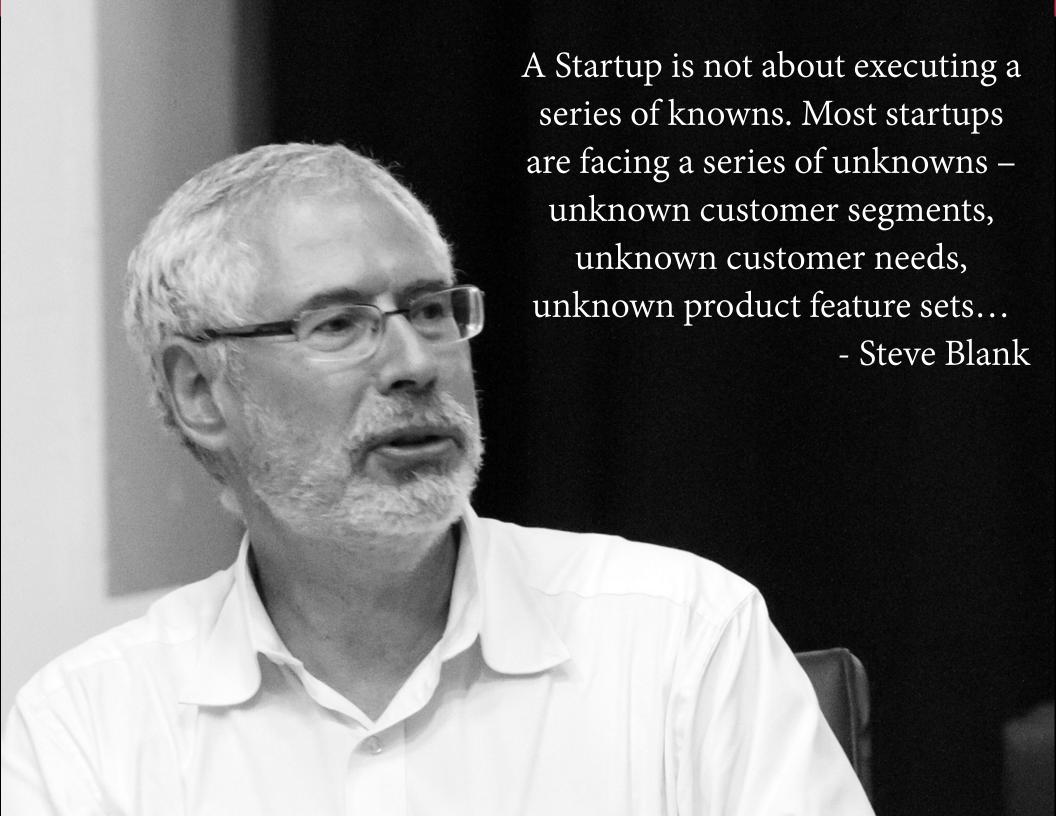


Pitch your concept! (30 seconds)



Form Teams (5 minutes)





Getting Started

HYPOTHESES & ASSUMPTIONS

hy·poth·e·sis/hīlpäTHəsis/

Noun

- A supposition or proposed explanation made on the *basis of limited evidence* as a starting point for *further investigation*.
- A proposition made as a basis for reasoning, without any assumption of its truth.

Synonyms supposition - assumption - conjecture - presumption

as·sump·tion /əlsəm(p)SHən/

Noun

- A thing that is *accepted as true* or as certain to happen, without proof: "they made certain assumptions about the market".
- The action of taking power or responsibility: "the assumption of an active role in regional settlements".

Synonyms supposition - presumption - *hypothesis* - surmise



Circular Much?

Hypotheses

A proposal made on the basis of limited evidence as a starting point for further investigation.

Validation Board	Val	lida	tion	Boa	arc
------------------	-----	------	------	-----	-----

Project Name: Team Leader Name:

Track Pivots	Start	1st Pivot	2nd Pivot	3rd Pivot	4th Pivot
Customer Hypothesis	Tips: For two-stded markets, always validate the riskler side first				
Problem Hypothesis		Remarcher Limit consticty-note per box With in ALL GAPS Do not with more than 5 words on any dicky-note			
Solution Hypothesis	Tips Do NOT define a solution until you've validated the problem				

Design Experiment

Tip: Clear all post-its from this area after each experiment is completed

Core Assumptions

Assumptions that must be validated for the business to work

Riskiest
Assumption

Learn: Which Core Assumption has the highest level of uncertainty?

Method

Build: Which MVP experiment will effectively test your RA? Exploration, Pitch, or Concierge

Minimum Success Criterion

Measure: What is the weakest outcome we will accept as validation?

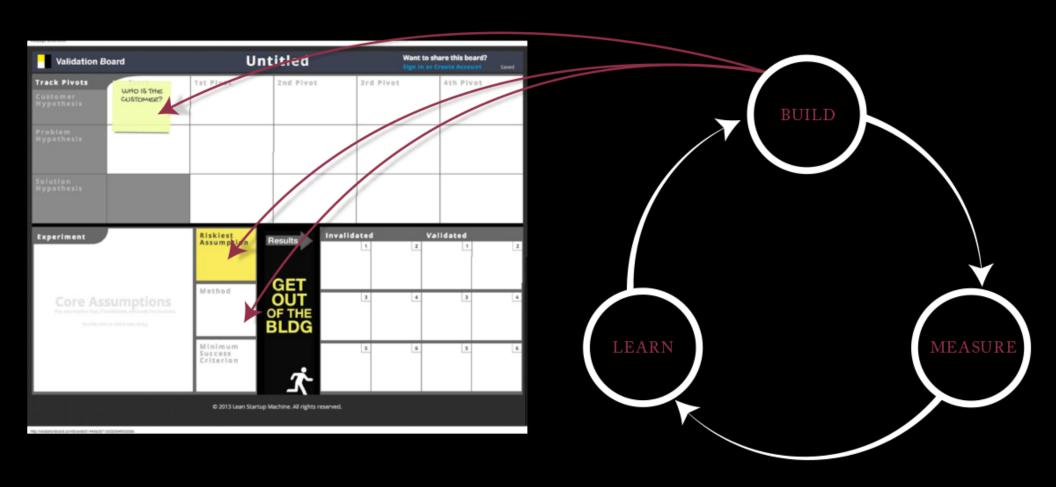
Results



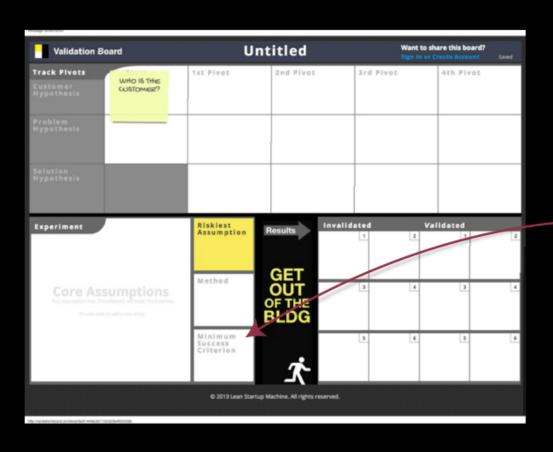
Invalidated	I	Pivot at least one Core Hypother	ois	Validated	Braineto	rm and test the next Riskiet Assum	ption
	1		2		1		2
Only put the Risklest Assumption from an experiment in these box Record data & learnings separah	80						
	3		4		3		4
	5		6		5		6

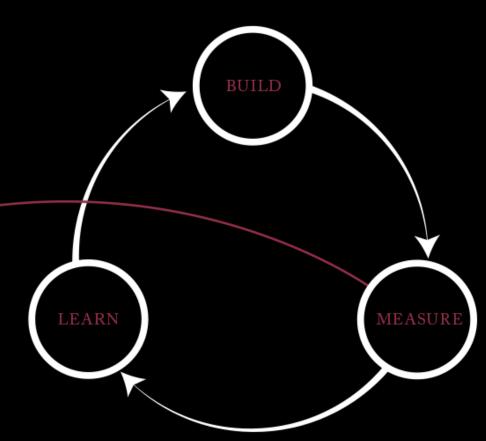


Build > Measure > Learn

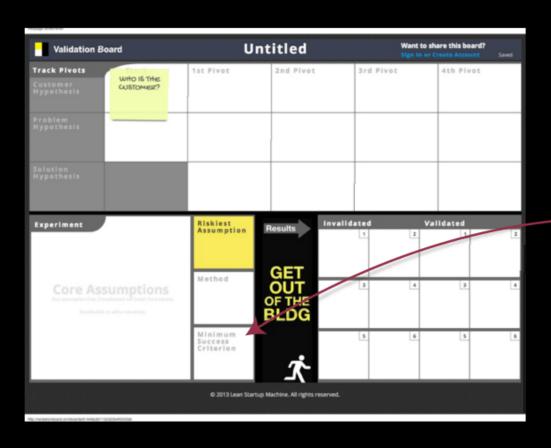


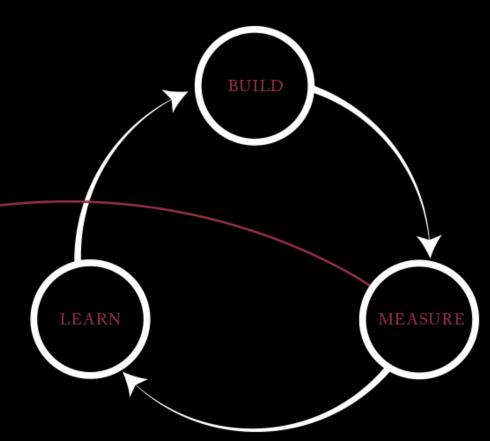
Build > Measure > Learn





Build > Measure > Learn





Customer Hypothesis

Based on what you know now (which is frightfully little), who do you believe you should investigate as a possible customer?

Customer Hypotheses

Define For Your Earlyvangelist NOT

Your Mass Market Customer

5. Has or can acquire a budget

4. Has put together a solution out of piece parts

3. Has been actively looking for a solution

2. Is aware of having a problem

1. Has a problem

Customer Hypothesis

2 Sided Market?

Work To Validate Your Riskiest
Customer First

Problem Hypothesis

What problem does your customer have?





Problem Hypothesis

The Problem Hypothesis must relate directly to the Customer Hypothesis.

Solution Hypothesis

You cannot DEFINE
your solution
until you VALIDATE
the problem exists, and that it is
ACUTE.

Assumption

A thing that is accepted as true or as certain to happen, without proof.

"Entrepreneurs have the unique skill of believing that their assumptions are facts."

Classic Assumptions

Assume your customer is known

Assume their problem is real

Assume your customer wants to solve their problem

Assume your solution will solve the problem

Articulate Your Assumptions

Each assumption MUST BE TRUE or one of your Hypothesis will be Falsified

Assumptions that don't have to be true... can be removed.

Identify CORE Assumptions

IF this Assumption is Invalidated You Will Need to change your business model

IF this Assumption is Invalidated You Will Need to Pivot

Identify Riskiest Assumption

The CORE Assumption... with the MOST Uncertainty

Your Hypotheses and Assumptions should tell a *Coherent Story

I believe I can find

(Customer Hypothesis)

and they will say they have

(Problem Hypothesis)

and when I show them

(Solution Hypothesis)

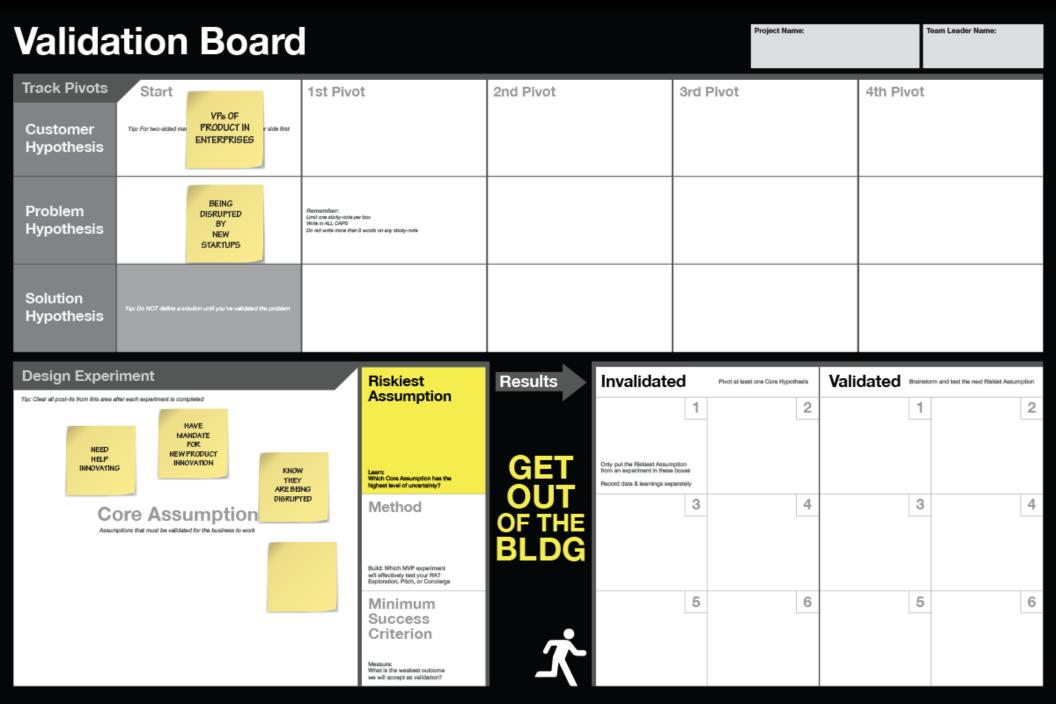
they will try it and give me feedback.

Early Assumptions Can Include:

- 1. Who is our customer?
- 2. What pain points to they have?
- 3. How will we solve their pain points?
- 4. What is the most important thing they need?
- 5. What is our differentiation?

Which you turn into testable hypotheses!

Showing Assumptions



Method

- Exploration (this is what you are doing right now!)
- Pitch
- Concierge

Identifying Method



Minimum Success Criteria

- Interview X people?
- What % of people will validate?
- What is the minimum "signal" for you to continue with this?

Exercise! 10 minutes.

- As a team, to write out all the assumptions that your customer and problem hypothesis are based on.
- 1 Idea Per Post-it
- ALL CAPS



Please Validate Me!

CUSTOMER RESEARCH

Henry Ford never said,
"If I'd asked customers what they wanted,
they would have said, "a faster horse."



It's a lie. A myth. An urban legend.

"Expertise ... breeds an inability to accept new views."

-Laski

"Whenever we propose a solution to a problem, we ought to try as hard as we can to overthrow our solution, rather than defend it."

- Karl Popper

UX Mantra

Mantra: You are not the customer.

Only through research can we uncover people's pains, needs, and goals, in their context.

Lean UX Principles

- Context first
- Hypotheses, not Requirements
- Opinions = guesses
- Visualize your work
- Reduce cycle times
- Last responsible moment

Types of Research



ETHNOGRAGHY





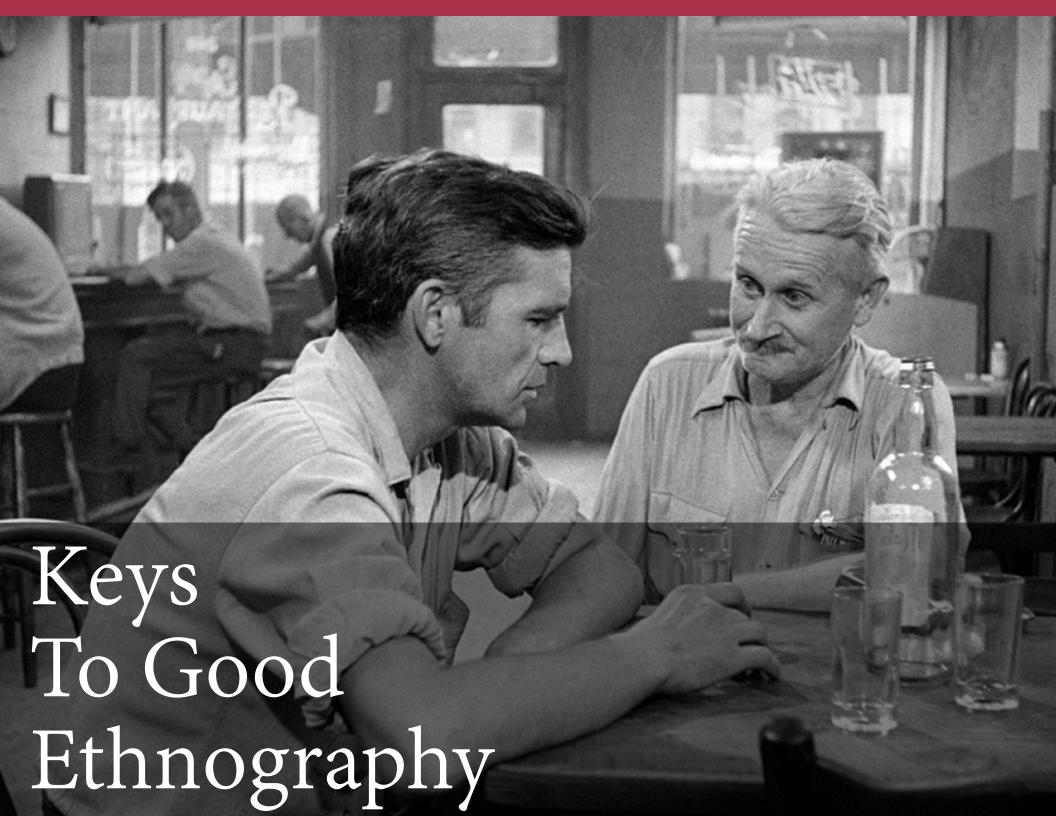
1. Discover the semantics of living

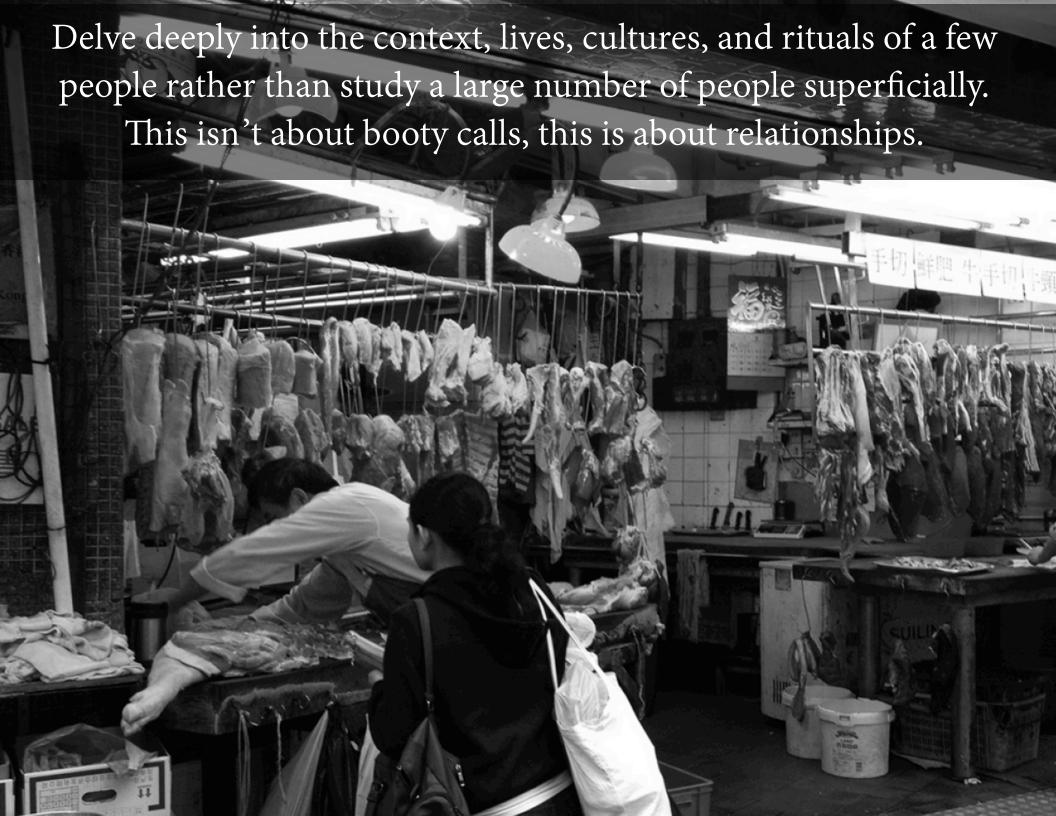


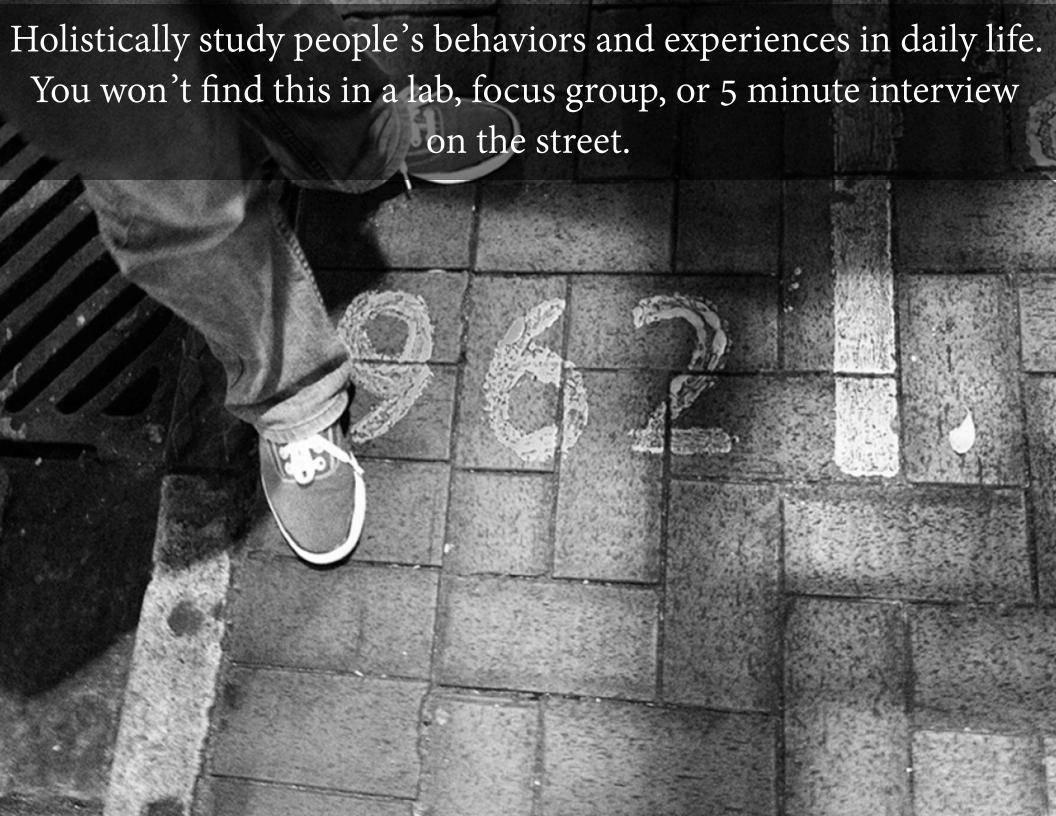
2. Decode signifiers of cultural practice

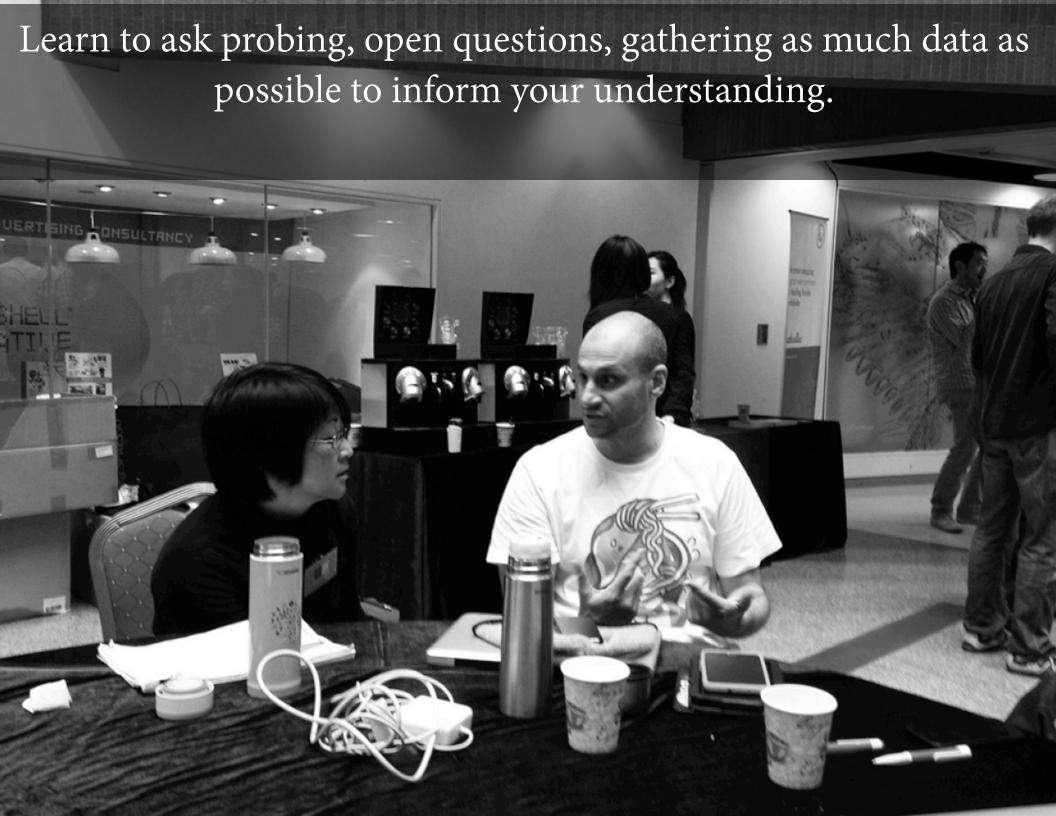












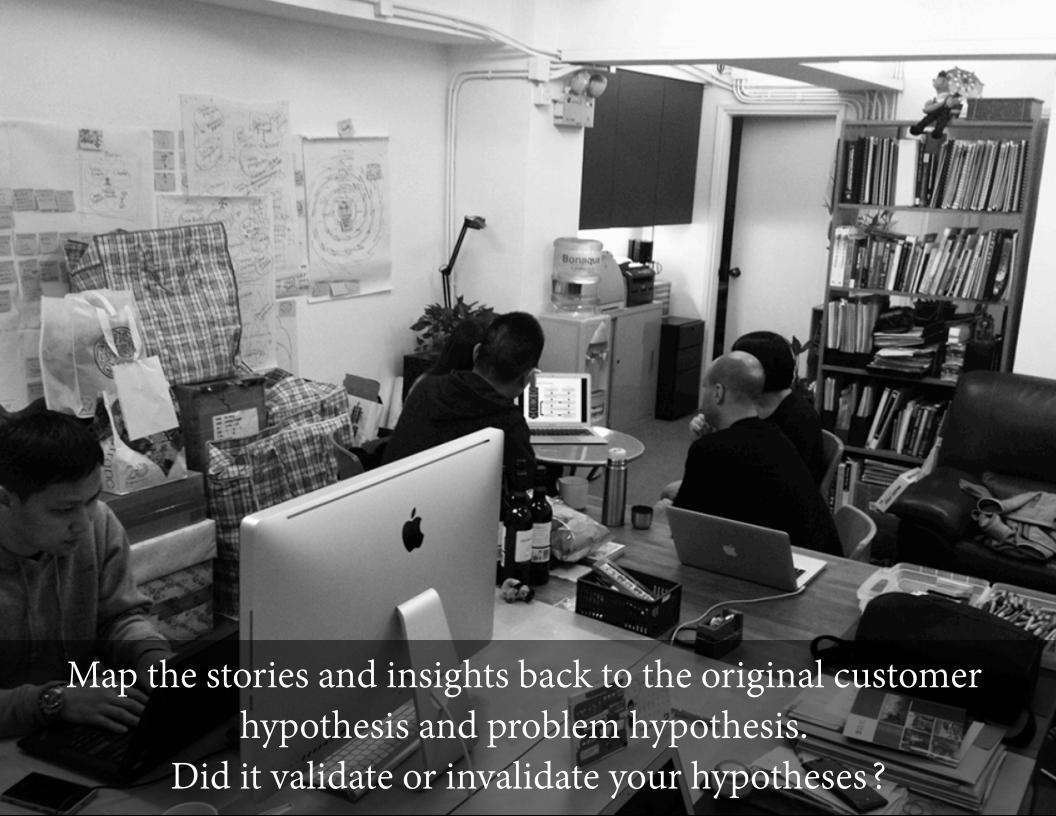


Practice "active seeing," and "active listening." Record every minutiae of daily existence, and encode on post-its.





Use collaborative sense-making activities like cynefin and affinity diagramming to understand and formulate a narrative of experience.



AKA "Get out of the building."

CUSTOMER INTERVIEWS

Before Interviews

- Identify who you are interviewing
- Articulate customer hypotheses
- Craft a topic map for your interviews
- Write down your prompts

9 Keys to Customer Research

- 1. One interview at a time
- 2. Always pair interview (if you can)
- 3. Introduce yourself
- 4. Record the conversation
- 5. Ask general, open-ended questions to get people talking
- 6. As questions around the problem "Do you ever experience a problem like X"
- 7. Then ask, "Tell me about the last time..."
- 8. Listen more than you talk
- 9. Separate behavior from narrative

Guidelines

- 1. It's about empathizing.
- 2. Listen, even when people go off topic
- 3. Context is king document it, and make sure the context of research maps to the problem being explored
- 4. Start from the assumption that everything you know is wrong

You need to gather:

- 1. Factual information
- 2. Behavior
- 3. Pain
- 4. Goals

You can document this on the persona board as well as

Photos, video, audio, journals.... Document everything

A simple 3-Point Interview

- Has [insert specific problem] been a problem for you? (context)
- •Tell me about the last time you dealt with this problem? (story)
- What's your ideal solution for this problem?
 (solution)

Open Ended Questions Start With...

- Tell me about...
- *How so...*
- What are your thoughts on...
- Could you elaborate on...
- *Give some examples of*
- *Tell me about the last time you...*

During the interview

DO

- Take notes
- Smile
- Ask open-ended questions
- Get their story
- *Shut up and listen*

DON'T

- Talk about your product
- *Ask about future behavior*
- Sell
- *Ask leading questions*
- Talk much

DESIGNING SURVEYS





How often teenagers use your website

You might ask teenagers...

"How often do you visit my website?"

- a. Very Rarely
- b. Rarely
- c. Occasionally
- d. Frequently
- e. Very Frequently

You might ask teenagers...

"How often do you visit my website?"

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And what's wrong with these????

You might ask teenagers...

"How often do you visit my mebrite?"

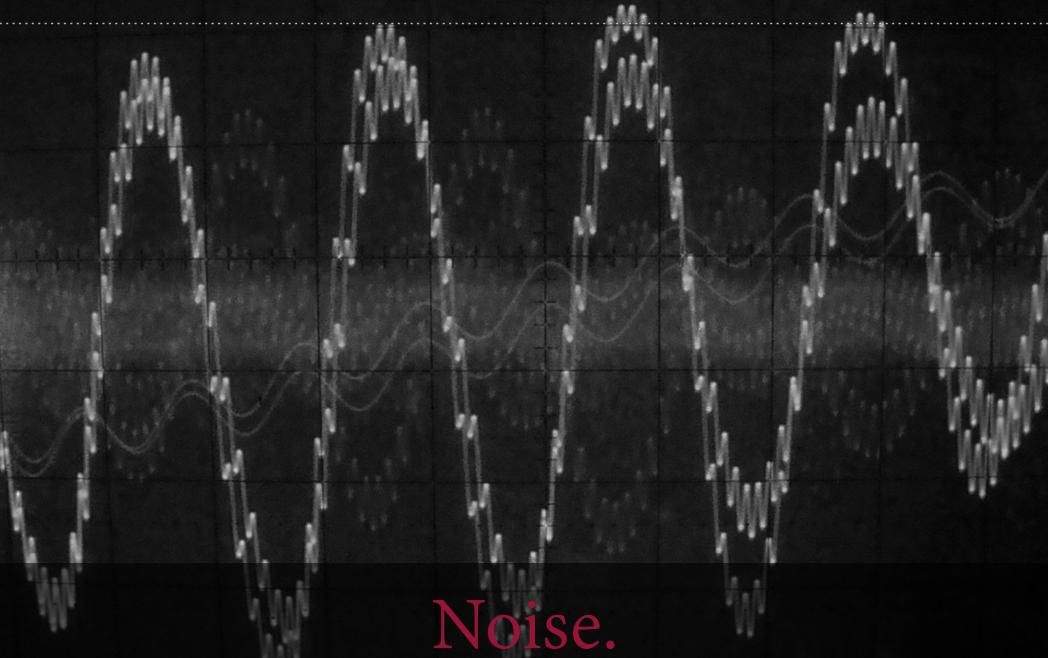
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And what's wrong with these????

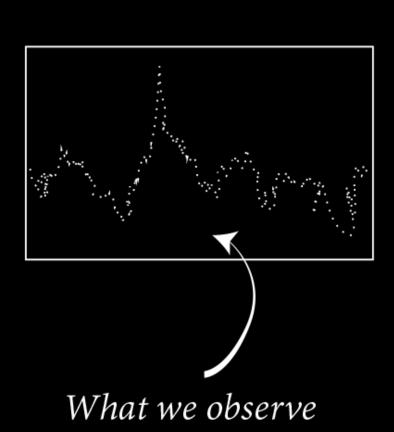
"Hmmm, for me "frequently" really means..."



So what are we really measuring?

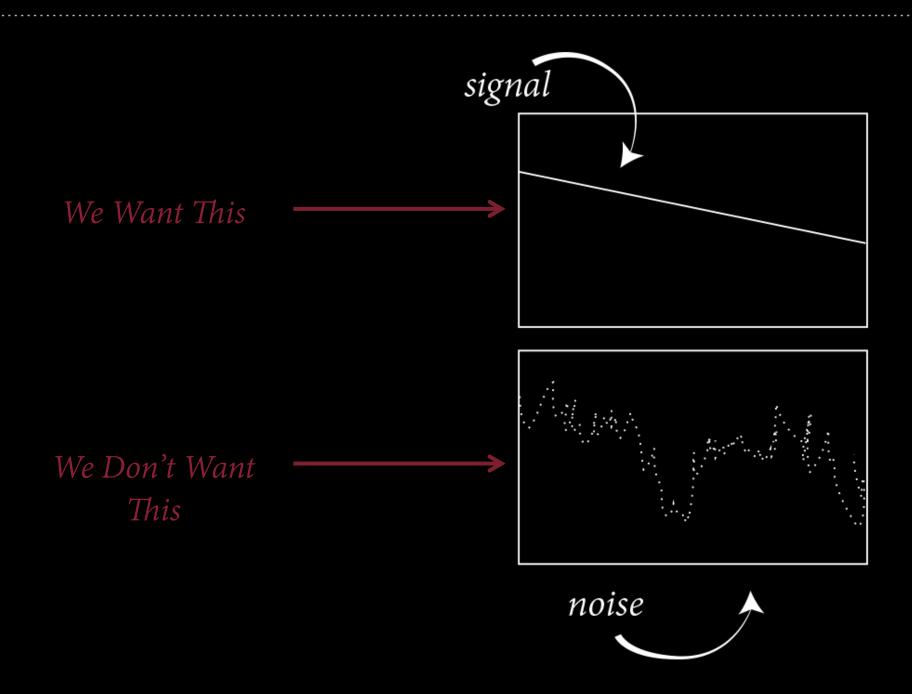


What is noise?



signal noise

What is noise?

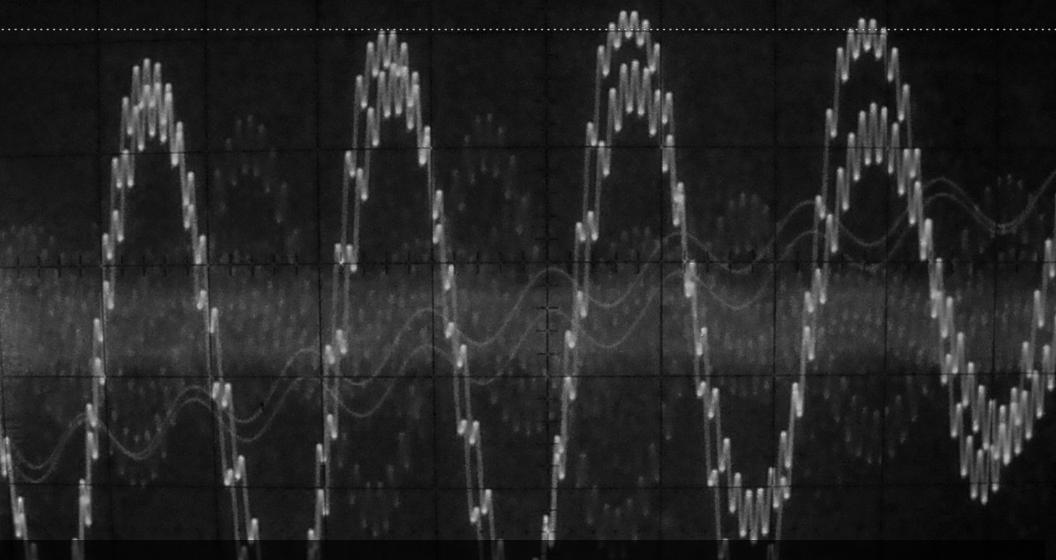


Imaginary Scenario

Let's *really* stretch our thinking a bit here to provide a more concrete understanding of "noise" in your data.

Imagine you have AT&T phone service and you're trying to make a call. The signal isn't clearly going through and you end up hearing everything but the other person's voice. Frustrating, right? Thank God this is only a pretend scenario.

How is AT&T related to "Noise"?



When you develop bad questions, you don't "hear" the message of your data clearly.

So... why is "noise" bad?

Badly structured and poorly worded questions that obfuscate meaning for test subjects provide lousy data.

Lousy data:

- Doesn't answer your research question
- Makes it difficult to interpret results
- Is pretty much useless

More bad examples

- a. Completely
- b. Very
- c. Fairly satisfied
- d. Somewhat dissatisfied
- e. Very dissatisfied

- a. Totally like
- b. Very much like
- c. Moderately like
- d. Somewhat like
- e. Not like



What's the difference between "fairly" and "somewhat"?

What's the difference between "moderately" and "somewhat"?

More bad examples

- a. Completely
- b. Very
- c. Fairly satisfied
- d. Somewhat dissatisfied
- e. Very dissatisfied

What's the difference between "fairly" and "somewhat"?

- a. Totally like
- b. Very much like
- c. Moderately like
- d. Somewhat like
- e. Not like

What's the difference between "moderately" and "somewhat"?

Semantics!

Words like...

Sometimes
Often
Moderately
Fairly
Somewhat

Are completely subjective!

They mean different things to different people.

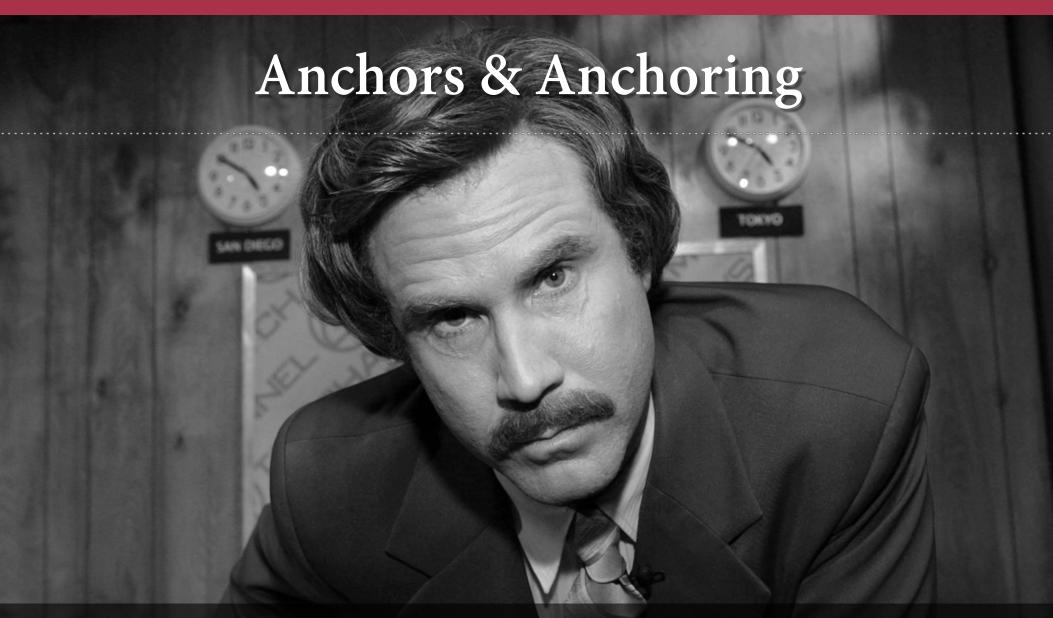


In order to gather objective data

Your questions must mean the same thing to everyone...

How often do you use my website?

- a. Never (never is never)
- b. A few times this year
- c. Once a month
- d. Once a week
- e. Few times a week
- f. Every day



Response options serve as "anchors" for each question, determining the "location" of each responses as qualitatively distinct from the other.

Importance of Anchors

Response options serve as "anchors" for each question, determining the "location" of each response as qualitatively distinct from the other.



(Ideal) Response Symmetry

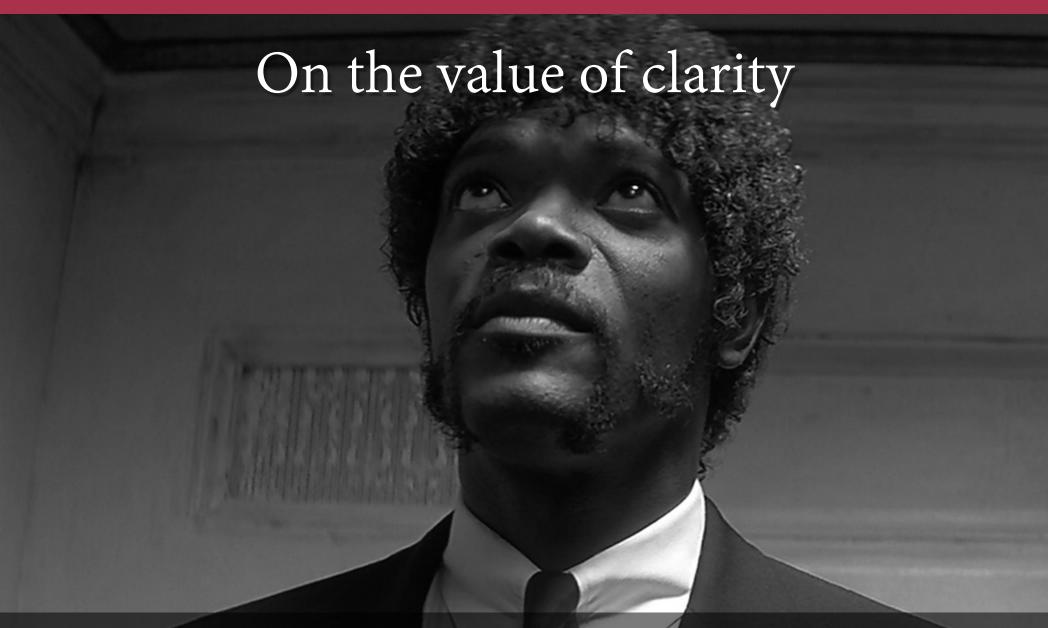
Good questions aim to have symmetrical quantitative / qualitative distance between anchors.

How often do you use my website?

- a. Never (never is never)
- b. A few times this year
- c. Once a month
- d. Once a week
- e. Few times a week
- f. Every day

The distance between "never" and "a few times a year" is proportionate to "every day" and "Few times a week"

Intuitive Anchors



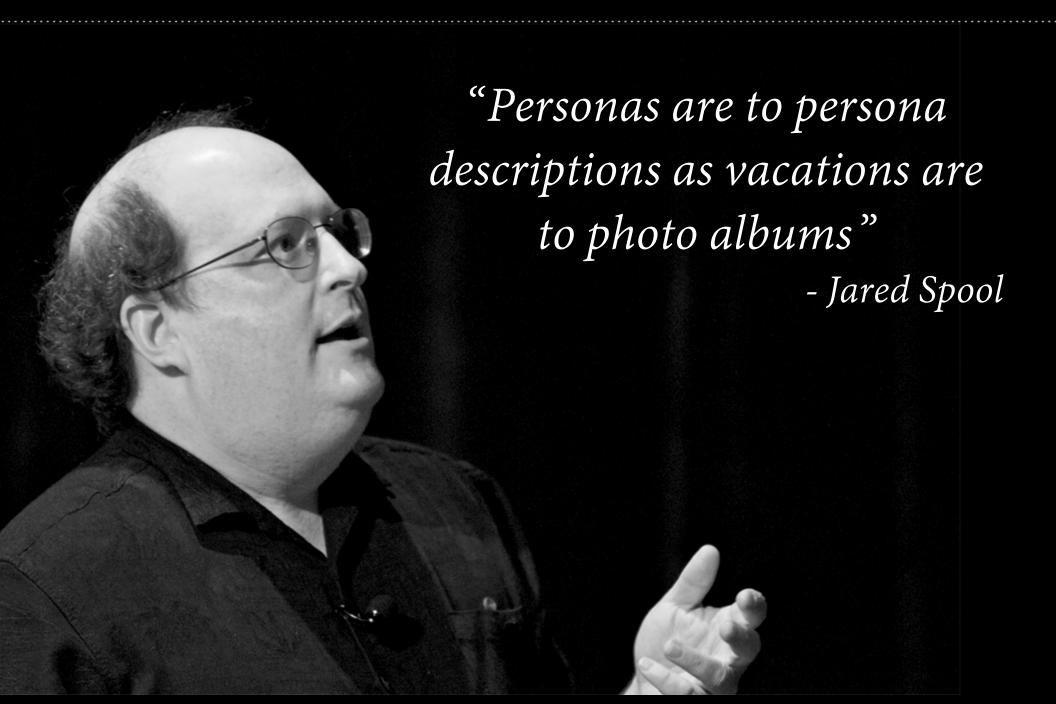
If questions are clear and concise, participants would spend less time analyzing the questions themselves and more time on answering them.

PERSONAS

Lean Personas

- Personas are an archetype of your actual, validated customers based on research.
- Personas are not a sheet of paper
- (Just) making up personas is useless
- BUT creating persona hypotheses gets the ball moving... to do research

Lean Personas



Your person requires....

- 1. Factual information
- 2. Behavior
- 3. Pain
- 4. Goals

You can document this on the persona board as well as

Photos, video, audio, journals.... Document everything

Persona Board

Facts

Factual information about your target customer.



Pain Points

State the problem you believe your target customers have, that your solution solves for.

Behavior

Existing behavior they exhibit now, because they don't have your solution.

Goals

What goals are they trying to accomplish through the behavior, that your solution will do better?

Homework

- Every team must talk to at least 10 human beings.
- You need to validate (or invalidate) your customer hypothesis
- You need to gather evidence (through interviews or surveys) that validates (or invalidates) your problem hypothesis.
- Every team must present a finished "Persona Board" next week.

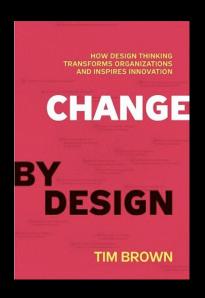
Next Week!

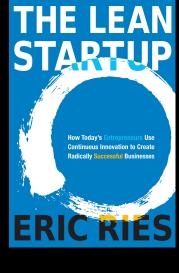


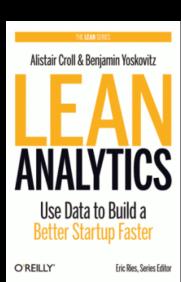
Guest Speaker: Jabe Bloom

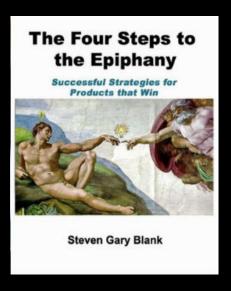
- Sensemaking Framework
- Abductive Thinking
- Collaborative Ideation
- Optionality
- Multi-hypothesis testing

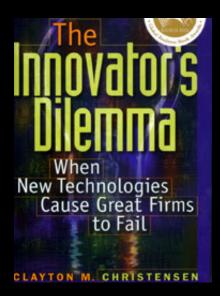
Reading Recommendations

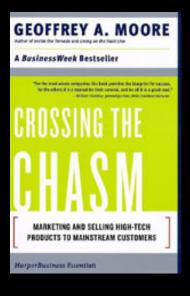












THANKS!

WILL EVANS

@semanticwill

