

A UX Conference Unlike Any Other April 18–20, 2016 in San Diego, CA

Tuesday - April 19, 2016 Featured Talk

Shaping Behavior, by Design

Chris Risdon

UX Immersion:
INTERACTIONS

shaping behavior behavioral design at scale

chris risdon head of design, capital one labs

@chrisrisdon



To do this, you may need to take your flight, get home, remember that you wanted to donate, then go through traditional ecommerce funnel, providing billing address and credit card details. Then you also have to think, "how much do I want to donate?"

You have to be fairly motivated to follow-through and donate.















call to action

mental note

time passes

remember

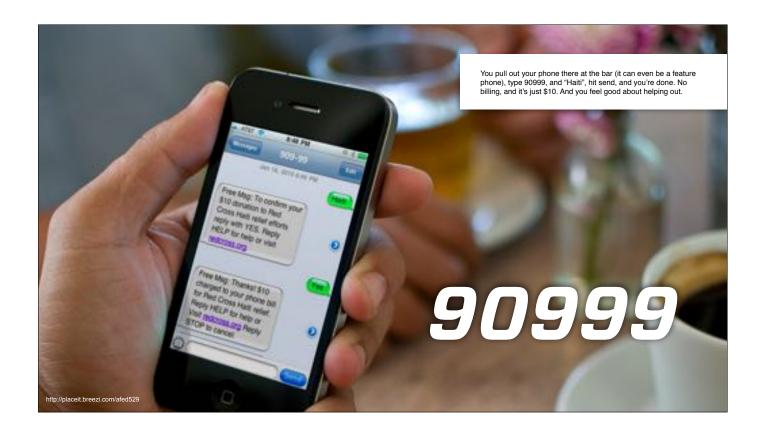
get to site

billing details

how much?

Television by Andy Fuchs, Remember by Connie Chan, Time by Richard de Vos, Thinking by Luis Prado, Credit Card by Hugo Medeiros from The Noun Projec





- •\$43 million raised via mobile texting for Haiti relief
- Most of these donations were made on impulse An immediate response to media coverage of the disaster, especially on television.
- Their interest in Haiti's recovery waned quickly

 More than half of the donors reported that they did not follow Haitian relief and reconstruction

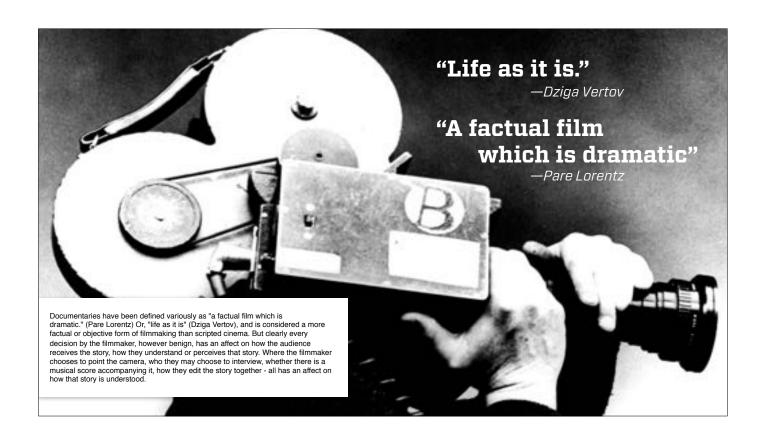
 efforts much...since making their donation.

 Over half of donors have made text message contributions to other disaster relief efforts

This means, if they didn't donate when they saw the story, they likely wouldn't have donated at all!

This means it's sustainable new behavior.

The Pew Internet and American Life Project



Every design decision influences the user.



*Nudge*Richard Thaler
Cass Sunstein

Habits

Behavioral Persuasive

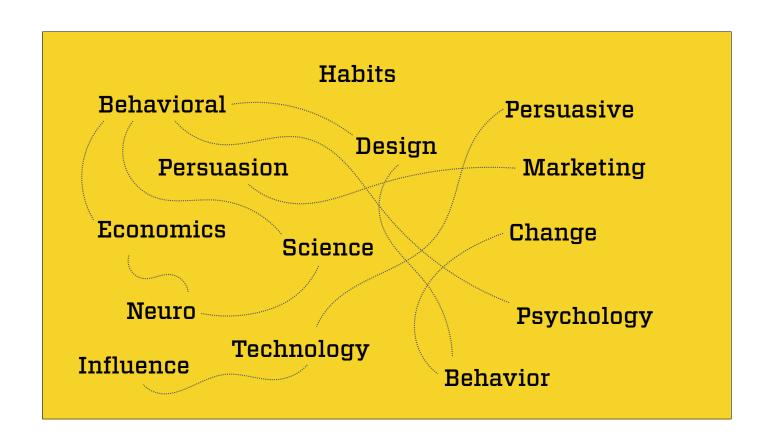
Design

Persuasion Marketing

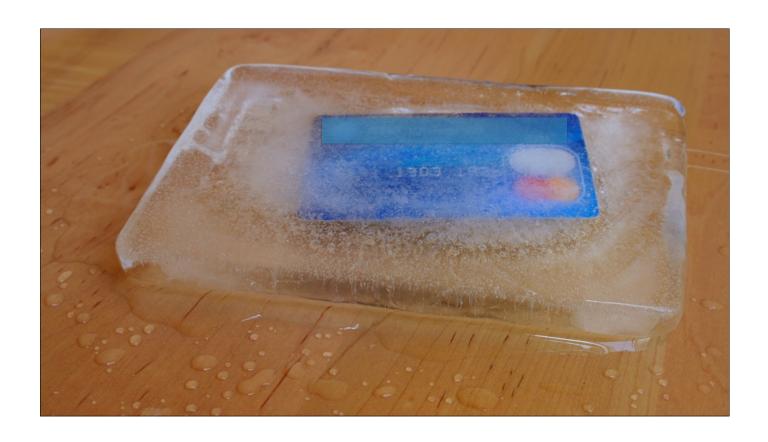
Economics Change Science

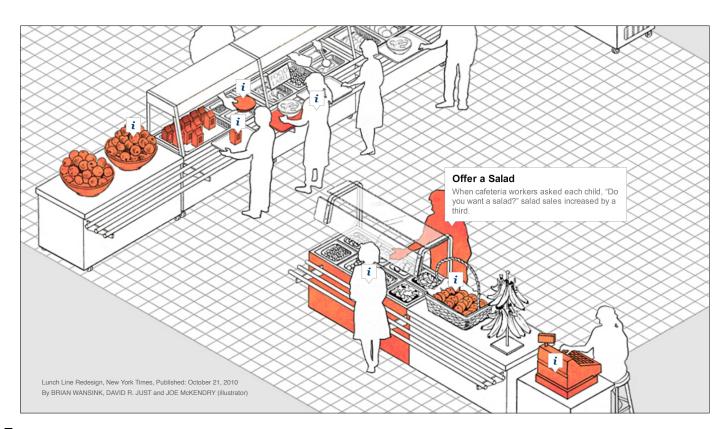
Neuro Psychology

Technology
Influence Behavior









Changing the environment is the most impactful way to influence behavior.

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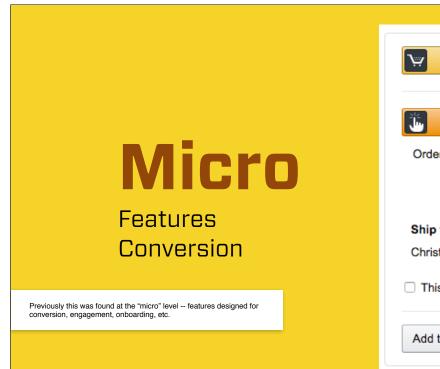
Our products and services often live in an environment over which we have little control.

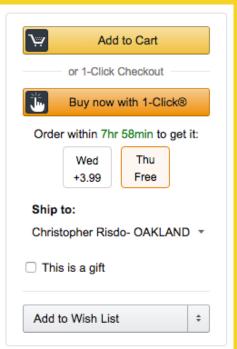
We can influence how people **perceive**the environment.

We can influence how people navigate the environment.

We can influence how people *interact*with environment.







Micro

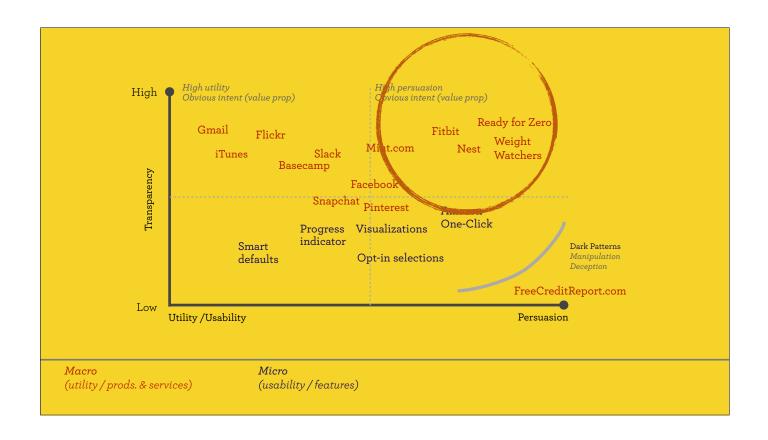
Features Conversion

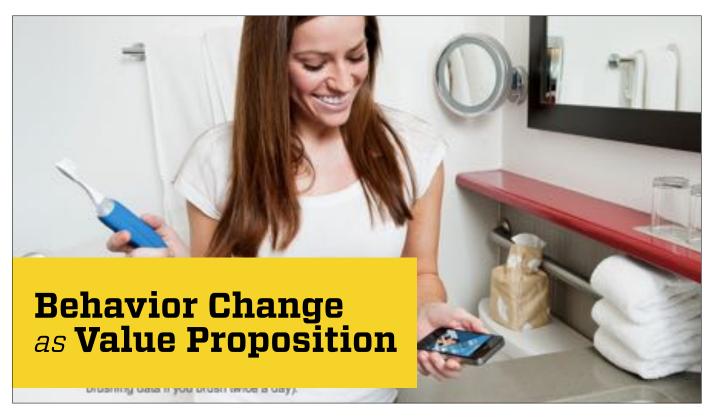
Now, we're seeing whole products and services—at the macro-level—designed to create sustained behavior change. Or, more accurately, achieve behavior-based outcomes.

This is nothing new: from smoking cessation to losing wait, there have been services like this. But technology has made it more effective.

Macro

Products/Services Behavior Change





Behavior Change as **Value Proposition**

Products and services designed and marketed on the premise that their benefits—the value exchanged—are specific behavioral-based outcomes.

Behavior Change as **Value Proposition**

Value comes from progress towards behavior-based outcome

Users "self-select" into the val proposition

Data collection is a prominent mechanism

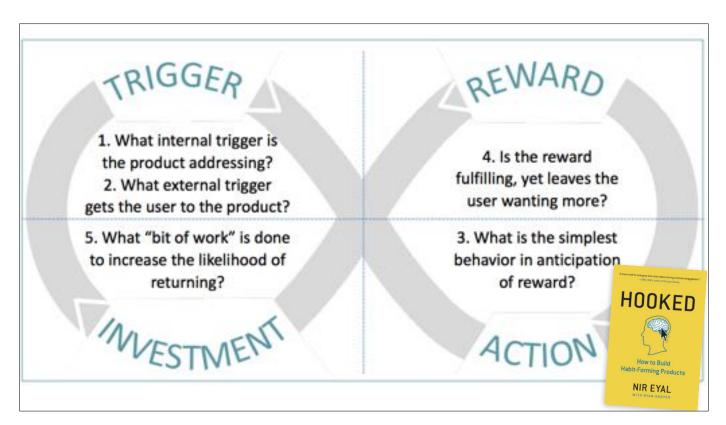
System makes prescriptive recommendations or guidance

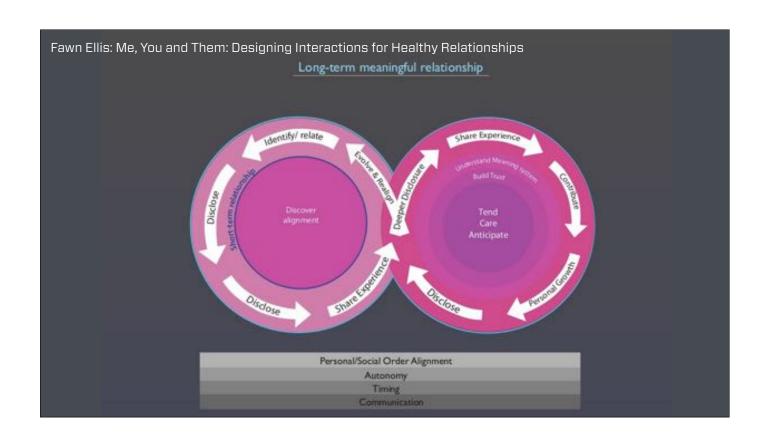
Behavior change (progress) is measurable

Sense of augmenting ability

Value proposition is time released

Internal influence







We now have more direct relationships with products and services.



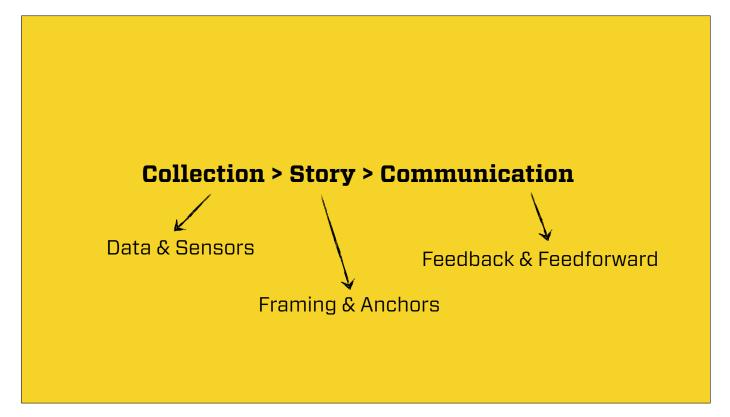
A relationship invites influence.

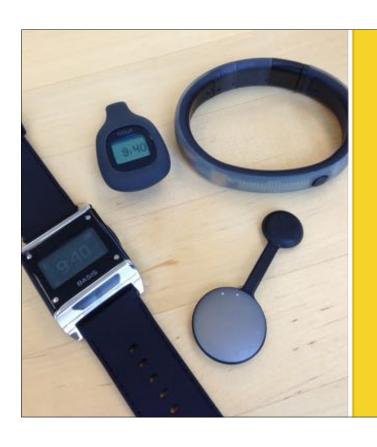
As mass consumer devices, these devices won't be about quantified self to the end-users. Data is just a means to an end.

People don't want a relationship with their data, they want to achieve behavior-based goals.

Interaction design is about shaping behavior—about creating a representational dialogue between a person and technology. An interaction designer thinks mostly about people and works to craft an interface on top of technology to help a person achieve their goals.

—Jon Kolko





Data & Sensors

Collection

GPS

Accelerometers

RFID

Image Capture

Biometric

Profiles

Status Updates

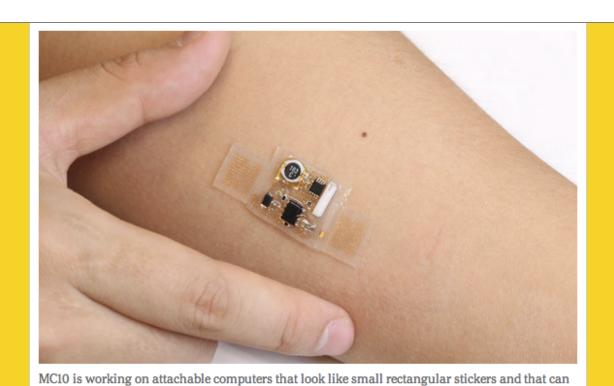
Shared credentials

Sensors

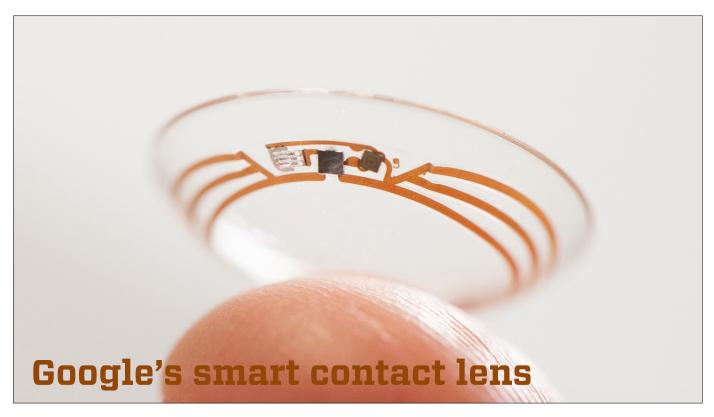
Attitudes & Behaviors



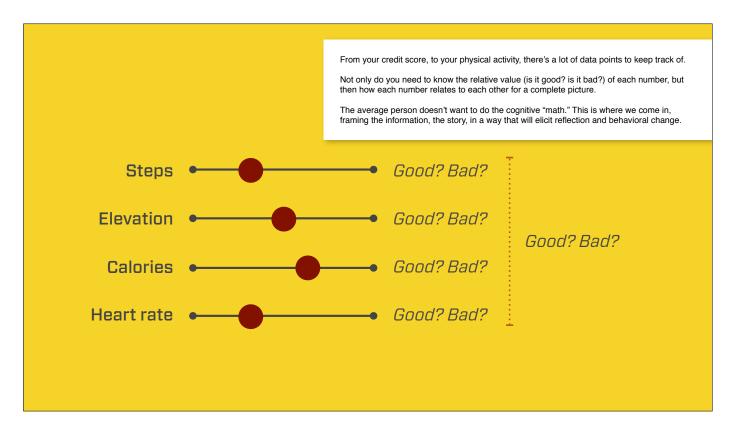




be placed on various parts of the body. John A. Rogers/The University of Illinois at Urbana-Champaign







Math is hard!

Asian Flu has hit, and expected to kill 600 people...



Option A: 200 people will be saved.

Option B: 1/3 probability that 600 people will be saved and 2/3 probability that no people will be saved.



Option A: 400 people will die.

Option B: 1/3 probability no one will die and 2/3 probability that 600 people will die.

How We Decide, Jonah Lehrer

Asian Flu has hit, and expected to kill 600 people...



Option A: 200 people will be saved.

Option B: 1/3 probability that 600 people will be saved and 2/3 probability that no people will be saved.

A = 72%

B = 28%

WTF MATH!



Option A: 400 people will die.

Option B: 1/3 probability no one will die and 2/3 probability that 600 people will die.

A = 22%

B = 78%

How We Decide, Jonah Lehrer

How do you add meaning to data?

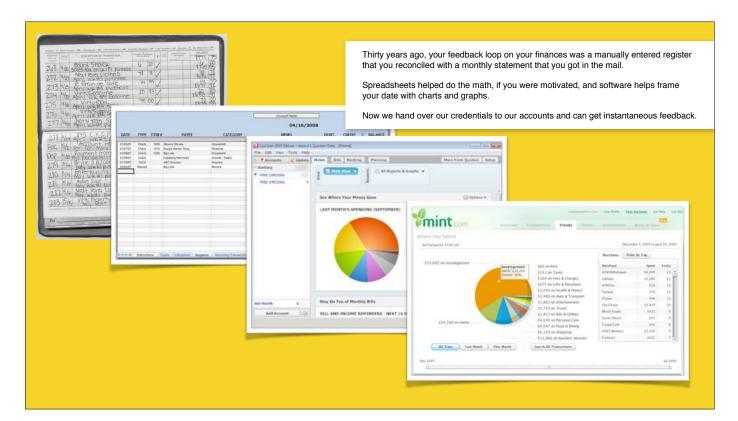




Feedback

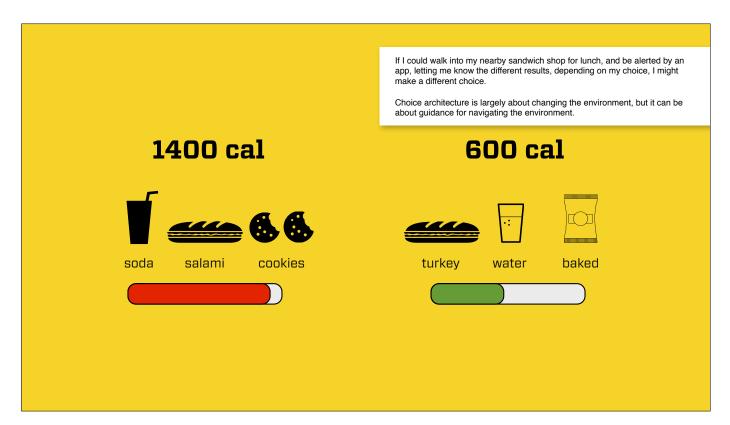


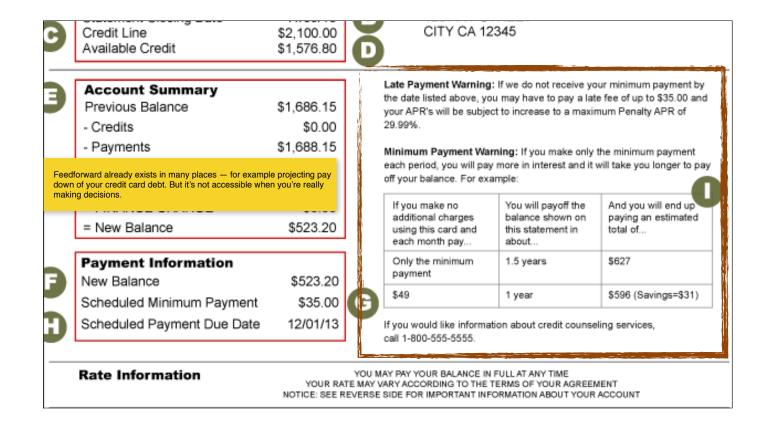


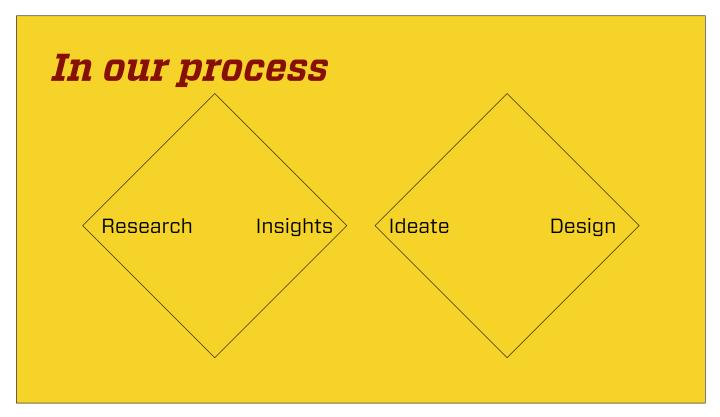


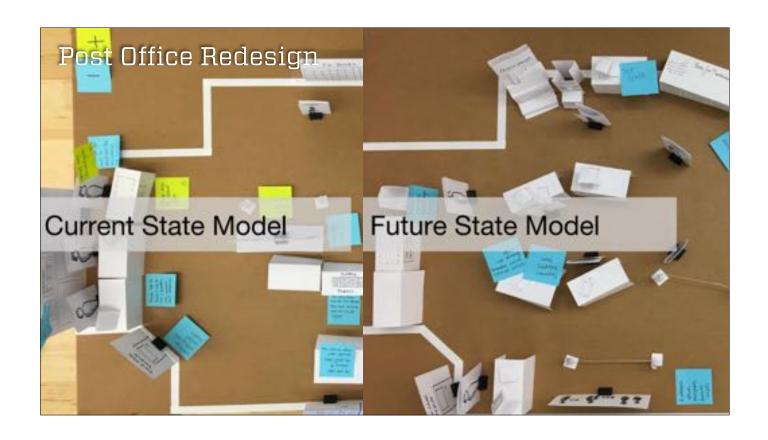
Feedback is still a response after an action—after a decision or behavior has been made. As we get "smarter" with our services, we will present **feedforward**, guidance at the point of a decisions to engage in a behavior, such as making the right choice on a menu in a fast food restaurant.

Feedforward









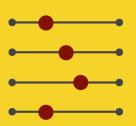




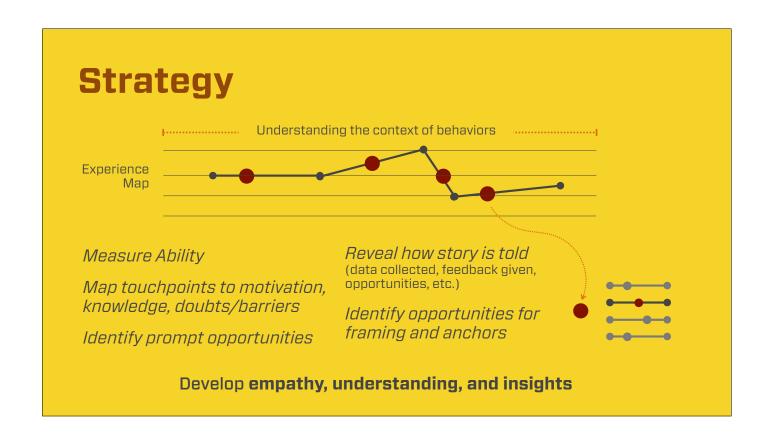
Research

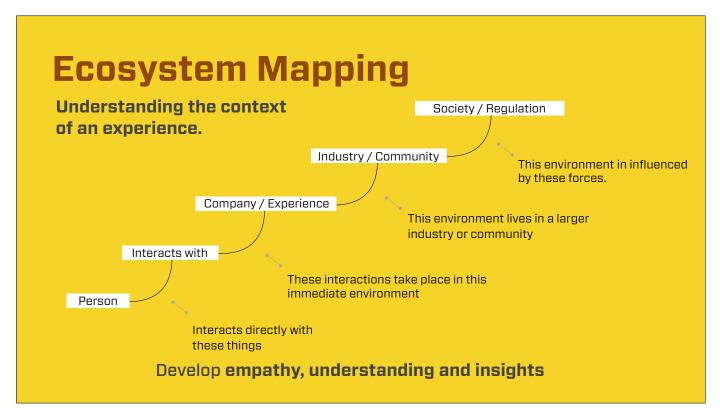
Mental models and personas with a behavioral profile

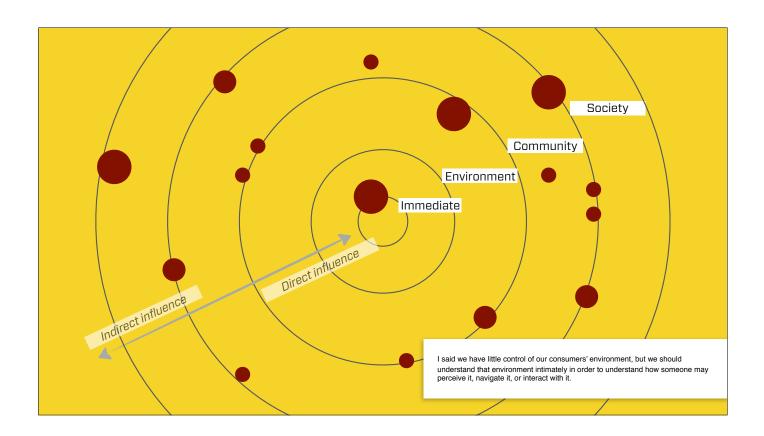
Knowledge (i.e. awareness and understanding)
Motivation
Ability
Doubts/Barriers (i.e. security issues)



What are people thinking, feeling, doing?





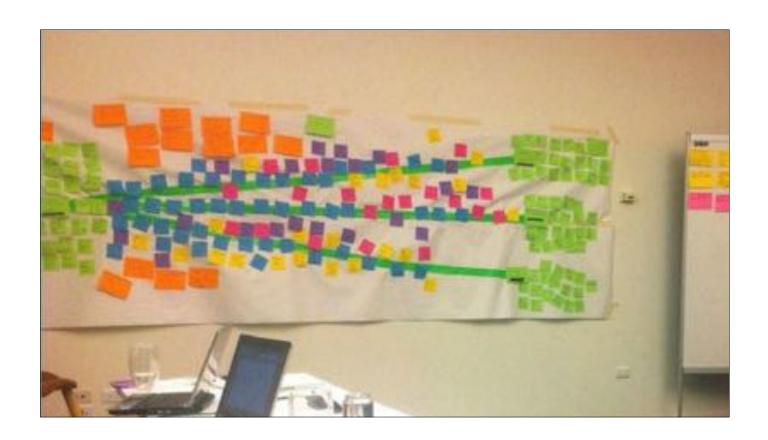


Backcasting

By means of a participatory process, backcasting asks: "if we want to attain a certain goal, what actions must be taken to get there?"

"...a method in which the future desired conditions are envisioned and steps are then defined to attain those conditions, rather than taking steps that are merely a continuation of present methods extrapolated into the future."

Backcasting method developed by John B. Robinson, 1982



O•B•I Backcasting

Outcome

(future state achieved by behaviors)

Behaviors

(required to achieve outcome)

Interactions

(that can support the behaviors)

determine this...

to identify these...

...in order to know what to design

Insight Combination

Insight combination is a method to quickly generate a lot of design ideas and explicitly tie these ideas to contextual research and the cultural nuances of your target audience. Insight combination leverages *forced provocation*—the ability to constantly ask and answer "what if" without fear of critique.

Insights from contextual research combine with trends and patterns to form design constraints that drive "what if" questions.

See more at: https://www.wickedproblems.com/5_insight_combination.php#sthash.bKOLZsF3.dpuf

Insight Combination

An insight is a clear, deep, meaningful perception into human behavior in a particular design context.



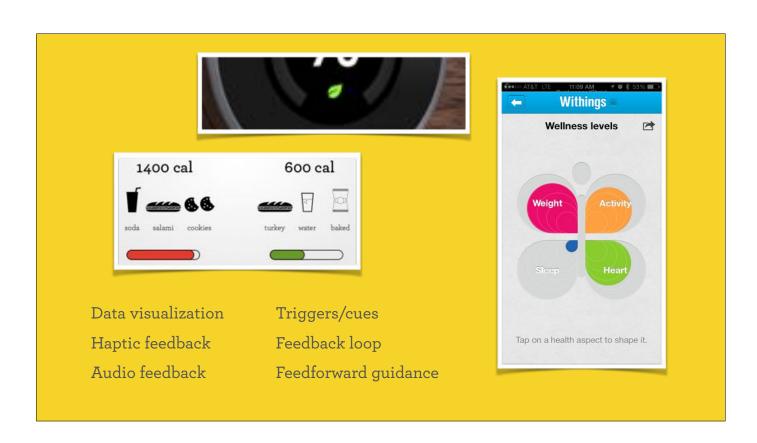
A design pattern (pull-down to refresh) or trend (sharing economy) describes a possible solution to a problem, based on problem /solution sets in other contexts.

Time-boxed ideation

See more at: https://www.wickedproblems.com/5_insight_combination.php#sthash.bKOLZsF3.dpuf

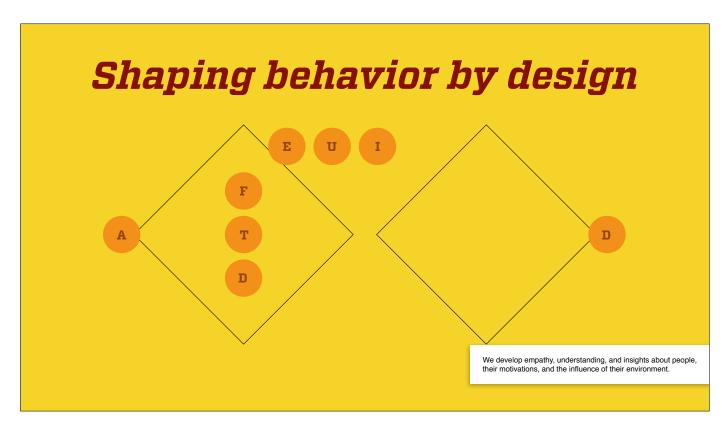


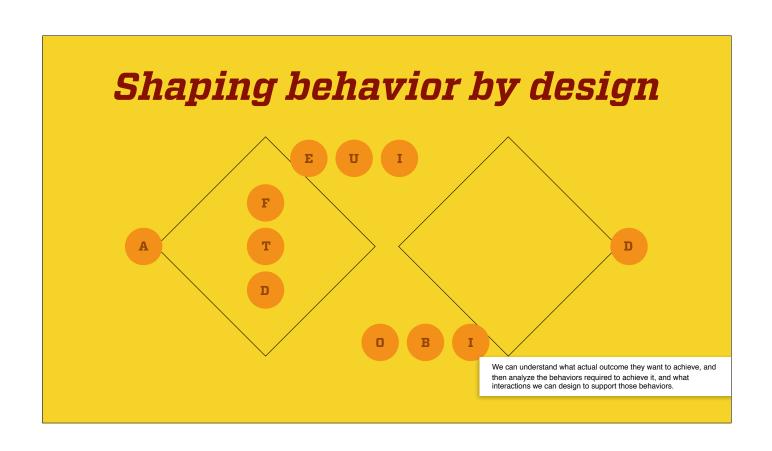


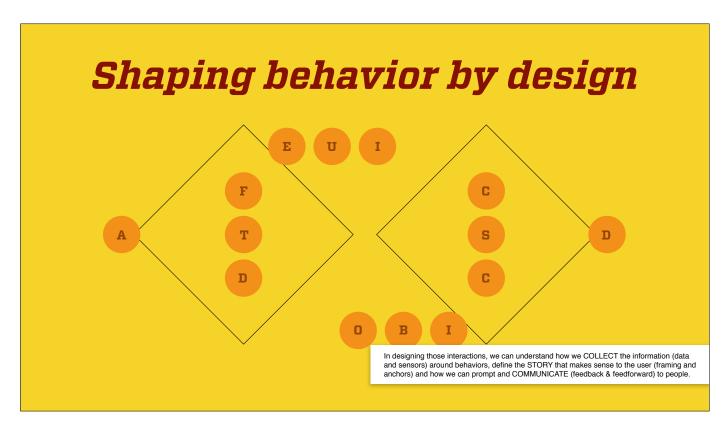


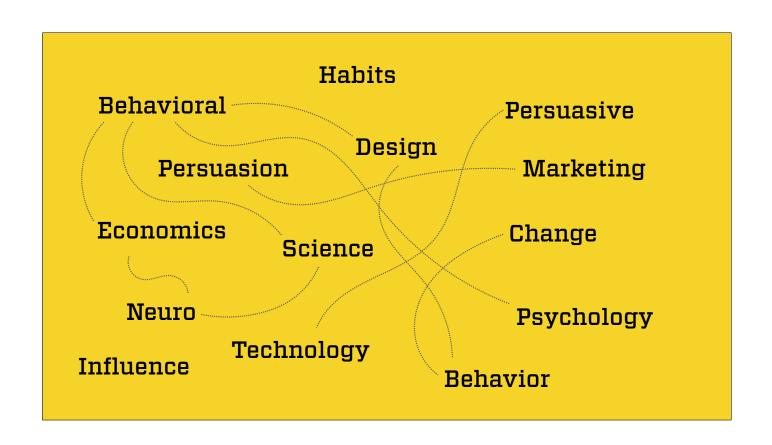


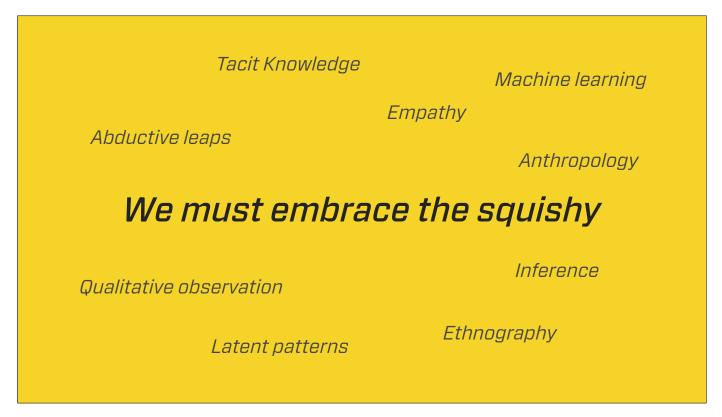












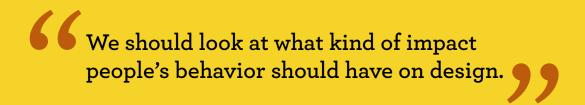
Behavior change is a system, experienced over time across many different touchpoints, with many different decisions, in a complex environment.

My Jawbone is telling me I have to go to bed. Not sure which is more silly - that sentence or the fact I'm now going to bed.

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***3.20 PM - 13 Oct 2014



—Paola Antonelli



THANK YOU!

shaping behavior, by design

behavioral design at scale

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@chrisrisdon

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