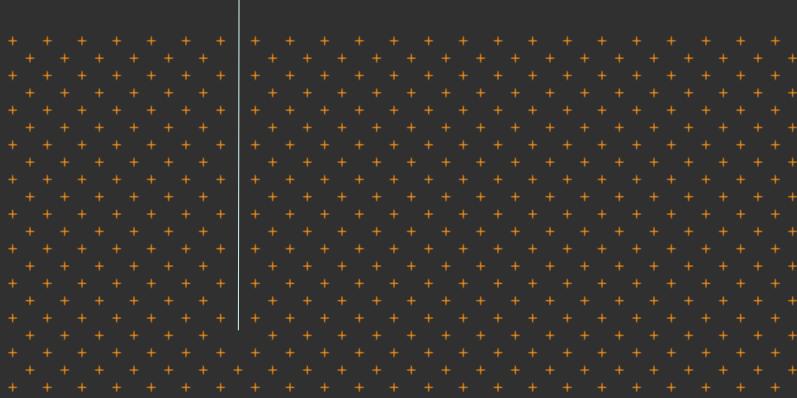
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## Day 2

# Fundamentals of Human-Centered Design

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## Regroup: Reconnect + Review



## Welcome to Day 2!

## How's everyone doing?

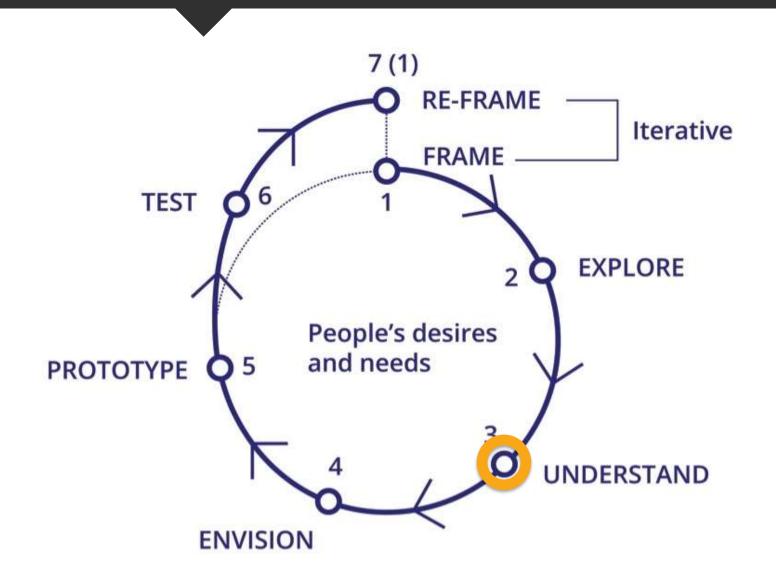
Any thoughts since yesterday?

Reconnect + Review	Day 2 Agenda
	Regroup: Reconnect + Review
	UNDERSTAND: Insight Synthesis
	Break
	ENVISION: Idea Generation
	Lunch 12:00-1:00
	ENVISION: Prioritizing Ideas
	ENVISION: Visualizing Concepts
	Break
	PROTOTYPE: Learning by Making
	Reflect: Debrief + Preview
	Wrap up 4:00

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## UNDERSTAND: Insight Synthesis

### **HCD Process Revisited**



# Insight Synthesis: A Definition

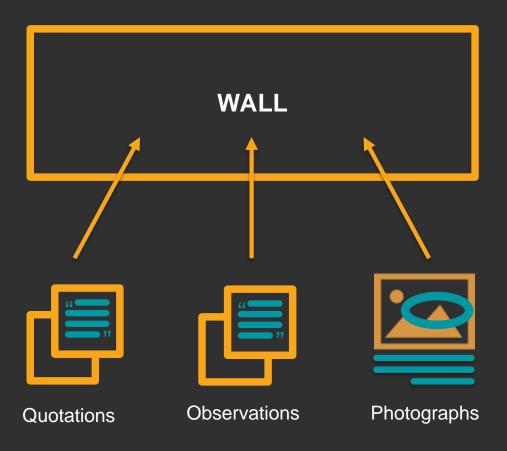
The process of uncovering the meaning behind data collected about people's needs.

In order to bring clarity to complex data sets and identify useful insights and patters, we must be organized and adaptable.

## **Data Processing**



## Data Sharing



## **USAJobs Synthesis**



## **Synthesis Process**

#### 1. Extract Takeaways

Review your notes and photos, and pull out any comments, quotations, or observations that could be important, and put them on sticky notes—one per sticky.

#### 2. Categorize & Label

Share your data with your group by placing your sticky notes together on the wall. Sort similar takeaways into clusters. Iterate, refine, and give each cluster a label.

#### 3. Articulate Insights

Discuss the deeper meaning and design opportunities suggested by the themes emerging from your data and distill each into a descriptive statement or "insight."

## **Synthesis Overview**



1. One person places and describes a single data point.

## **Synthesis Overview**



## Synthesis Overview



## Meaning is generated by asking questions like:

- What is this saying about a particular context?
- What caused or prompted the person to think/say this?
- If I read between the lines, does it speak to something larger?
- What about this situation would lead a person to say this or do this? (Go back and remember the context for this moment)

## **Synthesis Overview**

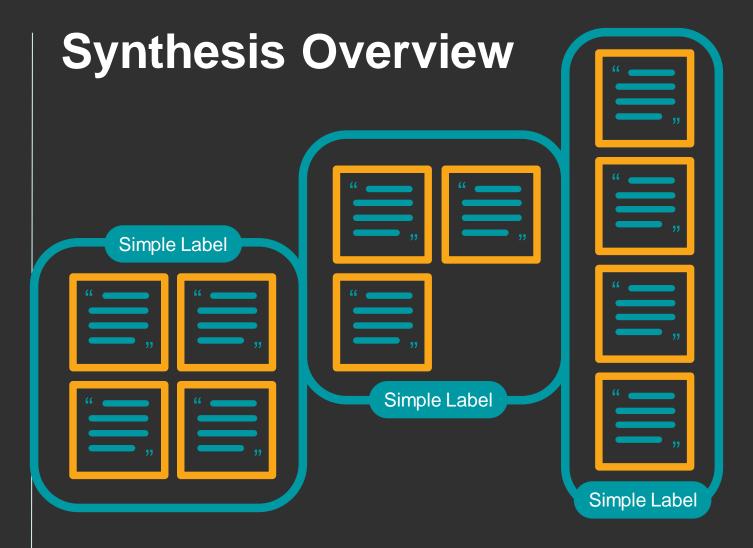


## **Synthesis Overview**



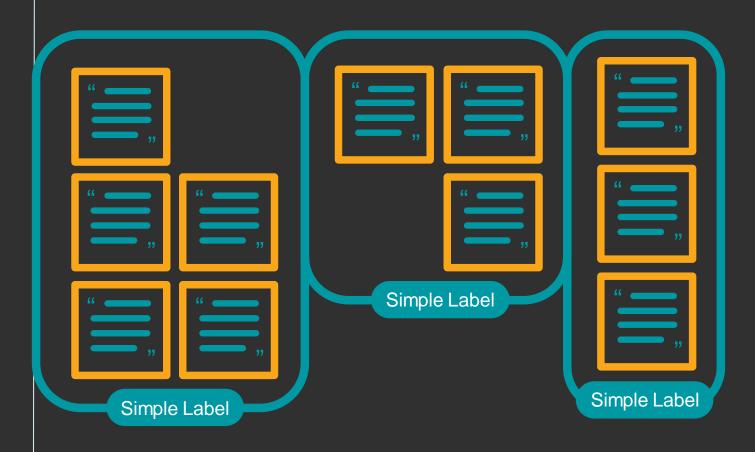
## **Synthesis Overview**





3. As they take shape, **label each cluster** with a brief phrase. Think: "This relationship has something to do with \_\_\_\_."

## **Synthesis Overview**



4. Discuss, rearrange, and re-label as groupings emerge.

## **USAJobs Synthesis: Step 2**

"Is this website made so complicated so people won't apply for jobs? USAJOBS is the most complicated system I have ever used. It is very daunting to spend that much time applying without ever getting a response."

"No I am not receiving help. I search on my own...Where is there help? That is one of the major complaint-there is no help to find"

"Applying for Federal jobs is going to be a long drawn out process and you will have your heart broken at the end of it."

"If you have questions about USAJOBS you have to figure it out on your own. I check with social media to get an understanding of the website."

"I do search on my own in USAJOBS but what I have experienced - I may be looking for a physical science technician but it may not always be listed as physical science- if I type that in it will limit me and i could not get the right results"

Single transcribed data point.

"In USAJOBS a lot of language is extremely confusing, the structure of job announcements is not user friendly, interaction with our agency is clunky and we lose applicants along the way."

"I don't know what keywords to use since there are so many"

"Usually when I hear i didn't make the list for consideration I don't care anymore. I tried that, you can't get in touch with anyone for an explanation. When you get through to someone they don't have answers for you."

## **USAJobs Synthesis: Step 2**

#### **Arduous Process**

- "Usually when I hear i didn't make the list for consideration I don't care anymore. I tried that, you can't get in touch with anyone for an explanation. When you get through to so meone they don't have answers for you."
- "Applying for Federal jobs is going to be a long drawn out process and you will have your heart broken at the end of it."

#### Finding Help

- "No I am not receiving help. I search on my own...Where is there help? That is one of the major complaint-there is no help to find"
- "If you have questions about USAJOBS you have to figure it out on your own. I check with social media to get an understanding of the website."

#### Feeling Lost

- "I do search on my own in USAJOBS but what I have experienced I may be looking for a physical science technician but it may not always be listed as physical science- if I type that in it will limit me and i could not get the right results"
- "I don't know what keywords to use since there are so many"

#### Lack of Guidance

- "Is this website made so complicated so people won't apply for jobs? USAJOBS is the most complicated system I have ever used. It is very daunting to spend that much time applying without ever getting a response."
- "In USAJOBS a lot of language is extremely confusing, the structure of job announcements is not user friendly, interaction with our agency is clunky and we lose applicants along the way."

## **USAJobs Synthesis: Step 3**

Applying for a government job is a long and arduous process which is made even worse because the government doesn't set user expectations up front about what they need to apply and how long it will take them.

#### Arduous Process

"Usually when I hear i didn't make the list for consideration I don't care anymore. I tried that, you can't get in touch with anyone for an explanation. When you get through to someone they don't have answers for you."

"Applying for Federal jobs is going to be a long drawn out process and you will have your heart broken at the end of it."

USAJOBS falls short of applicant expectations because it presents itself as a one-stop shop for federal hiring, but in reality it is laid on top of a disjointed process spread among 129 agencies, which disorients, frustrates, and misleads users

#### Finding Help

"No I am not receiving help. I search on my own...Where is there help? That is one of the major complaint-there is no help to find"

"If you have questions about USAJOBS you have to figure it out on your own. I check with social media to get an understanding of the website."

#### Feeling Lost

"I do search on my own in USAJOBS but what I have experienced - I may be looking for a physical science technician but it may not always be listed as physical science- If I type that in it will limit me and i could not get the right results"

"I don't know what keywords to use since there are so many" USAJOBS does not communicate eligibility and qualifications in a w ay that is meaningful to individual applicants, nor explain that these are prerequisites to being considered; applicants apply to jobs they can't get resulting in increased applications, w orkload for the government and frustration for multiple users in the system

#### Lack of Guidance

"Is this website made so complicated so people won't apply for jobs? USAJOBS is the most complicated system I have ever used. It is very daunting to spend that much time applying without ever getting a response."

"In USAJOBS a lot of language is extremely confusing, the structure of job announcements is not user friendly, interaction with our agency is clunky and we lose applicants along the way."

## What's a Design Insight?

A single phrase that exhibits a deeper understanding of a person, a thing, or situation and embodies opportunities for design.

## What *Isn't* a Design Insight?

Data
 (Insights call for action.)

Observations
 (Without the motivation or need suggested by the observation)

#### Wishes

(Ask people what they want, and they'll tell you "a faster horse.")

## What is a Design Insight?

- Context
   Explain background
- The challenge
   Explain the barrier/s
- The cause
  What is causing the problem
- Motivation
   What drives people's action?

## **Synthesis Worksheet**

# Break

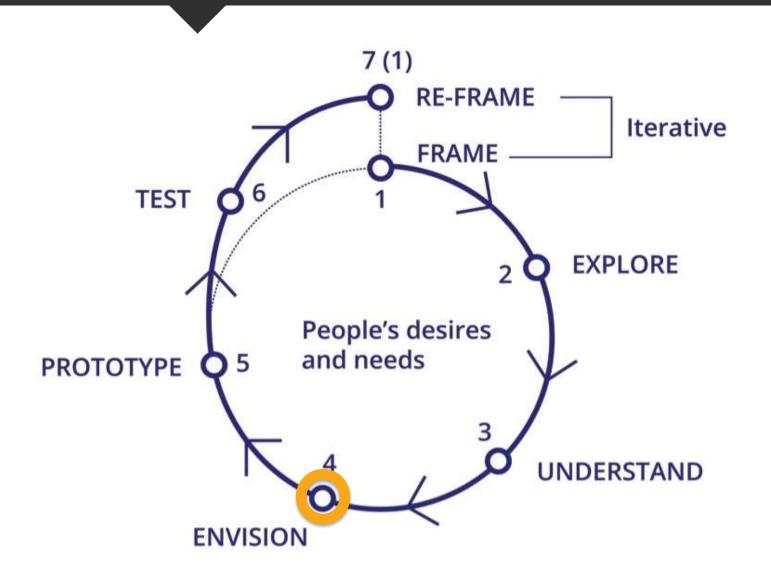
15 min.

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# **ENVISION:** Idea Generation



### **HCD Process Check-In**



## Ideation: A Definition

Ideation is the creative process of generating, developing, and communicating new ideas within a design framework.

Envisioning new futures requires building on other people's ideas and "green housing" ideas that may feel unfinished or incomplete at the time.

# Ideation: The Process

- Choose 3 insights with your group
- Create 3 HMW for the 3 insights use the template
- Individually generate ideas for the HMWs
- As group use the matrix to place the HMW and your individual ideas
- Explain your ideas to your team
- Second round of Brainstorming

# The Spirit and Mindset of Ideation

- Yes, and...
- Defer judgment
- There is no right answer
- Diversity is good
- Work visually when possible
- Everything is temporary
- Take risks! Have fun!
- The goal is quantity not quality!

# **Ideation Process: Select Insights**

- 3 insights
- Combine if needed

# **Ideation Process: Create HMW**

# Articulating Insights as Questions for Ideation

How might we...?

# Articulating Insights as Questions for Ideation

# How might we...?

Action/goal oriented

## Articulating Insights as Questions for Ideation



Action/goal oriented

Open-ended potential

## Articulating Insights as Questions for Ideation



## **Articulating Insights as Questions for Ideation**

## How might we...?

[Good question—let's brainstorm!]

	ramed Challenge Statement
	Given that
(context, situation	
(persor	how might we (help)
	do/be/feel/achieve
(immediate go	
	So they can
(deeper, broader emotional go	

## **Free form Brainstorming**

Individually Create ideas for each of the HMW

As many as possible

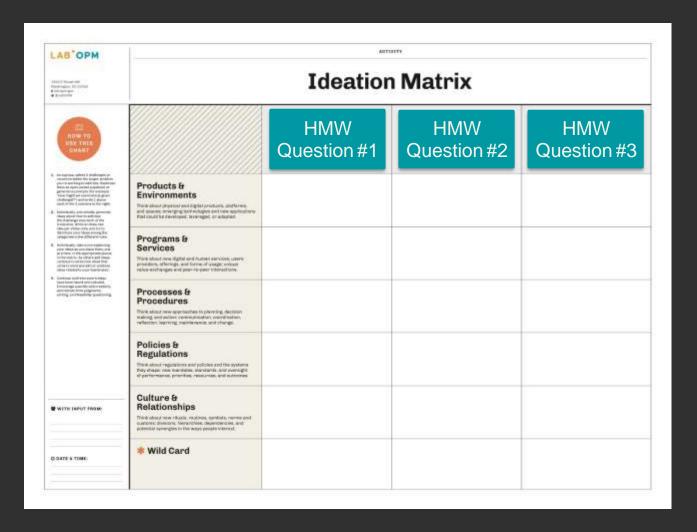
#### **Idea Generation**

### **Ideation Process**

LAB*OPM	Ideation Matrix				
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	Programs & Services Their stand are signed and funded pervices, users and their standard area of the standard area of their standard area				
	Processes & Procedures True about new approaches to proving decision saling and patter communication county feature, reference before and and account and along the county of the county				
	Policies & Regulations This shall regulation and the system through the control of the system of the				
W WITH INPUT HANGE	Culture & Relationships There also a non-filed is rections, special is remove and processing and a non-filed in the color of the color				
D DATE & TIME	* Wild Card				

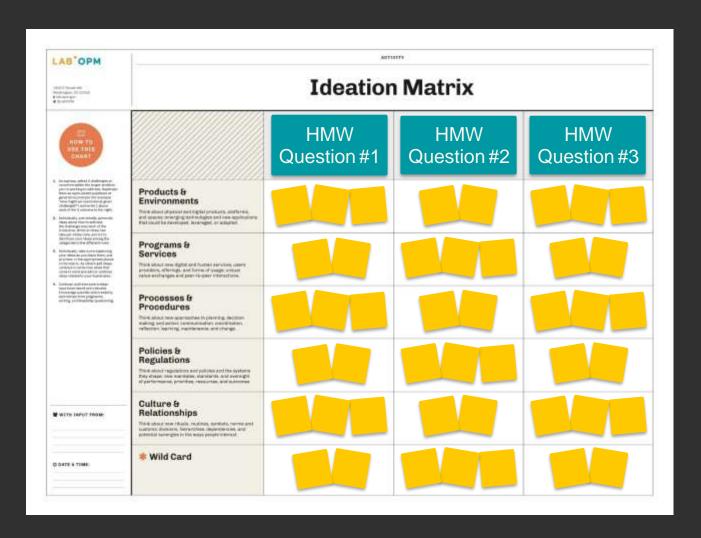
#### **Idea Generation**

### **Ideation Process**



#### **Idea Generation**

### **Ideation Process**



### **Free form Brainstorming**

- Do a second round of brainstorming as a group
- Fill the gaps in the matrix

# Lunch

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# **ENVISION:**Prioritizing Ideas



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# **ENVISION:**Design Criteria

### **Prioritization Matrix**



### **Prioritization Process**

### 1. Define "Important + Difficult"

As a team, discuss what your specific **definitions** of importance and difficulty are.

#### 2. Rank Ideas by Importance

Then take your ideas and force rank them across the matrix from least to most **important**. This will require discussion and collaboration.

### 3. Rank Ideas by Difficulty

Once in place on the horizontal axis, do not move your sticky notes horizontally. While keeping them in order, move them up or down depending on their **difficulty** in relation to one another.

### Do it!

#### 1. Define "Important + Difficult"

As a team, discuss what your specific **definitions** of importance and difficulty are.

#### 2. Rank Ideas by Importance

Then take your ideas and force rank them across the matrix from least to most **important**. This will require discussion and collaboration.

### 3. Rank Ideas by Difficulty

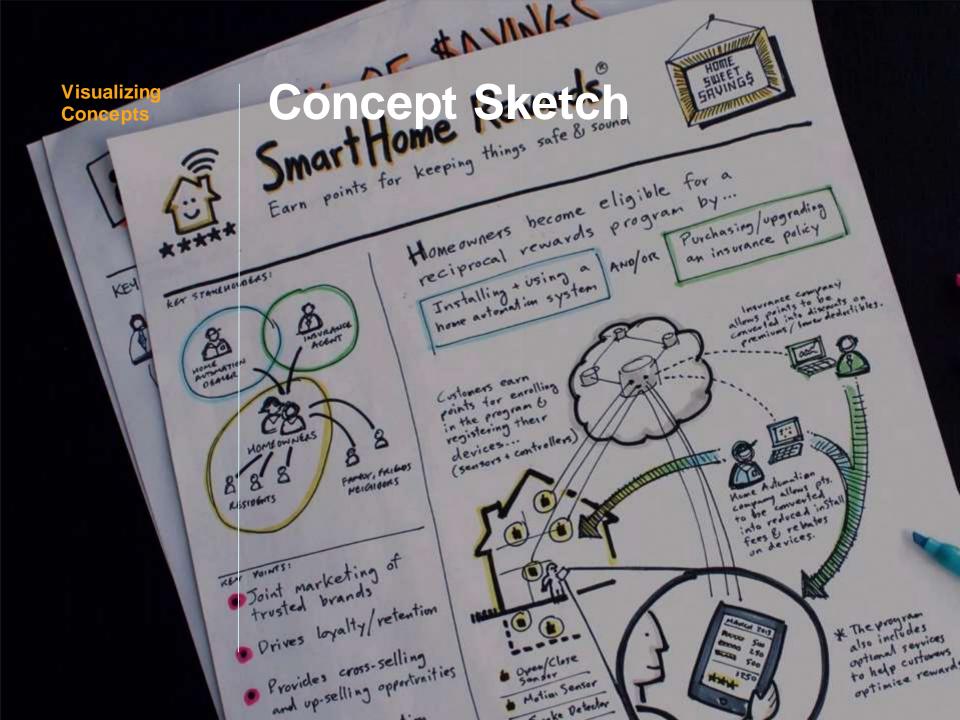
Once in place on the horizontal axis, do not move your sticky notes horizontally. While keeping them in order, move them up or down depending on their **difficulty** in relation to one another.

### **Prioritization Matrix**



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# ENVISION: Developing Concepts



Visualizing Concepts

## **Concept Poster**

# Break

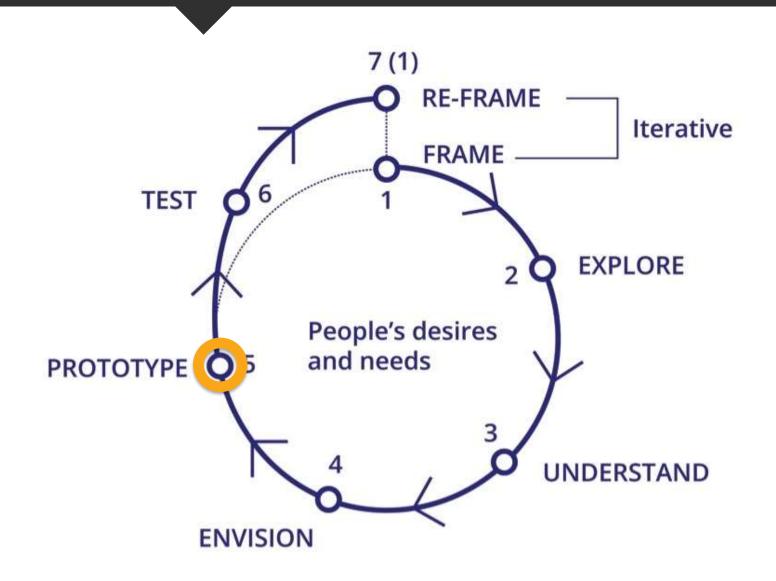
15 min.

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# PROTOTYPE: Learning by Making



### **HCD Process Check-In**



## Prototype: A Definition

A first simple model, draft, or version of a design or an idea that tests a concept or process in the real world.

### Why to Prototype?

- Tests designs in the real world.
- Manages the risk of misplaced investment in the wrong solution.
- Makes the abstract and intangible specific and concrete.
- Makes ideas accessible for interaction and critique by others.
- Enables collaboration & co-design

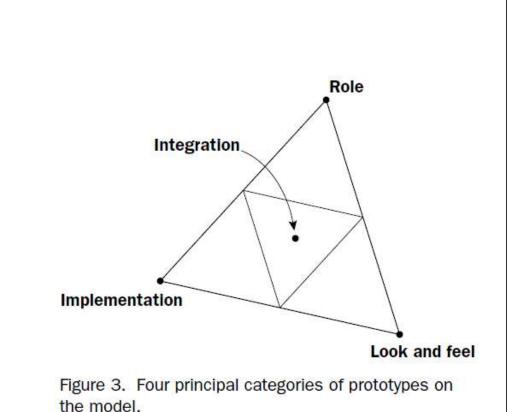
### How to Prototype?

- Don't waste time on little details.
   Don't waste \$ on fancy materials.
- Work with what you have on hand to create props, personas, and Frankenstein monsters, whatever you need to do to see and feel what's working and what's not.
- Seek to reveal, not conceal, flaws.

### How to Prototype?

- Simple models or mock-ups will work for physical or digital designs, but less tangible services or experiences will need to be tested through performance, storyboarding, or other narratives.
- Test pieces and parts of your design when the whole is not testable. Mix levels of fidelity, focusing on critical components.

## What to prototype?



## Prototyping Examples: Physical Models + Mockups



## Prototyping Examples: Paper Prototypes



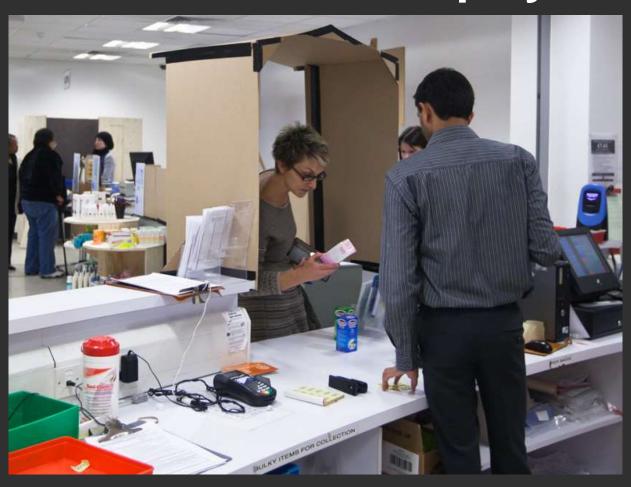
## Prototyping Examples: Storyboards + Journeys



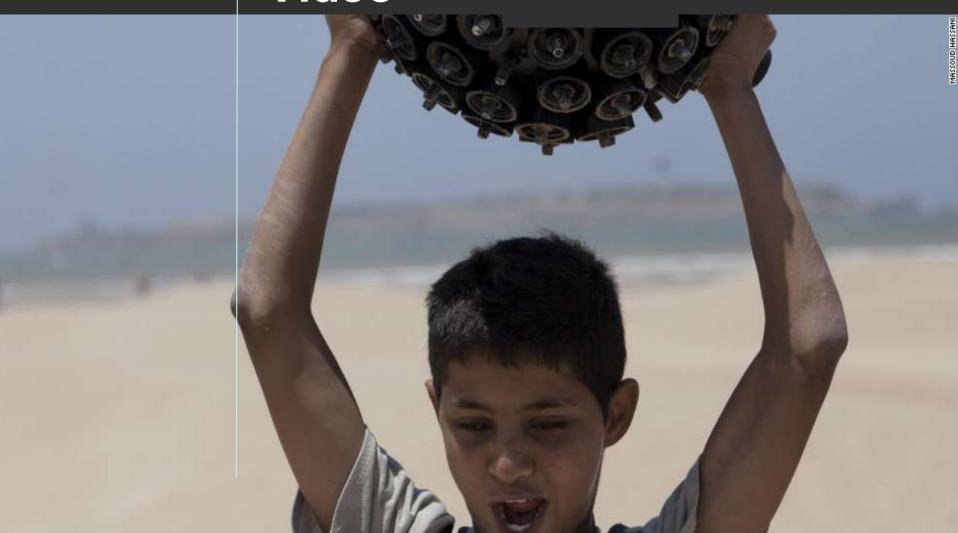
## Prototyping Examples: Experience Models + Maps



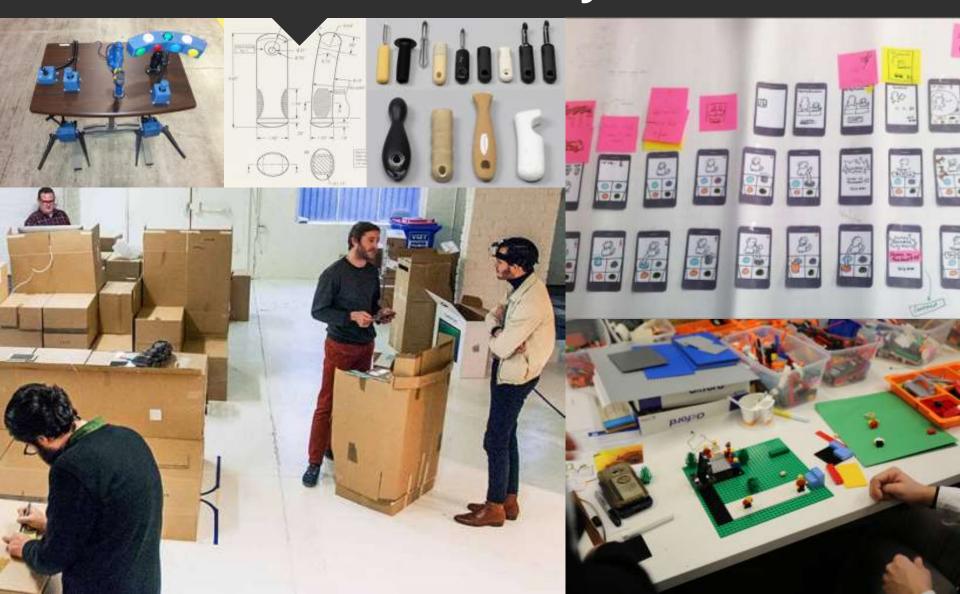
## Prototyping Examples: Performance + Roleplay



## Prototyping Examples: Video



## Time to build your own!



### **Prototyping Process**

### 1. Decide What to Prototype

Discuss which components of your design concept are particularly critical to its success and value. Determine which of these elements you need to learn more about through real-world prototyping and testing.

### 2. Develop Your Prototype

Create a prototype that models one or multiple aspects of your design concept. Use the materials provided or seek out your own. Get creative and be resourceful.

### 3. Test Out Your Prototype

Guide someone else (not in your group) through an interaction with your prototype. Observe what's working and what's not. Consider how to iterate and refine.

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# Reflect: Debrief + Preview



### Fieldwork Debrief

### **Daily Debrief**

### What you'd think?

- I learned...
- I wonder...
- I was surprised...
- I hope to...
- I plan to...

### What's up next?

- More work on your designs tomorrow.
- Think about what + how to prototype.
- Consider bringing prototyping materials.
- We'll aim to wrap up at 3pm tomorrow.

Rest up, and we'll see you tomorrow!

# Thank You

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