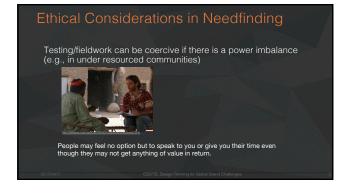


Outline

- Ethical considerations in needfinding
- Inferring insights
- Point of views



Ethical Considerations in Needfinding

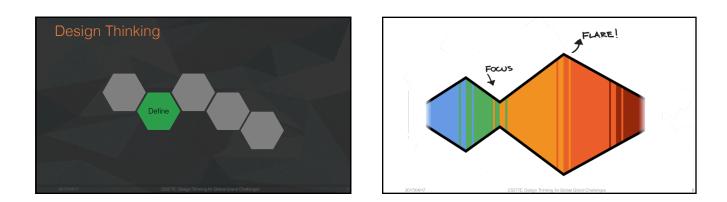
Testing/fieldwork can be coercive if there is a power imbalance (e.g., in under resourced communities)

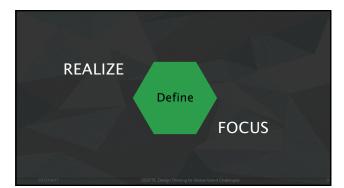
CHILDREN AND FAMILIES "AT PROMISE"

"the 'at-risk' label is highly problematic and often implicitly racist and classist... [it] locates problems in individuals, families, and communities, rather than in institutional structures that create and maintain inequality."

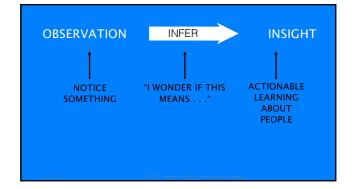


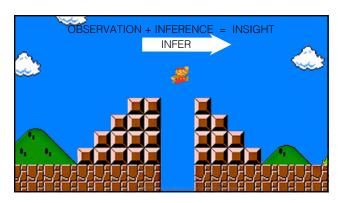


















The presumed mindset: ART IS DEEPLY PERSONAL.

ART IS FASHION ON THE WALL.



FOCUS ON *ONE* MEANINGFUL CHALLENGE

Focus by Writing a "Point of View'

A unique, concise reframing of the problem that is grounded in user needs & insights.

Focus by Writing a "Point of View"

WE MET . . . (user you are inspired by)

WE WERE AMAZED TO REALIZE... (insight—verb reflecting user needs)

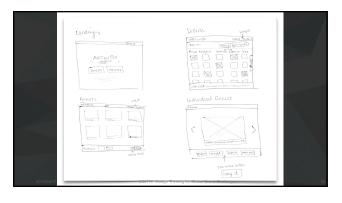
IT WOULD BE GAME-CHANGING TO. . . (Synthesized statement to leverage in designing solution. NOT just a reason for the need!)

WE MET . . .

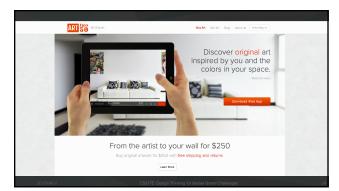
a guy in his twenties with a good new job and a new apartment

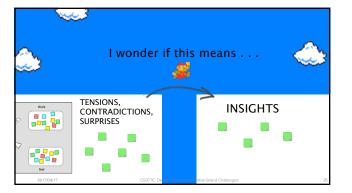
WE WERE AMAZED TO REALIZE . . . art is fashion on the wall: it's about what other people are going to think of you

IT WOULD BE GAME-CHANGING TO . . . help buyers cut through the paralysis of doubt









Characteristics of A Good Point of View

- Provides focus & frames the problem
- Inspires your team & people you meet
- Fuels brainstorms
- Gives a reference to evaluate competing ideas
- Saves you from the impossible task of creating concepts that are all things to all people
- Revisit/reformulate as you learn by doing

Point of View

WE MET . . . (extreme user you are inspired by)

WE WERE AMAZED TO REALIZE (what did you learn that's new? What is their need?)

IT WOULD BE GAME-CHANGING TO . . . (frame up an inspired challenge for yourself – the insight.) (don't dictate the solution.)



DO IT NOW:

UNPACK: note the say, do, think, & feel INSIGHTS: infer from observations POINT OF VIEW: 1 written sentence

We met X

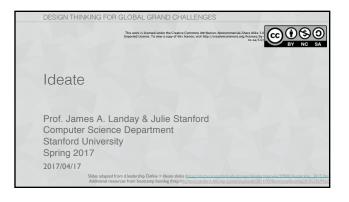
We were amazed to realize... It would be game-changing to...

DO IT NOW FOR YOUR PROJECT:

UNPACK: done already INSIGHTS: infer from observations POINT OF VIEW: 1 written sentence

We met X

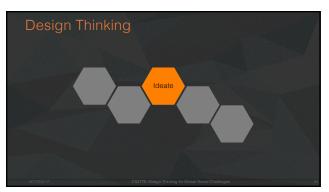
We were amazed to realize... It would be game-changing to...

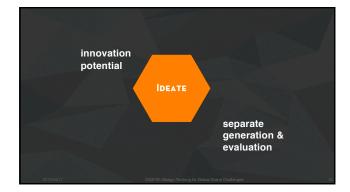


Outline

- Ideate
- Exercise
- How Might We...?
- Selecting good problems & solutions
- Brainstorming solutions





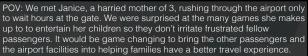




2017/04/17



"Might" lets you defer judgment helps people to create options freely opens up more possibilities





POV: We met Janice, a harried mother of 3, rushing through the airport only to wait hours at the gate. We were surprised at the many games she makes up to to entertain her children so they don't irritate frustrated fellow passengers. It would be game changing to bring the other passengers and the airport facilities into helping families have a better travel experience.

Break POV into pieces HMW entertain kids? HMW slow a mom down?

Amp up the good/Remove the bad HMW separate kids from fellow passengers?

Explore the opposite HMW make the wait the most exciting part of the trip?

Question an assumption

IW entirely remove the wait time at the airport?

POV: We met Janice, a harried mother of 3, rushing through the airport only to wait hours at the gate. We were surprised at the many games she makes up to to entertain her children so they don't irritate frustrated fellow passengers. It would be game changing to bring the other passengers and the airport facilities into helping families have a better travel experience.

Go after adjectives

HMW we make the rush refreshing instead of harrying?

Identify unexpected resources

HMW leverage free time of fellow passengers to share the load?

Create an analogy from need or context HMW make the airport like a spa?

Change a status quo

HMW make playful, loud kids less annoying?

Anatomy of a Strong HMW Question

- Who
- What
- When
- Where
- Why
- Best to have at least 3 W's in a good HMW question



clarity 👓

How might we...

- make people feel confident that they understand all the relevant information?
- give people clarity about their current reality?
- insure that people understand how Connect works?



new beginning <u>س</u>

How might we...

- make people feel like LifeMoves is the start of something great not scary?
- help launch people into their new housing feeling confident that they won't fall in a hole?
- help clients remain capable as they face the same challenges?



competence ★

How might we...

- make people feel confident that they will be able to engage with Connect?
- make people who are effective at solving small problems expand their abilities to long term competence?
- give people small wins that result in a feeling of confidence and hope in the face of large problems?

long term plan 🗗

How might we...

- insure that we remain connected over the long term as phones and technologies change?
- help people create a long term plan?
- help people move from a low paid job to a career plan?
- help people assess the riskiness of their situation?
- balance long and short term thinking?

DO IT NOW:

Generate some HMW statements for your project!

POV: We met X. We were surprised to find Y. It would be game changing if Z.

Break POV into pieces Amp up the good/Remove the bad Explore the opposite Question an assumption Go after adjectives ID unexpected resources Create an analogy from need or context Change a status quo





Constraints Can Energize

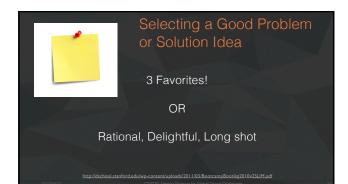
"How would you design it with the technology of 100 years ago?"

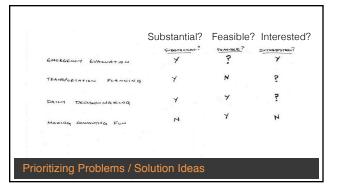
"What if we had to spend at least a million dollars?"

"Only ideas that would get you fired"

"All ideas must use magic."

http://dschool.stanford.edu/wp-content/themes/dschool/method-cards/facilitate-a-brainstorm.pdf





- Frequency want something that occurs often
- Density

 lots of people experience it
- Pain
- more than a small annoyance



Research/Analysis	
How big a problem is it? (market)	~*
Whose problem is it? (stakeholders)	22.2
What's already out there? (competition)	\mathbf{Y}
How are things done currently? (status quo)	
How can they be improved? (innovation)	

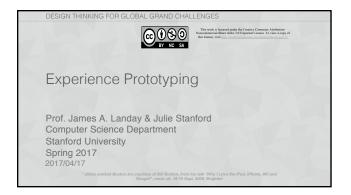


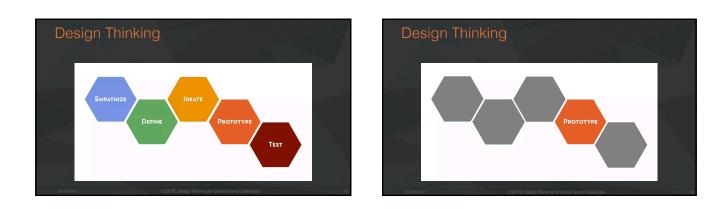
Dark Horse Idea

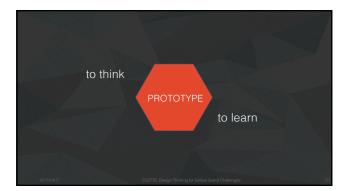
- explores a space that is risky, radical or orthogonal
- 2. Brainstormed after more traditional HMW/ideas
- 3. Possible to prototype & test (can't be infeasible)

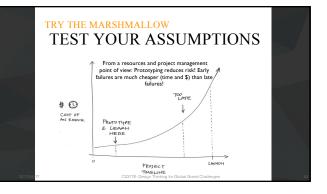
- Celebrate the success of the brainstorm, take a break, vote!
- Option 1: Heat map voting

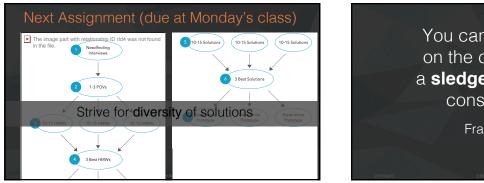
 Everyone starts with an unlimited number of votes (small dots)
 Then everyone gets 3 final votes on their absolute favorites (large dots) and 1 bonus dark horse vote
- Option 2: Category voting
 - Each person gets a specific number of votes (i.e., 5) Specific categories (Most feasible idea, Craziest idea, Best long shot, my favorite but improbable, short term solution, etc.)



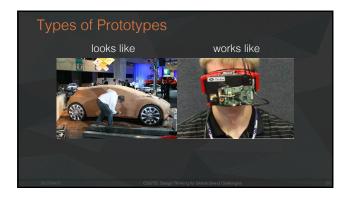


















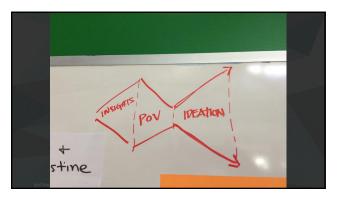


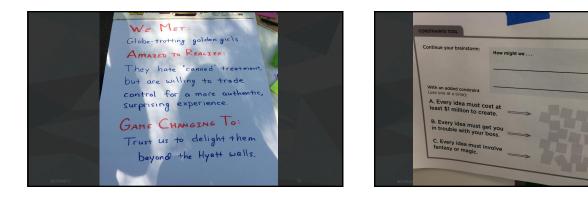
SCENE-PROPS-ROLES TOOL	
SCENE of the experience	Now do you not be shown you un the last the "new" wetrophonoses?
PROPS in the experience	what are the mough version of the respect
ROLES involved in experience	while an the rates of those this part to construct the those and the states of the states and the states of the states of the states and the states of the states o
2017/04/17	CS377E: Design Thinking for Global Grand Challenges

> what new information do you have about the user's **need**?

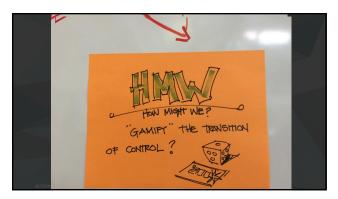
TEST

what new information do you have about how your **solution** addresses the need?

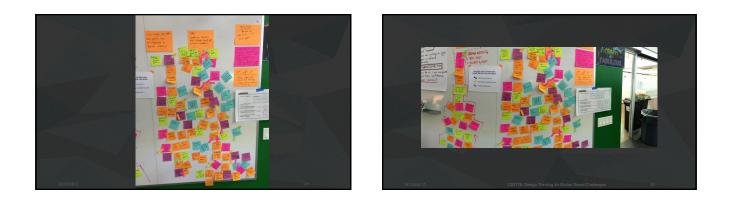




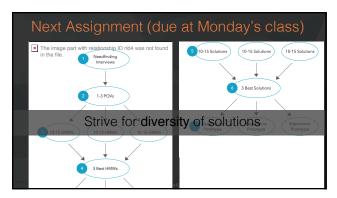












- Prototype to test an assumption
- Prototype can be a piece of idea rather than a complete solution
- Think of it as a needfinding technique

Experience prototyping allows us to try many ideas quickly & learn more about the problem & solution space (prototype to learn)

- Lecture
- Rapid Experimentation
- Project (due Monday at start of class) Flesh out POVs
 Create HMWs

 - Brainstorm solutions & select the best
 - Create/test experience prototypes for top 3 solutions
 Test each prototype with at least 1 target users

 - In presentation, get across what you learned!
 Class will be used to select the idea to move forward