







CS377E: Designing for Global Grand Challenges – Human-Centered Al Spring 2019
Prof. James A. Landay
Stanford University





FOCUS
ON *ONE*MEANINGFUL
CHALLENGE

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)

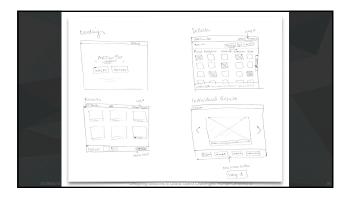
IT WOULD BE GAME-CHANGING TO...
(Synthesized statement to leverage in designing solution.
NOT just a reason for the need!)

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

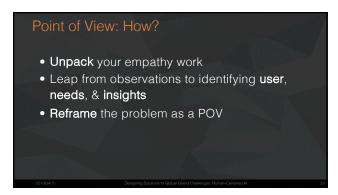
IT WOULD BE GAME-CHANGING TO . . . help buyers cut through the paralysis of doubt

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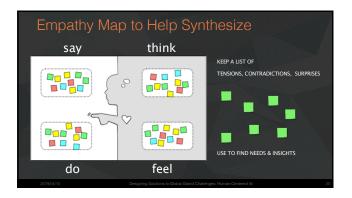




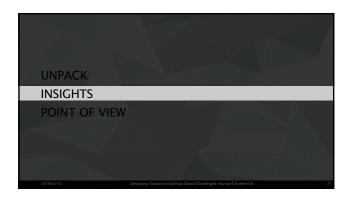


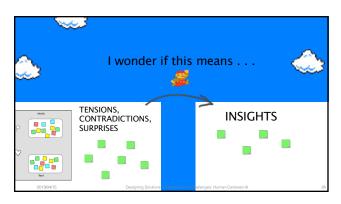




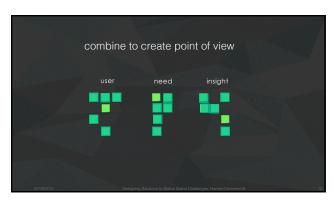


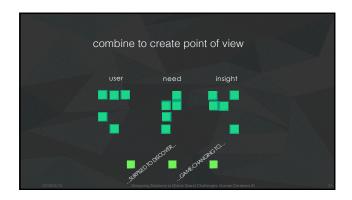


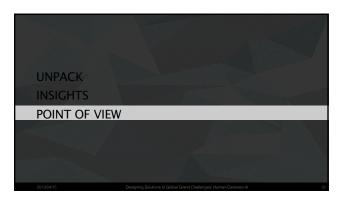












Point of View

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: done – use this to get to needs
INSIGHTS: infer challenge from your needs
POINT OF VIEW: 1 written sentence

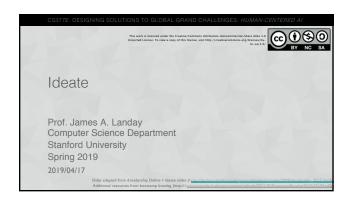
We met X
We were amazed to realize...
It would be game-changing to...

Point of View

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

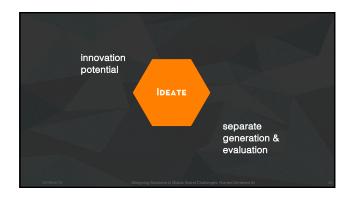
WE WERE AMAZED TO REALIZE . . .
(what did you learn that's new? What is their need?)

IT WOULD BE GAME-CHANGING TO . . .
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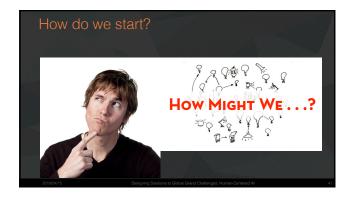












"Might" lets you defer judgment
helps people to create options freely
opens up more possibilities

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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

HMW entirely remove the wait time at the airport?

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Go after adjectives

HMW we make the rush refreshing instead of harrying?

Identify unexpected resources

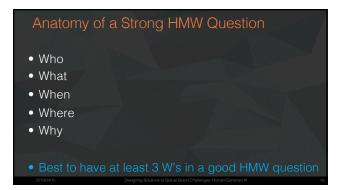
HMW leverage free time of fellow passengers to share the load?

Create an analogy from need or context

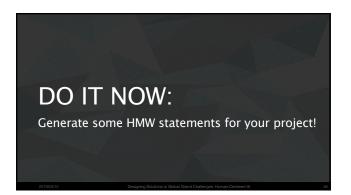
HMW make the airport like a spa?

Change a status quo

HMW make playful, loud kids less annoying?







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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



"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"

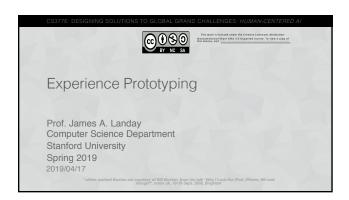
"All ideas must use magic."

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



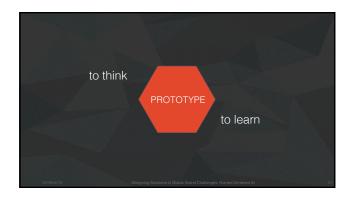
Option 1: Heat map voting
Everyone starts with an unlimited number of votes (small dots)
Then everyone gets 3 final votes on their absolute favorites (large dots) and 1 bonus dark horse vote

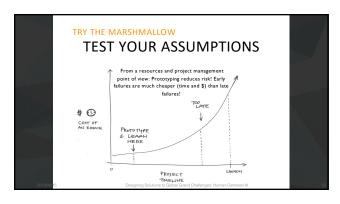
Option 2: Category voting
Each person gets a specific number of votes (i.e., 5)
Specific categories (Most feasible idea, Craziest idea, Best long shot, my favorite but improbable, short term solution, etc.)

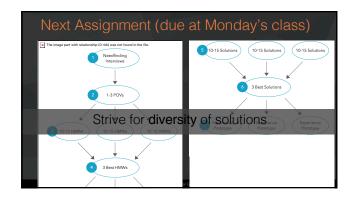












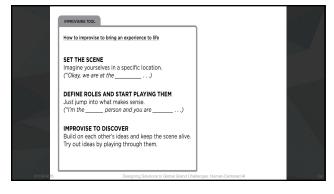


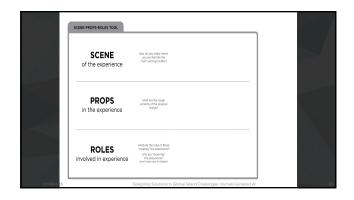
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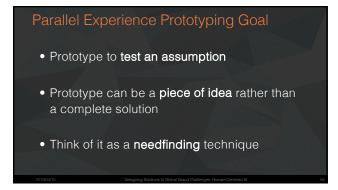


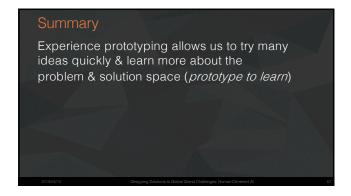












Project (due Monday at start of class) Flesh out POVs Create HMWs Brainstorm solutions & select the best Create/test experience prototypes for top 3 solutions Test each prototype with at least 1 target users In presentation, get across what you learned! Class will be used to select the idea to move forward