



#### THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

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# Empathy focused and human-centered design



Innovation is powered by a thorough understanding, through direct observation, of what people want and need in their lives and what they like or dislike about the way particular products are made, packaged, marketed, sold, and supported.

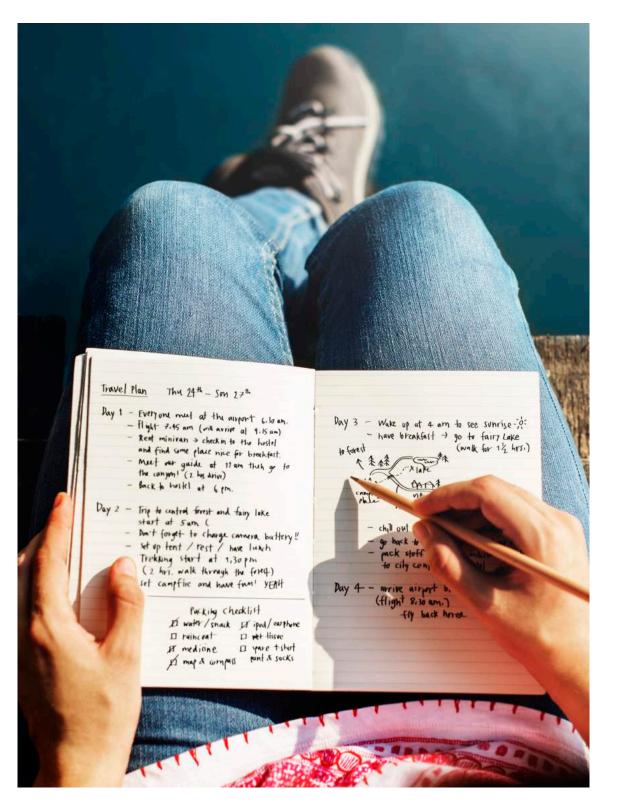
#### - Tim Brown



Let's pick a complex challenge to focus our efforts











**Extreme Users** 

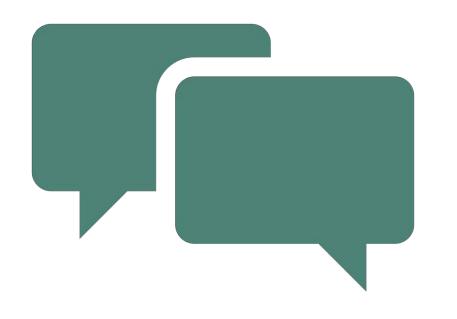


Bodystorming



What-Why-How





Don't judge

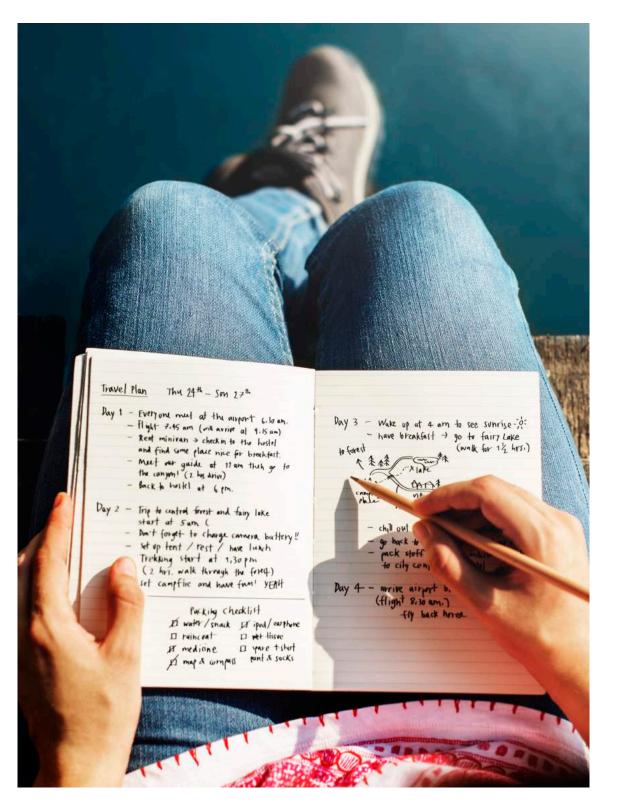
Ask probing questions

Be truly curious

Find patterns

Actively listen









**Extreme Users** 



Bodystorming



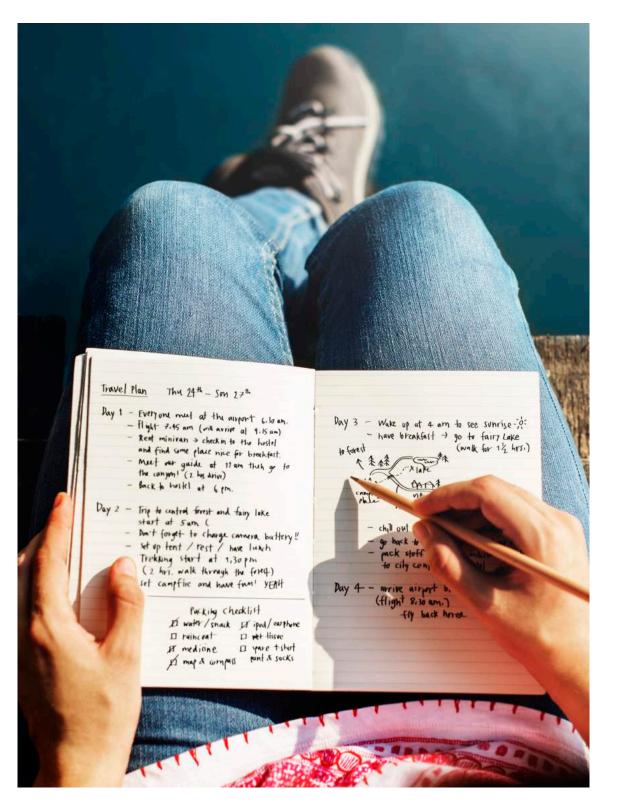
What-Why-How



# Extreme Users











**Extreme Users** 



Bodystorming



What-Why-How

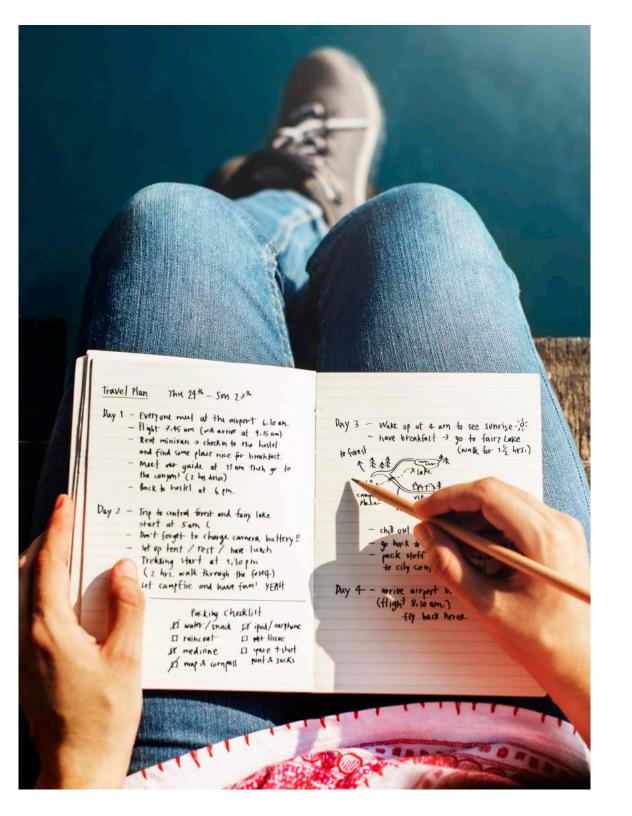


# Bodystorming



Designing an experience to physically experience a situation from someone else's perspective









**Extreme Users** 



Bodystorming



Observation



#### Observation



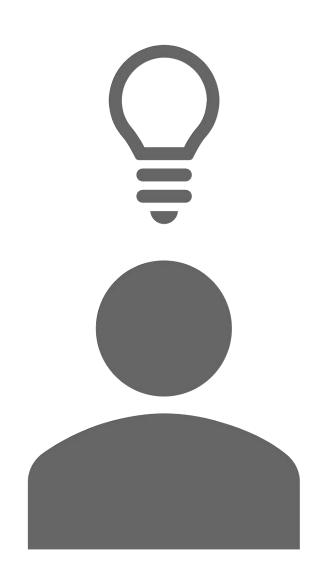
Concrete Observations
What do I see happening?

#### My Understanding

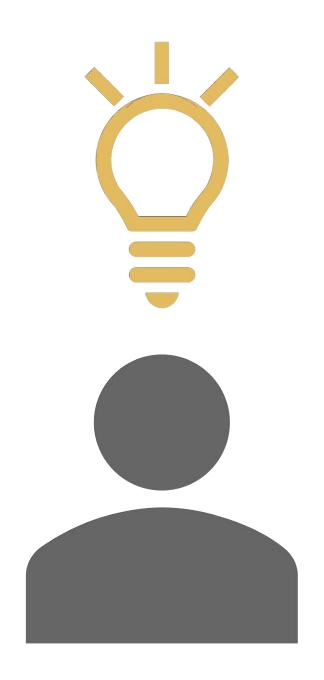
How is it happening (how are people performing tasks, how are people feeling, how does this activity/topic affect people?

Interpretation
Why is it happening this way?





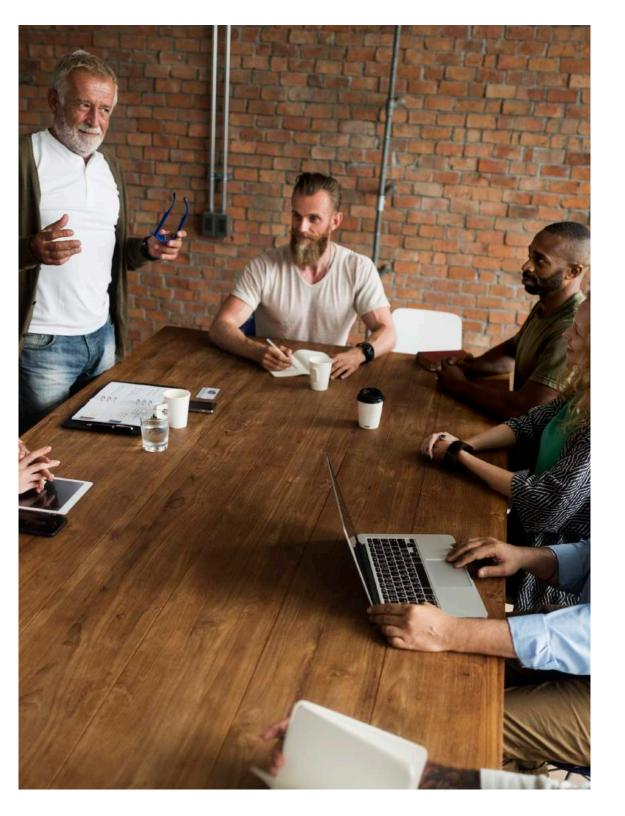










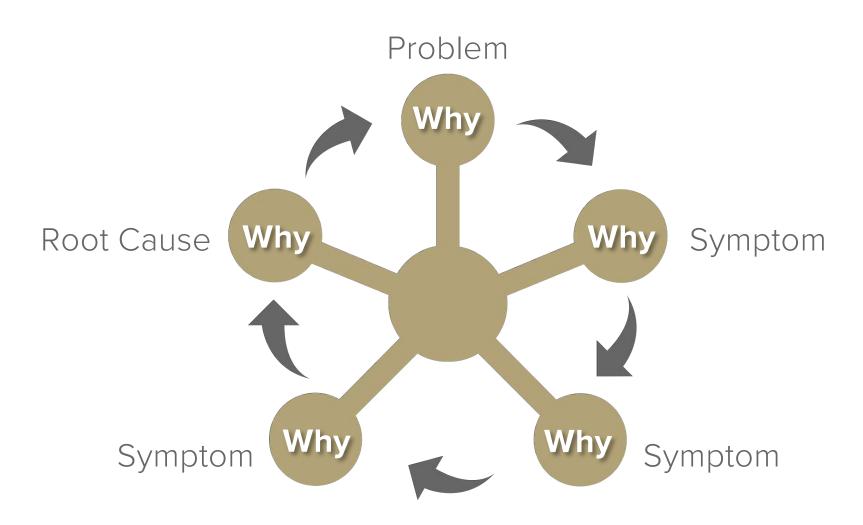




5 Whys

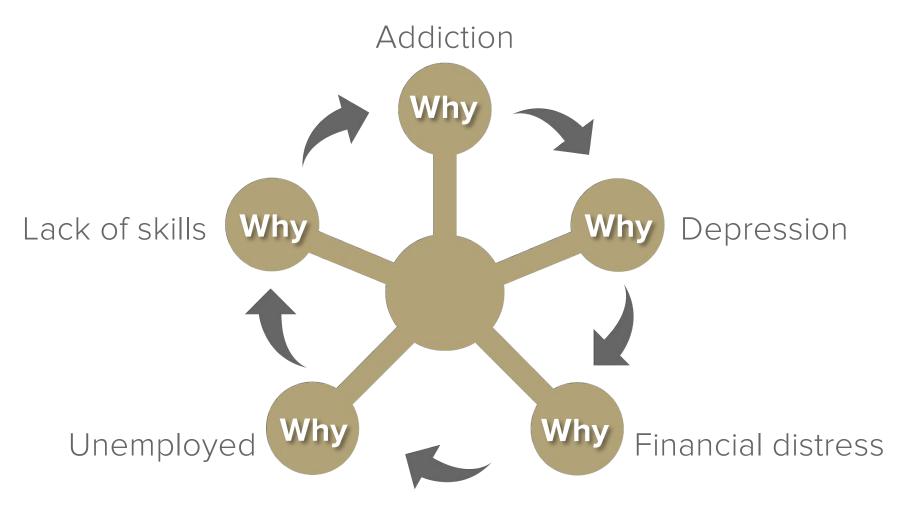


# 5 Whys





# Opioid Epidemic











Generate ideas quickly



Defer judgement



Build on ideas of others



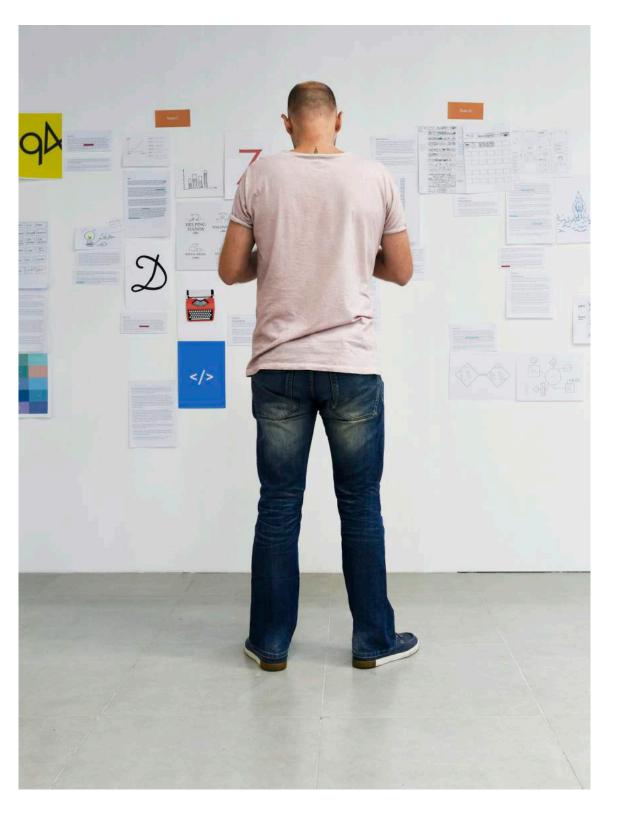
Stay focused on finding solutions to a single problem



Go for quantity over quality



Adopt a "Yes, and?" mindset





F2F Brainstorm



Worst Possible Idea



**Crowd Storm** 



Involve Youth



#### Brainstorm



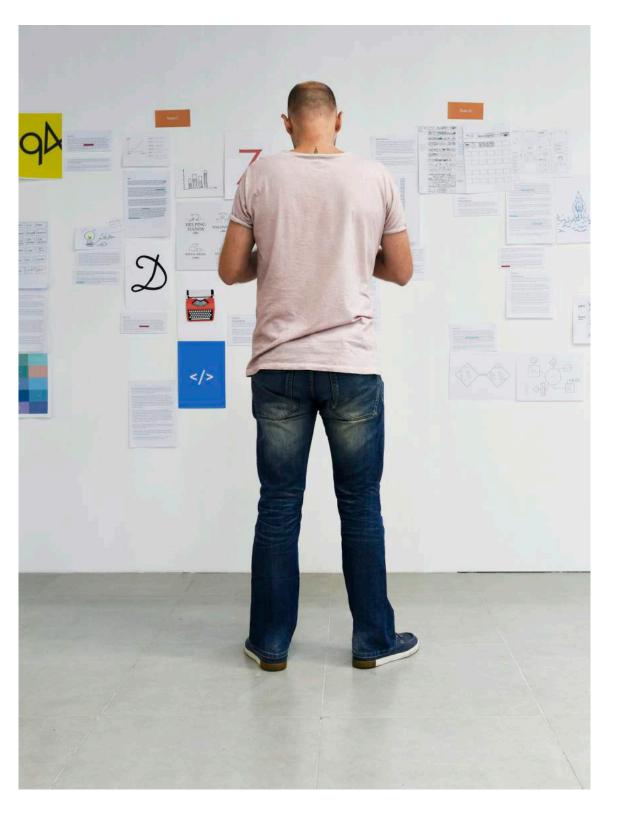
Work in team of 5-6 people

Everyone writes ideas on sticky notes and briefly introduces their concept

Draw connections through conversations

$$1 + 1 = 3$$







F2F Brainstorm



Worst Possible Idea



**Crowd Storm** 



Involve Youth



#### Worst Possible Idea

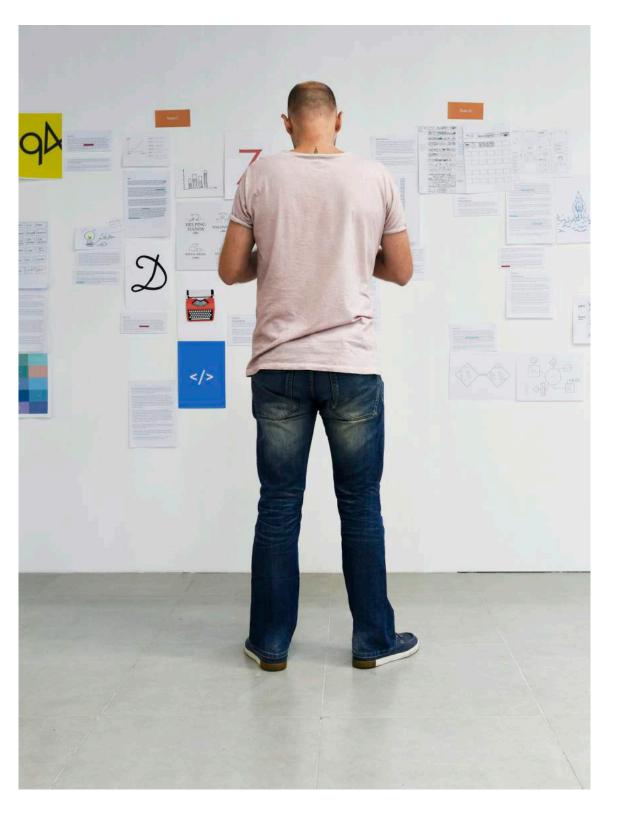


Allows your team the freedom to come up with the worst ideas to solve a challenge

Helps overcome mental blocks

Breaks ice







F2F Brainstorm



Worst Possible Idea



**Crowd Storm** 



Involve Youth



### **Crowd Storm**



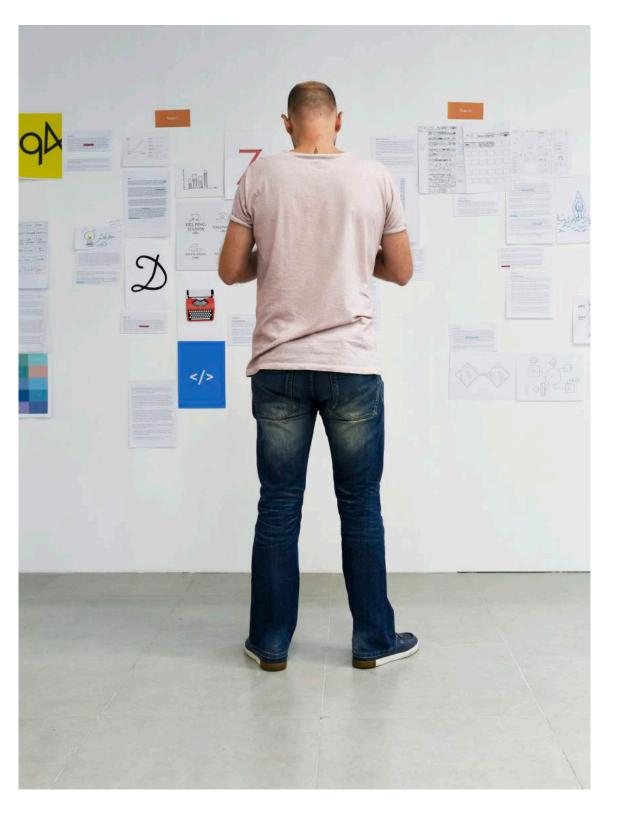
Allows you to crowd source feedback on ideas to help choose the best one



# Crowd storming... gone wrong

Boaty McBoatface







F2F Brainstorm



Worst Possible Idea



**Crowd Storm** 



Involve Youth



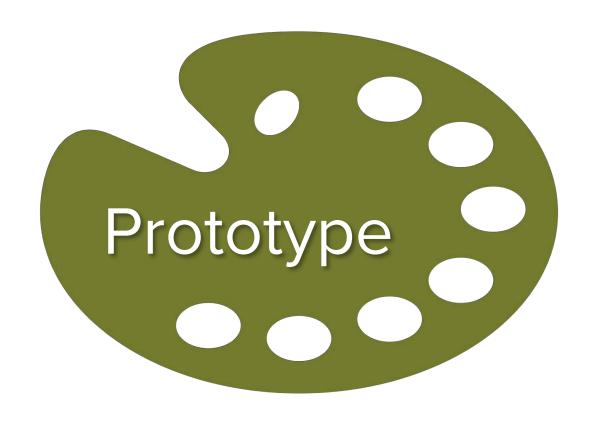
#### Involve Youth



Invite university students, high school students, 4-Hers, or other youth to participate in brainstorm activities











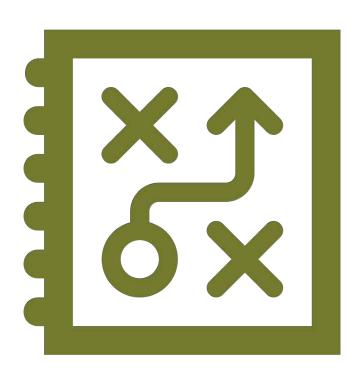
Program



Product



### Program Prototyping



Provides experience of your program or service

Focus on workflow







Program



Product



## **Product Prototyping**



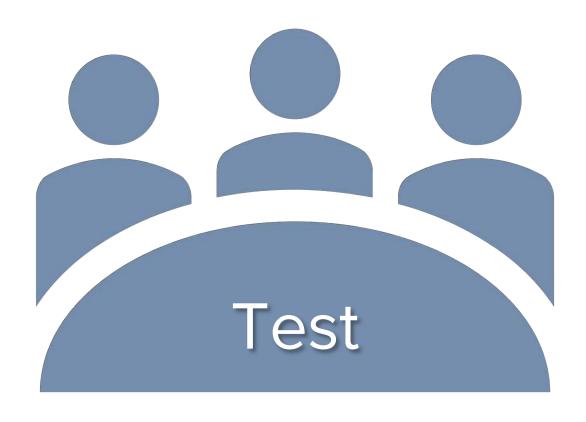
Tangible example of your product

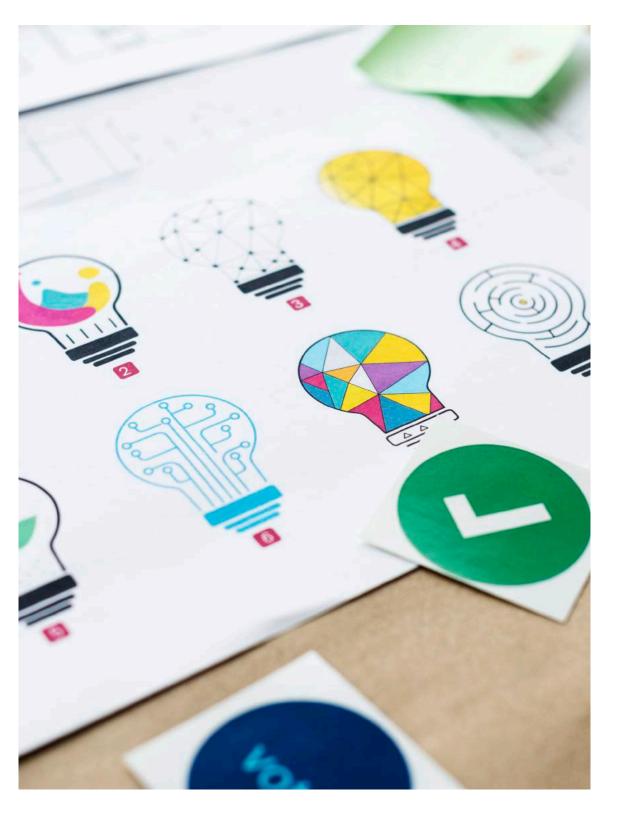
Quick and rough

**Functional** 











Observe



Analyze



### Observe

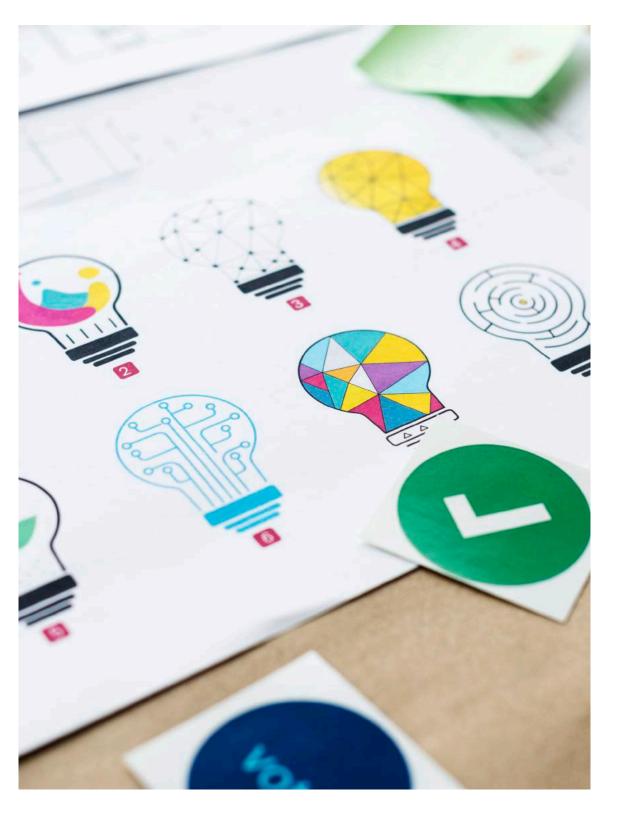


How do users interact with your prototype?

What confuses them?

What excites them?







Observe



Analyze



## Analyze

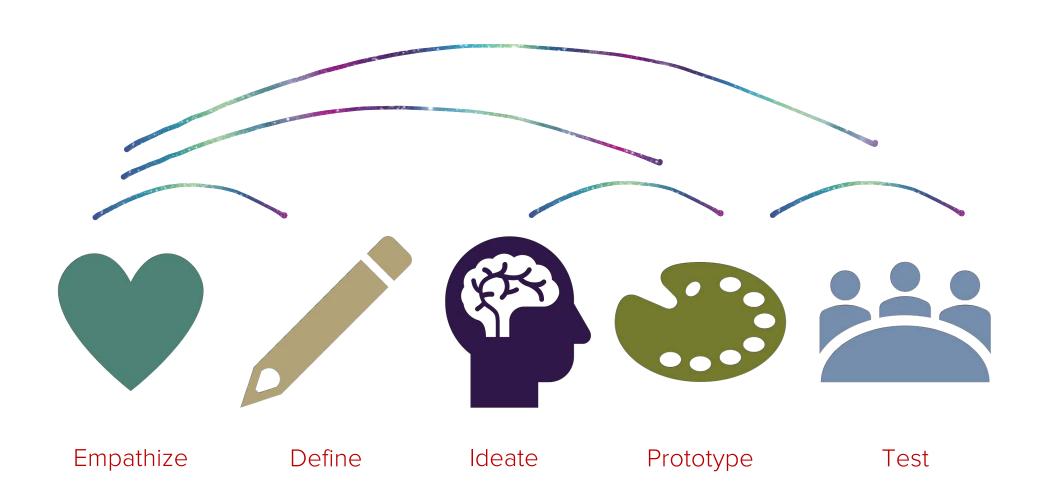


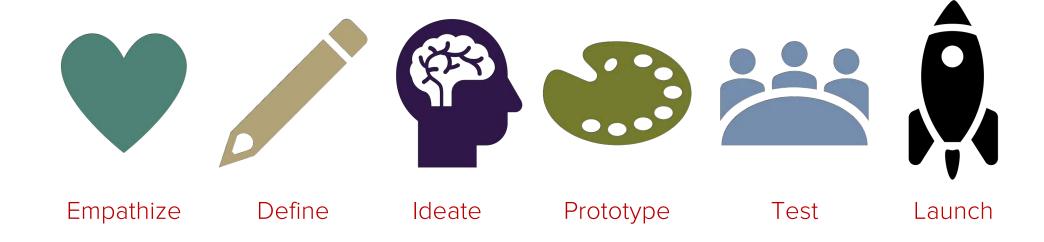
What worked well?

What needs changed?









### Stanford d.school Crash Course



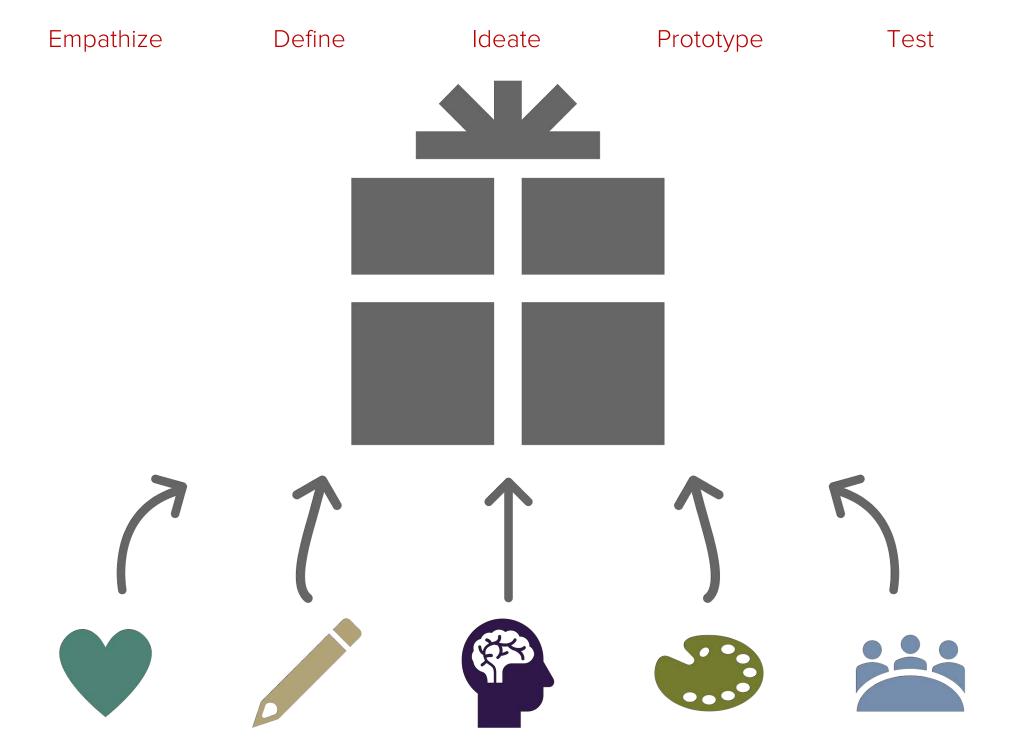












## **CFAES**

# http://go.osu.edu/designthinking18



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