

Project Theme

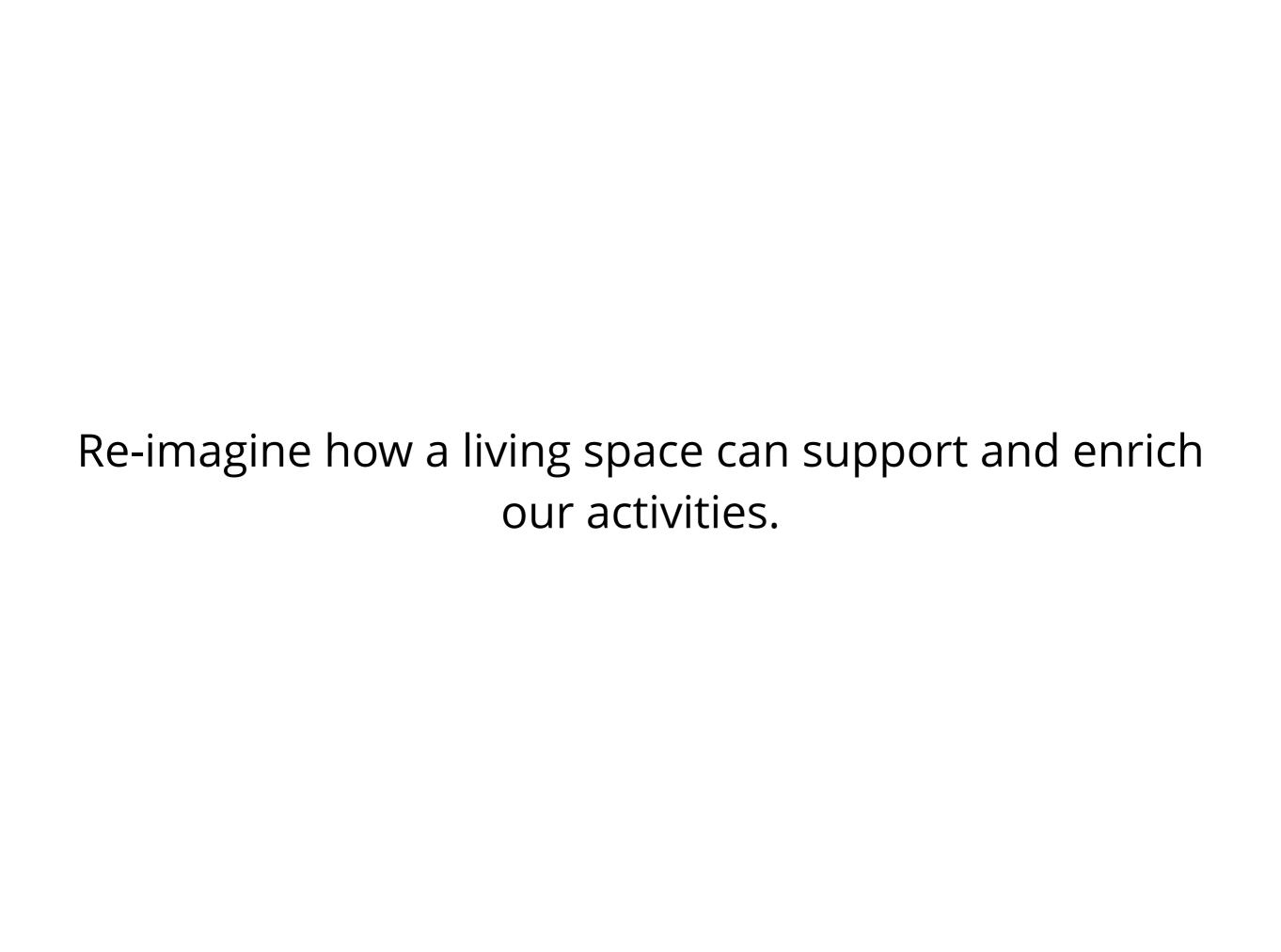








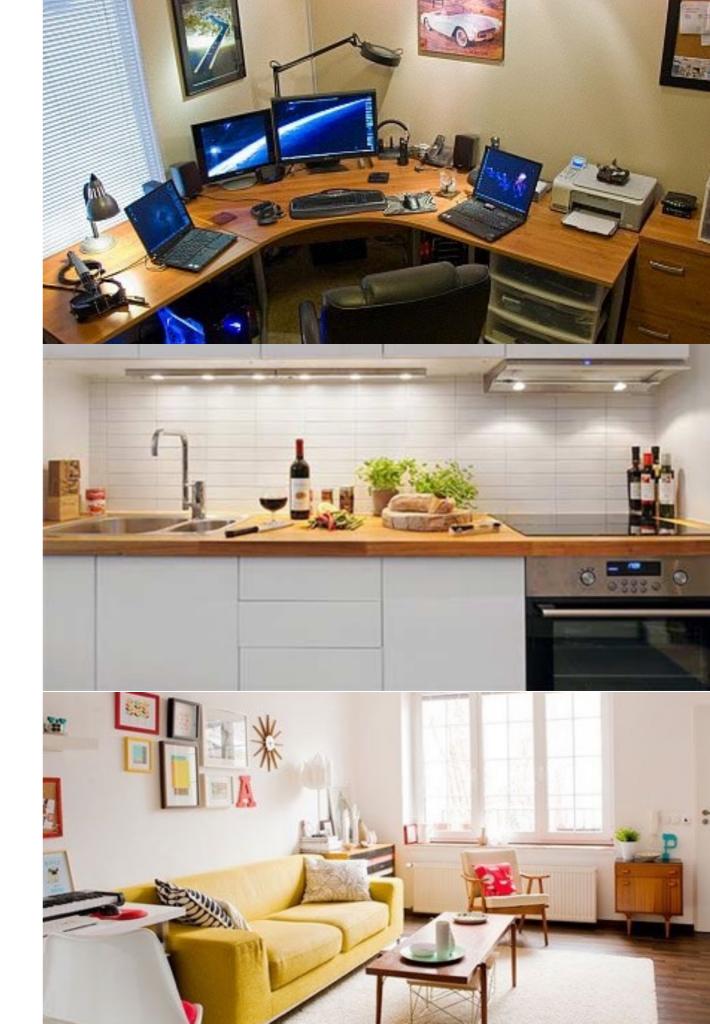
Interactive Living



Apple Pie Workspace

Banana Split **Kitchen**

Creme Brule Living Room



Dulce de Leche **Bedroom**

Eclair **Bathroom**













Confectioners sugar 8.450Z



Salted butter

7.050Z



Egg white

6 Egg whites



Ground almonds 5.300z



5.30 oz



All purpose flour 0.600Z



Confectioners sugar As Needed



Sing with Me Step Stool Fisher-Price



Jan 12	Jan 13	Jan 14	Jan 15	Jan 16
Iteration 1				
Kids' Party Games				
Jan 19	Jan 20	Jan 21	Jan 22	Jan 23
	Iteration 2			
Jan 26	Jan 27	Jan 28	Jan 29	Jan 30
Iteration 2	Iteration 3			

Alpha Beta **Iteration 1**

Storyboard 3 concepts

Iteration 2

Create and test 2 prototypes

Iteration 3

Present 1 final design

Interactive Living Final Project

Documentation on Build in Progress

\$100 group budget

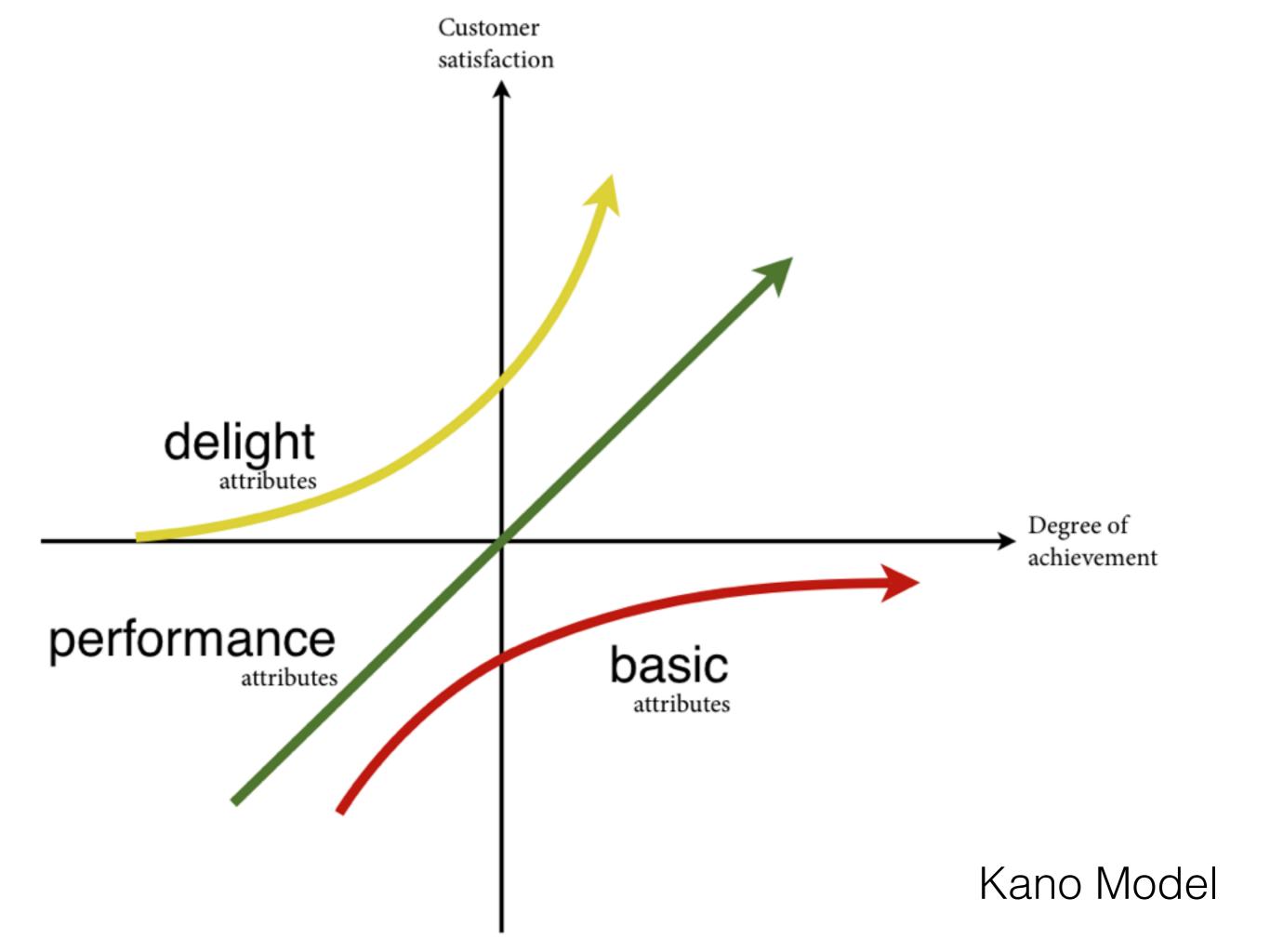
<u>Google Spreadsheets</u> + keep receipts!

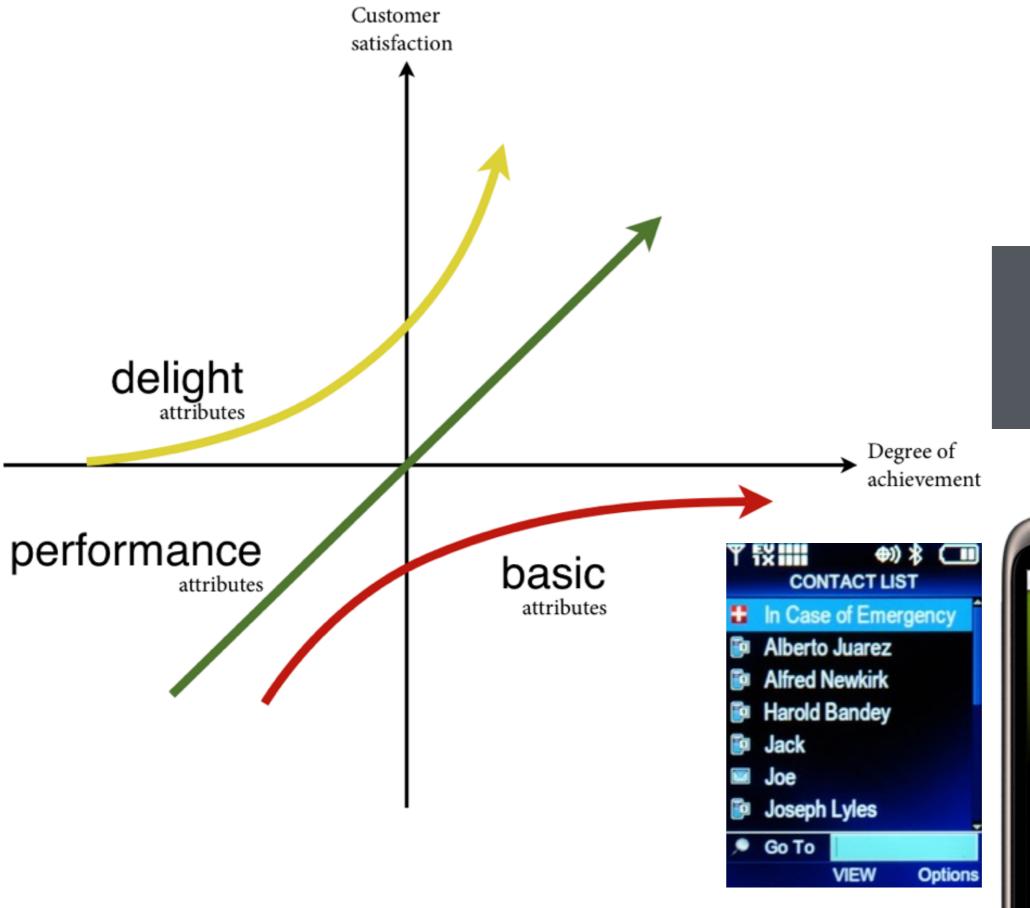
<u>Tax exempt form</u>

Needfinding

Needfinding

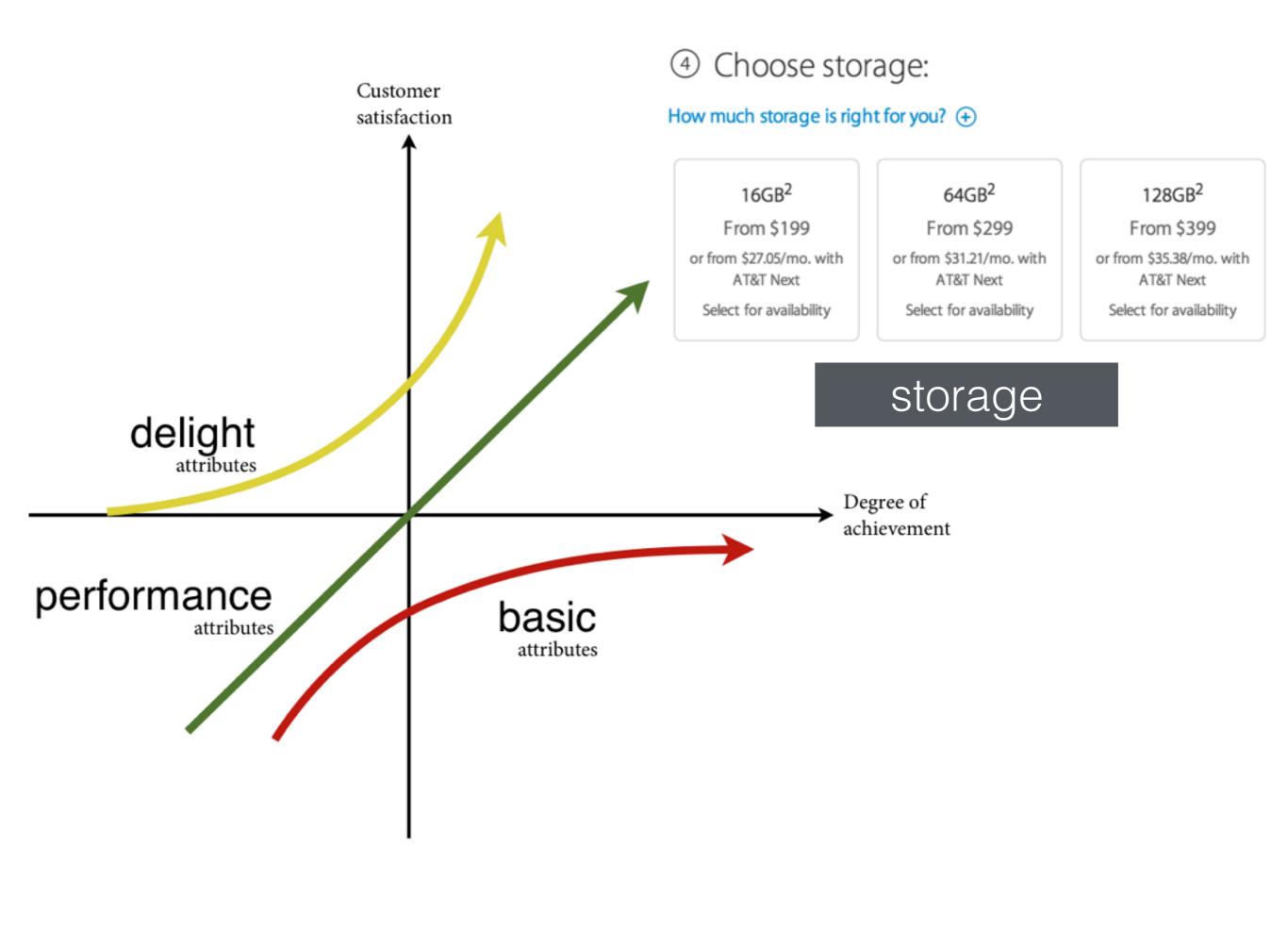
Uncovering design opportunities by identifying compelling, unmet needs

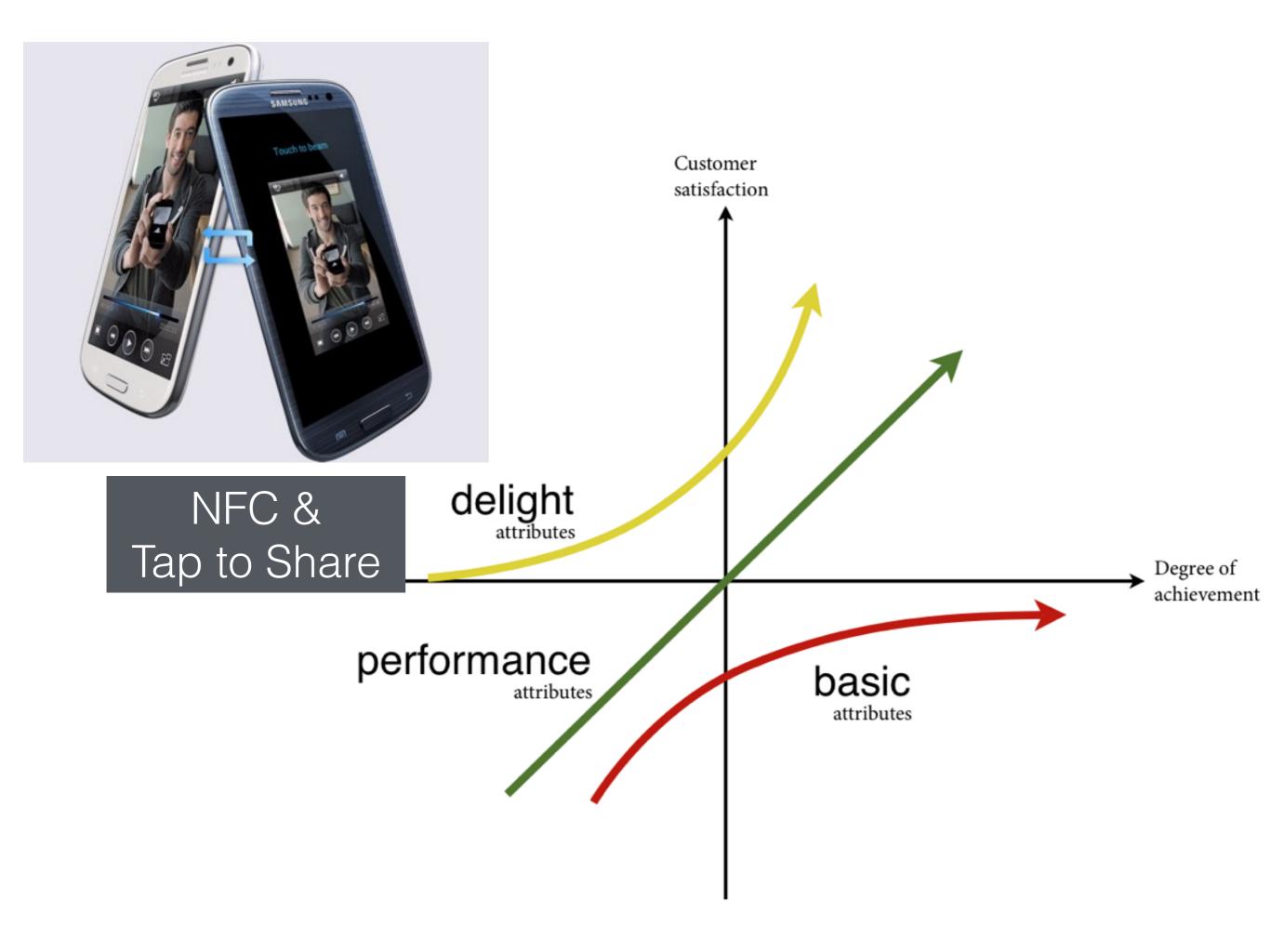




contact list and caller ID







Technologies are constantly changing

Needs are overarching

Technologies are constantly changing

Needs are overarching

contact list and caller ID

storage

NFC & Tap to Share

Keep in touch
with our
friends and family

Reflect and extend our memory

Share our experiences with others

How do we identify needs?

How do we identify needs?

Market Research & Benchmarking

Observations and Interviews

How do we identify needs?

Market Research & Benchmarking

Observations and Interviews

Needfinding: observations

Used to observe actions that are implicit / difficult to articulate

Choose site and observe activities in the space

- Demographics (age, gender, etc.)
- Activities
- Behaviors
- Unexpected interactions
- Focus on entire space / one individual

Mile readed & Appel & all areas have break. " sust go worken your own napot (A) To (g) Natalie. Dogsnt She has a new dea Brings towards 1204.609 CGS explaning how the wheels notated seem like robot, but they decide against, it ne's letting stido. get another piece. the girl "2.69" seems like they're frommy at add any Three "Notalie, so what we're going to do exactly how much robot ntates? to robot! robstacle on is This "A) " Nice!" (N) notatives Jamp. Gseems genurally excited so hold on show me the idea organ" A seems to (N) -> patiently. run off with Axledidn't exist. I his idea. They work together on putting together pieces to add to the robot. Joosn't communic suggested it at arm actuates reedle down & level it fully to (W) end of observation. ramp. releases Adedraun in dung M3. You don't need last regular pegs. You notedoug. court. Generally (A) just need one " (A) & ada looks for pieces Chw. while taking A adds pieces to the robot. They disagnee about about which piece to add to the ribot first new odea. (M) agrees with (A) (N) follows. MI & MZ for front whoels. tries to look (W) put together new design. for pieces too, 12/11. Boy pregramming claul (Not has taken over robot, (A) & (N) overlooking "This needs a rubber band" (A) I grabs piece adds Gnot said positively, no sign of anger/resentment. "You're doing great. Keep at it!" (K) ahen kun Whomas obot over to table. A grabs it Strakery is not to use sensors unless talks, Student From her and says "Let's program it first" they need to Dead reckning instead Seemto (Alex)-653 Told a strug about another seam that listenintently second buy mieneres suggests not using came in just with sensors. Decided The never a third motor no duesn't against it next year and you soemts need Mahongs (A) tells another bay not to do what he's to do much doing with another robot. The other king to get their All students listen to story (K) about Smorely disagrees. (A) walks away how people should be "goen, helpful, attention, doenn't speak sharing > one ream shared strategres disagreemal Third how (green Shirt) Says if They use muthord motor, no one eise com that never was nice with other team. In Anals ares them their robot ran out of batternes. Other



Airport Security Exercise

- Demographics (age, gender, etc.)
- Activities
- Behaviors
- Unexpected interactions



Airport Security Example

- Demographics (age, gender, etc.)
- Activities
- Behaviors
- Unexpected interactions

Needfinding: observations

Being observant

Count how many times the players wearing white pass the ball

The correct answer is 16 passes

Needfinding: observations

Being observant Minimize biases and preconceptions

Exercise: Go Forth and Observe!

Observe a living space on campus

Take notes and photographs (put on BiP)

> 5 activities you observe How are these activities carried out?

Start with observing entire space, then focus on a single individual

30 minutes

Apple Pie Workspace

Ideation (3-446)

/ Athena Cluster

Banana Split

Kitchen

Steam Cafe (7-407)

Creme Brule

Living Room

Stratton First Floor

Couches

Dulce de Leche

Bedroom

Dollar Bill Lounge

(Lobby 10)

Eclair

Bathroom

Infinite Corridor

Bathrooms

30 minutes (20 minute observation)

Exercise: Go Forth and Observe! Share

EXTREME Users

Edge cases - people who have unusual needs

Amplify needs that may be more generalizable



List attributes of the space

Create a spectrum / map for each attribute

Identify a user at either extreme

Storage Closet

Attributes



Storage Closet

Attributes

What is stored?

How big is it?



Storage Closet

Attributes

What is stored?

How big is it?

What is stored?

Food

How big is it?

Clothing

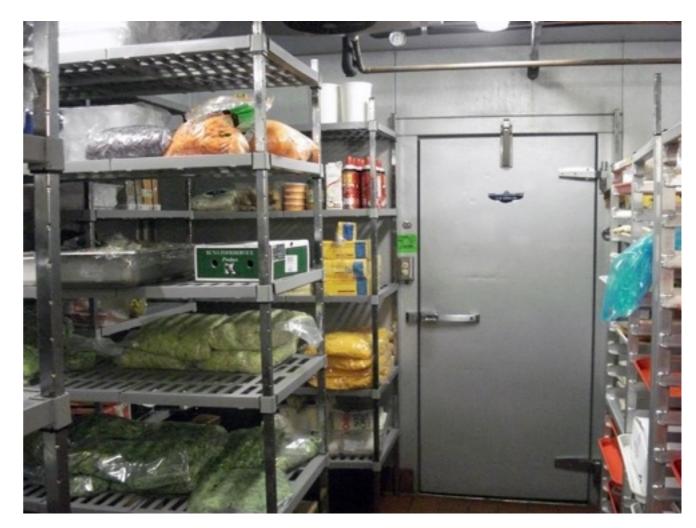


Storage Closet

Memorabilia

Packaging





Dry goods

Home cook

Refrigerated goods

Chef

Food





Clothing





large

Suburban Home Owner What is stored?

How big is it?

Clothing

Urban Dweller

small

Exercise: Identify Extreme Users

Using your observations, come up with a list of 3 extreme users for your assigned living space.

10 minutes

Bedroom?



Bathroom?



Home Office?



Assignment: Due Tomorrow

Do one more observation of an area that falls under your team's assigned living space

(ideally one of your extreme users)
Can be done in group or individually

Add to your list of observed behaviors

Post images and observations to BiP

Arduino + Electronics