







SUTD-MIT  
INTERNATIONAL  
DESIGN  
CENTRE (IDC)  
Innovation Ready Design

# Why care about Design?





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## What does the user want?

Common sense is not always common practice



What the user actually prefers



How we designed it for the user

## Why Design ?



To reduce  
discomfort,  
inconveniences,  
unpleasant  
experiences...

To increase  
comfort,  
conveniences,  
pleasant  
experience...

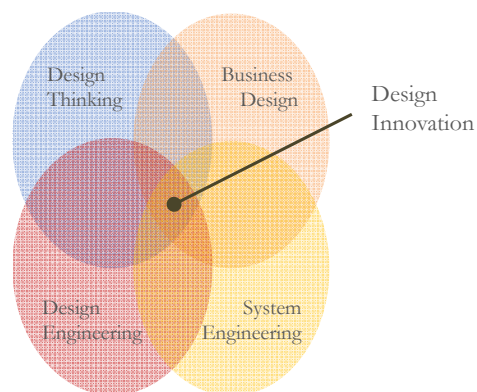


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## Design Innovation is ...

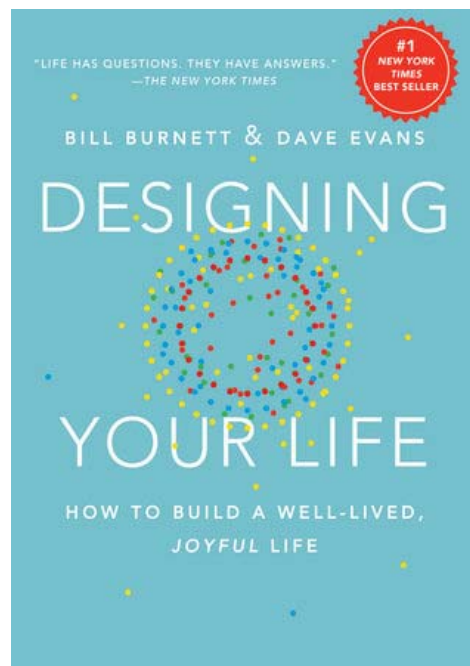


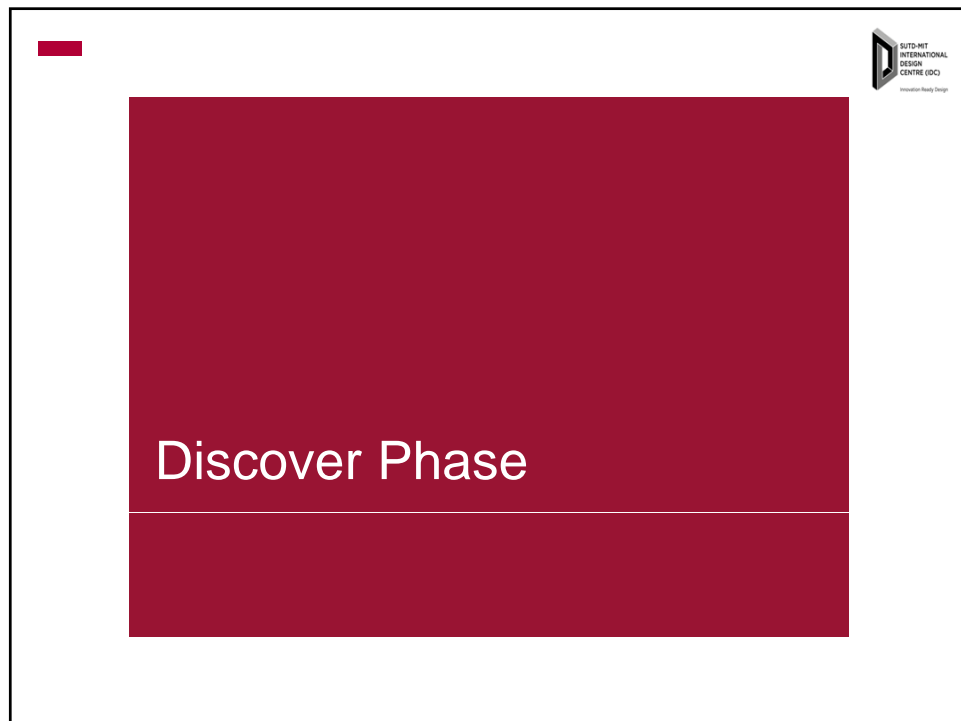
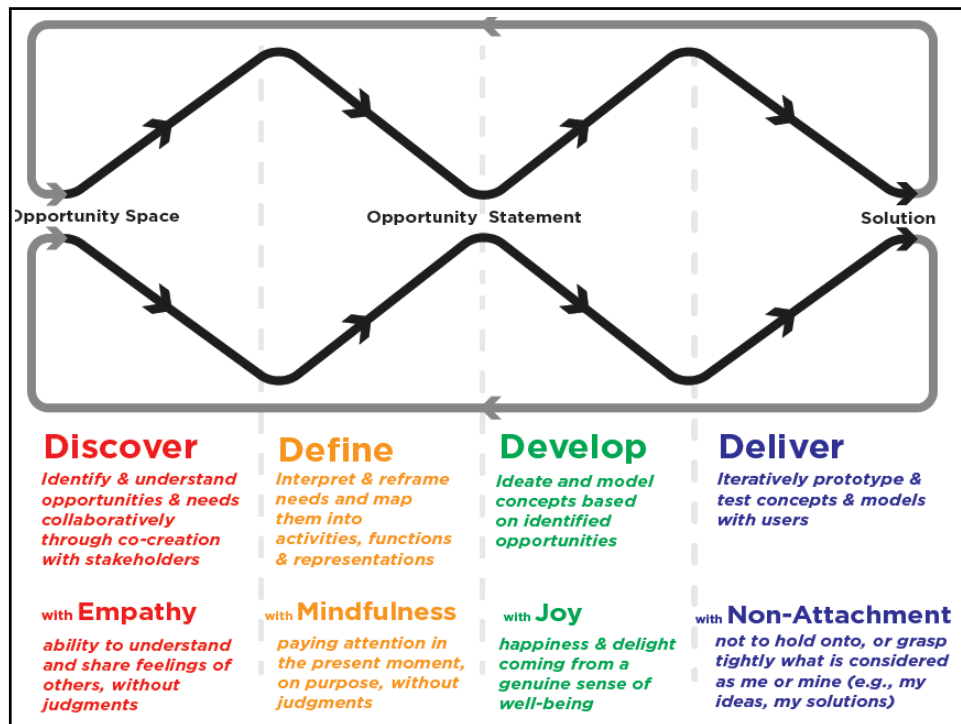
A human-centric approach of problem solving



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What is the best thing you can  
“design” (or influence...?)

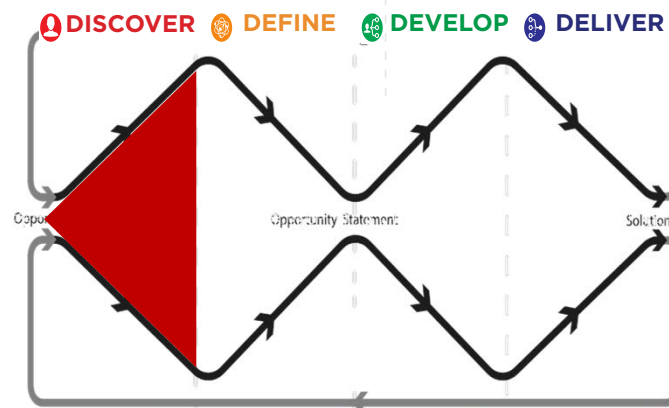




## Discover Introduction & Empathy Mindset

### DISCOVER

Exploring & understanding the problem and people you need to help



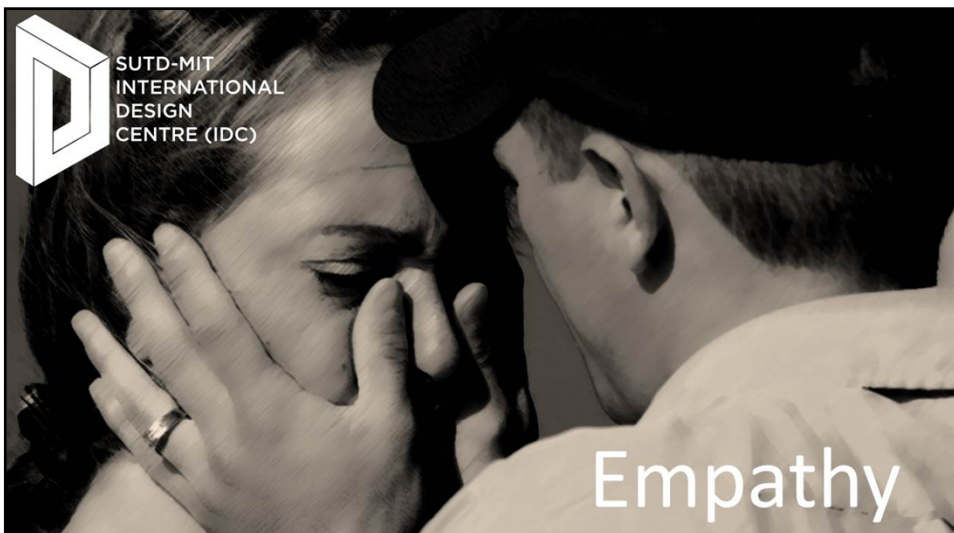
## DISCOVER

Objectives are to:


- Deepen understanding of the problem or person
- Uncover pain points, challenges, unmet needs; find work arounds & unusual behaviours
- Mindset of Empathy and Curiosity!



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Ability to understand and share feelings of others, without judgment



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# Begin with the end in Mind: User Needs





## More about user needs...



- Go below the iceberg waterline, to intuit about what your users need...
- Ask “Why”, “why”, “why” ...
- For example, if someone says “I need a car”, or “I need a house”. Don’t just take it at face value.
  - “I need a car” may translate to: I need mobility to get my handicapped mother from point A to point B.
  - “I need a house” may translate to: I am getting married and would like my own private space





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Begin with the end in  
Mind: Personas

**WE WILL EVENTUALLY CREATE  
PERSONAS SO WHAT ARE THEY...?**

 Where do personas come from?



- Personas are fictitious characters created & distilled from your real DISCOVERY work (eg observations, interviews, chats, etc)

## Example of a persona (you can google for more examples)



**Jill Anderson**

"I'm looking for a site that will simplify the planning of my business trips."

AGE: 35  
WORK: Regional Director  
FAMILY: Married, 1 Child  
LOCATION: Austin, TX  
ARCHETYPE: The Frequent Flyer

Organized Practical  
Protective Hardworking

**Bio**

Jill is a Regional Director who travels 4-8 times each month for work. She has a specific region in which she travels, and she often visits the same cities and stays at the same hotel. She is frustrated by the fact that no matter how frequently she takes similar trips, she spends hours of her day booking travel. She expects her travel solutions to be as organized as she is.

**Personality**

Introvert ☐ Extrovert ☐  
Analytical ☐ Creative ☐  
Loyal ☐ Fickle ☐  
Passive ☐ Active ☐

**Preferred Channels**

Chrome ☐  
Mobile ☐  
Email ☐  
Traditional Ads ☐

**Goals**

- To spend less time booking travel
- To narrow her options quickly

**Frustrations**

- Too much time spent booking - she's busy!
- Too many websites visited per trip
- Not terribly tech savvy - doesn't like the process

**Motivations**

Price ☐  
Comfort ☐  
Convenience ☐  
Speed ☐  
Loyalty/Miles ☐

**Brands**

KAYAK Expedia  
ACE HOTEL Lyft

An example of a Persona Template we will develop after 5-10 interviews is done

"Quotable Quote of Persona"

Persona Story of Persona

<Name of Persona>

Name: \_\_\_\_\_  
Age: \_\_\_\_\_ Gender: \_\_\_\_\_  
Education: \_\_\_\_\_  
Department: \_\_\_\_\_  
Hobbies/Interests: \_\_\_\_\_  
Family: \_\_\_\_\_  
(or other relevant persona details)

Deepest Needs

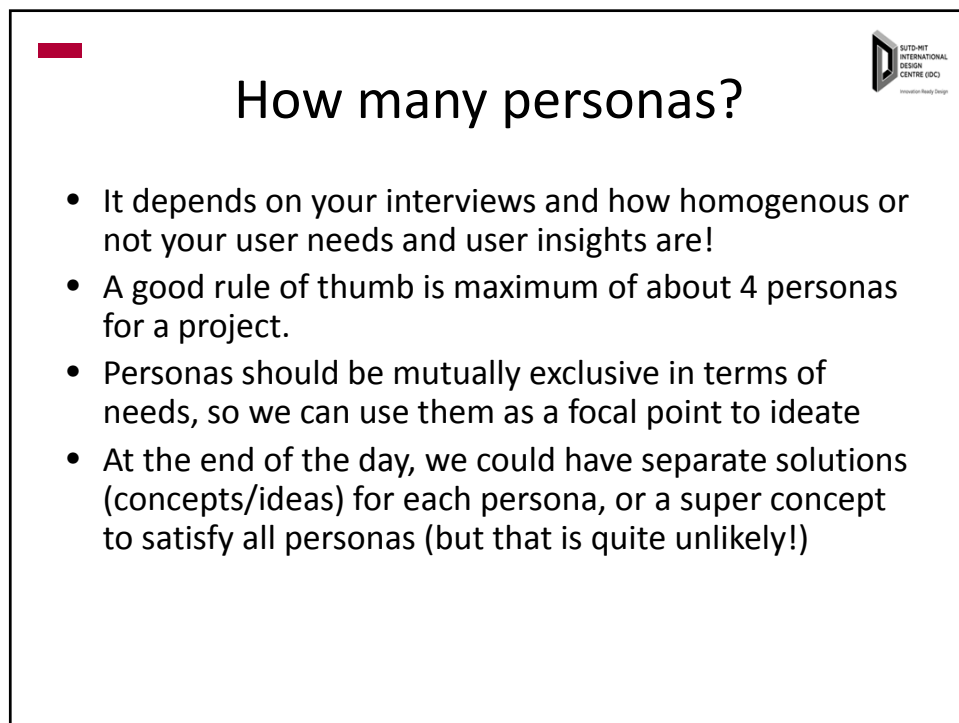
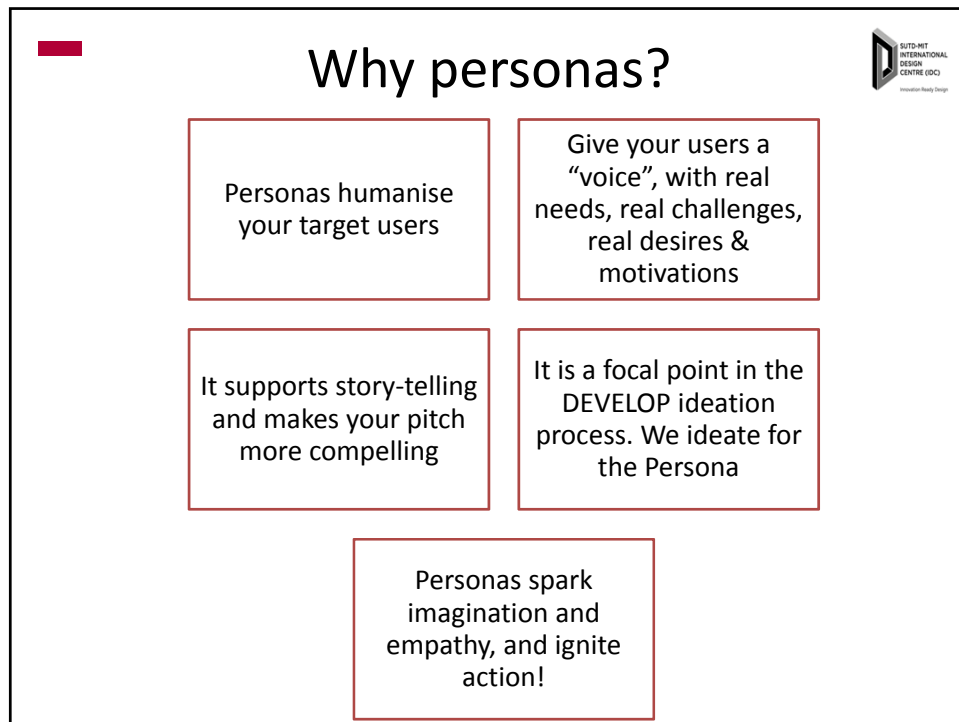
Motivations/Goals

Pain points

**Behaviours**

<Behaviour 1>

Satisfied ☐ Very satisfied ☐




**Activity**

Create a Persona Hypothesis (based on your research so far)

**<Name of Persona>**

An example of a Persona Template we will develop after 5-10 interviews is done



"Quotable Quote of Pesona"

Persona Story of Persona

Name:  
Age:      Gender:  
Education:  
Department:  
Hobbies/Interests:  
Family:  
(or other relevant persona details)

**Deepest Needs**

**Motivations/Goals**

**Pain points**

**Behaviours**

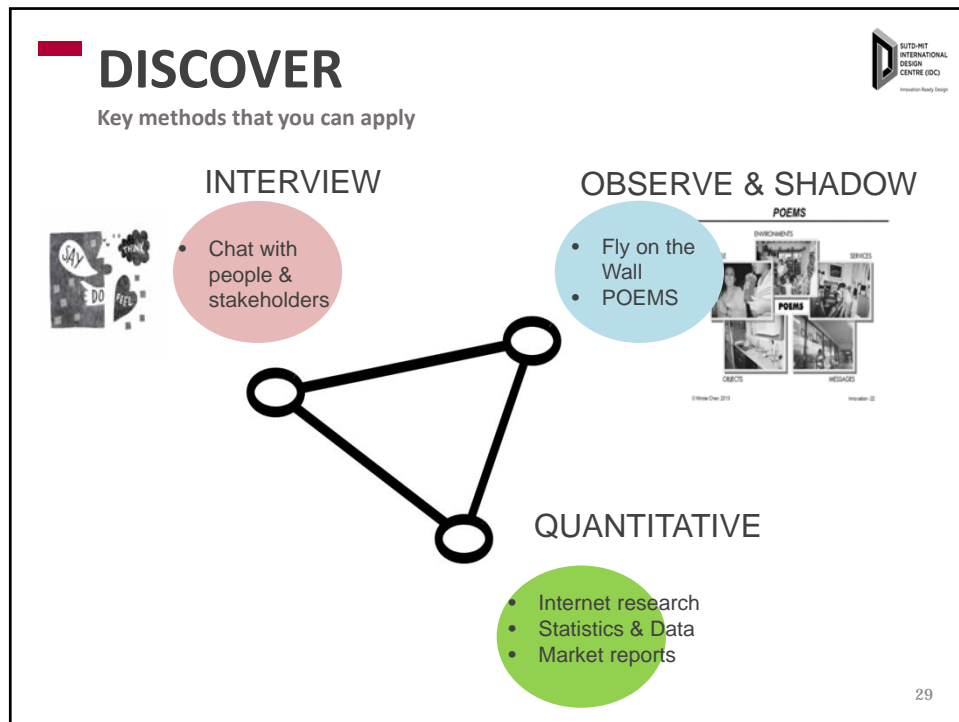
<Behaviour 1>

Satisfied ————— Very satisfied

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**User Research:  
Observation &  
Interviews**

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## Mindsets to support Discovery



empathy

Curiosity. Ask  
“Tell me more”.  
“oh..., why?”

Open-minded

non-  
judgmental

Build rapport!

Supportive...  
let your users  
talk!

## Activity: Team Member Superpower



1. Identify and have every team member advocate a particular mindset as their superpower for the discovery phase of this project.

Tip: Some people are ore pre-disposed towards certain mindsets, so pick a mindset that is more natural for you.

On the other hand, if you know that mindset is challenging for you, it would be good to practice that midnset too!



## Observe & Shadow

Discovery Method 1



Shadowing

Site Visit

Day in the Life...



Remember to probe and distinguish between  
***What People Say vs. People Do***

## Observe & Shadow with POEMS

Discovery Method



### P.O.E.M.S

People. Objects. Environments. Messages. Services.



## Interviews

Empathy building






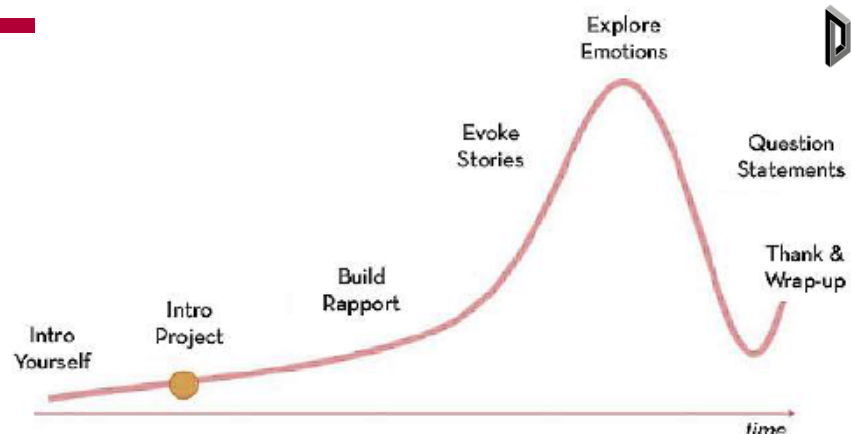
- There are limits to what we can learn from just observing people
- Talking to people allows us to reach a deeper understanding (mix of questions & activities)
- Probe and ask about experience, emotions, motivations, frustrations, pain points,
- Ask "Why?" a lot. What were they thinking, hoping to achieve, feeling at that moment...
- We try to understand them through their stories & experiences, don't ask for their views & opinions

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## Interviews

Empathy building





- A typical flow of an interview.
- Spend about 5min on intro to rapport: you want to gather demographics from them
- Spend about 10min to wrap up. Some of the best gems could come at the thanking stage. Always be listening!
- The bulk of the interview is on evoking stories, exploring emotions and following-up with what they shared with empathy and curiosity

## Start by asking to share an experience



Note: Experience (real) vs. Opinion (their views)

Tell me a about a recent experience

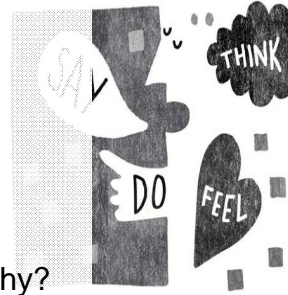
What was the best part of it?

What was the worst part of it?

How did it make you feel?

What were you hoping to gain/achieve?

Probe gently: Tell me more? Why? Why? Why?



## Follow-Up Questions...



Note: Experience (real) vs. Opinion (their views)

- Why?
- How did you feel?
- What were you thinking?
- Yes,... please go on
- Please tell me more
- Why not?
- That's really interesting. Tell me more...



## ■ Bad Questions



Note: Experience (real) vs. Opinion (their views)

- Too long. Using too many conjunctions like “and”, “or”, “but”. Just keep the question to 7 words or less.
- Avoid double-barrel questions: asking more than 1 question
- Leading questions (leading your users to say a certain “correct” answer in your mind!)
- Closed question leading to a dead-end “yes or no”

## ■ Non-Verbals are important!

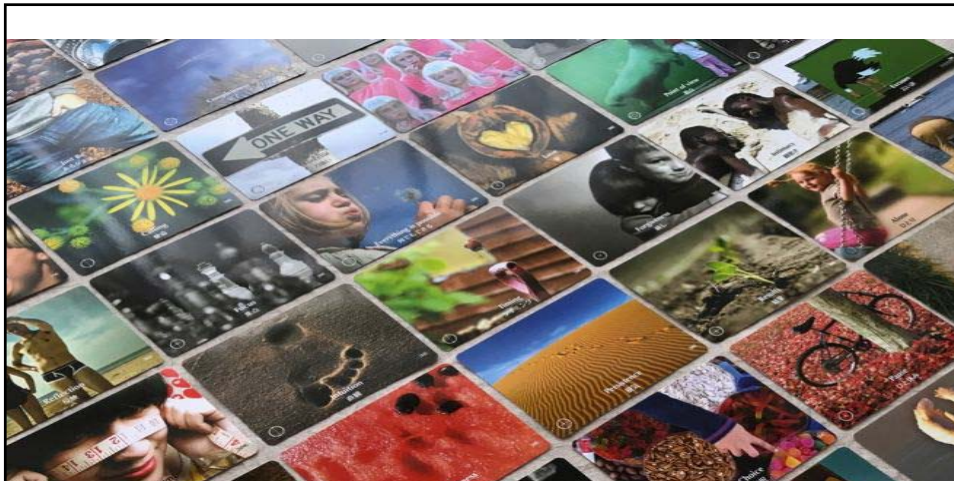
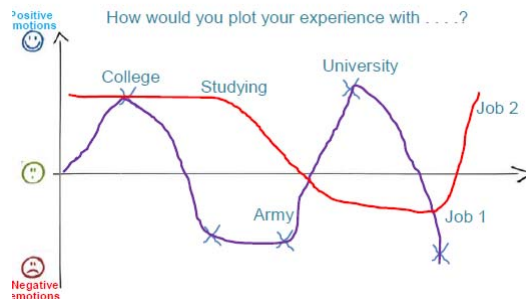
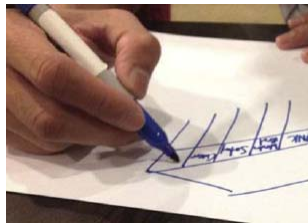


- As you notice an extra laugh, a nervous chuckle, an eyebrow twitch, a throat clearing, rapid shaking of leg... ...that’s your indication to ask...
- “what was that about”. Or “tell me more”, or “what are you feeling about what you’ve just said”, or some other question to PROBE deeper!

## Engage your users!



- “Draw me your ideal XXX ”
- “Sketch for me your journey map” (get them to indicate high/happy points and low/sad points)



Ask your user to sort a deck of cards you pre-prepare. Cards have a suitable photo and a keyword. Ranking the cards can show you quickly what your user values. You can prepare your own deck that is customised for your project.

## ■ Some Best Practices



- Interview should be done in pairs
- Interview length is at least 60 minutes
- Always prepare an interview guide.
- Flow in the interview. Don't follow your interview guide strictly
- Capture quotable quotes
- Interview one user at a time
- Interview at least 8 users for meaningful data
- Always debrief immediately after the interview. Allow 30 minutes for the debrief
- Remember to take a photo of your user!

## ■ Debriefing the Interview Process




- What went well?
- What could have been done better?
- What question should we have asked but didn't? (you can follow-up with a phone call)
- What new question would you like to add to your interview guide

After that, please update the rest of your team so everyone knows your learning and can apply it!

## Debrief the Actual Interview

### Post-Interview Debrief Template

(30min, immediately after the interview so you don't forget!)



Insert Real  
Photo here

Overview of your interviewee  
 Name: (relevant demographic profile,  
 Relevant likes/dislikes, relevant lifestyle, habits etc.):

Goals/Motivation:

Quotable Quote:

Current Experience:

Challenges or Pain-points:

3 most memorable things about the interviewee:

User Insights or Deep Needs:

Activity: Create a schedule of user research (both Interviews / Observations) for your Project over the next few months...

#### User Research Schedule

SN	Interviewer	Note-taker	Interviewee Name	Brief Profile of Interviewee	Interview Date/Time
1					

## Activity: Conduct 2-3 User Interviews Before Friday Pitch... and debrief using the Post-Interview Debrief Template

<p>Insert Real Photo here</p>	<p>Overview of your interviewee Name: (relevant demographic profile, Relevant likes/dislikes, relevant lifestyle, habits etc.):</p>
<p>Goals/Motivation:</p>	<p>Quotable Quote:</p>
<p>Current Experience:</p>	<p>Challenges or Pain-points:</p>
<p>3 most memorable things about the interviewee:</p>	<p>User Insights or Deep Needs:</p>