

Mahidol University Institute for Innovative Learning

DESIGN THINKING MUADP Level 1

19 June 2024 Prince Mahidol Convention Centre.

AGENDA

01

Design thinking in Practice

Examples of design thinking in Education

What is design thinking?

02

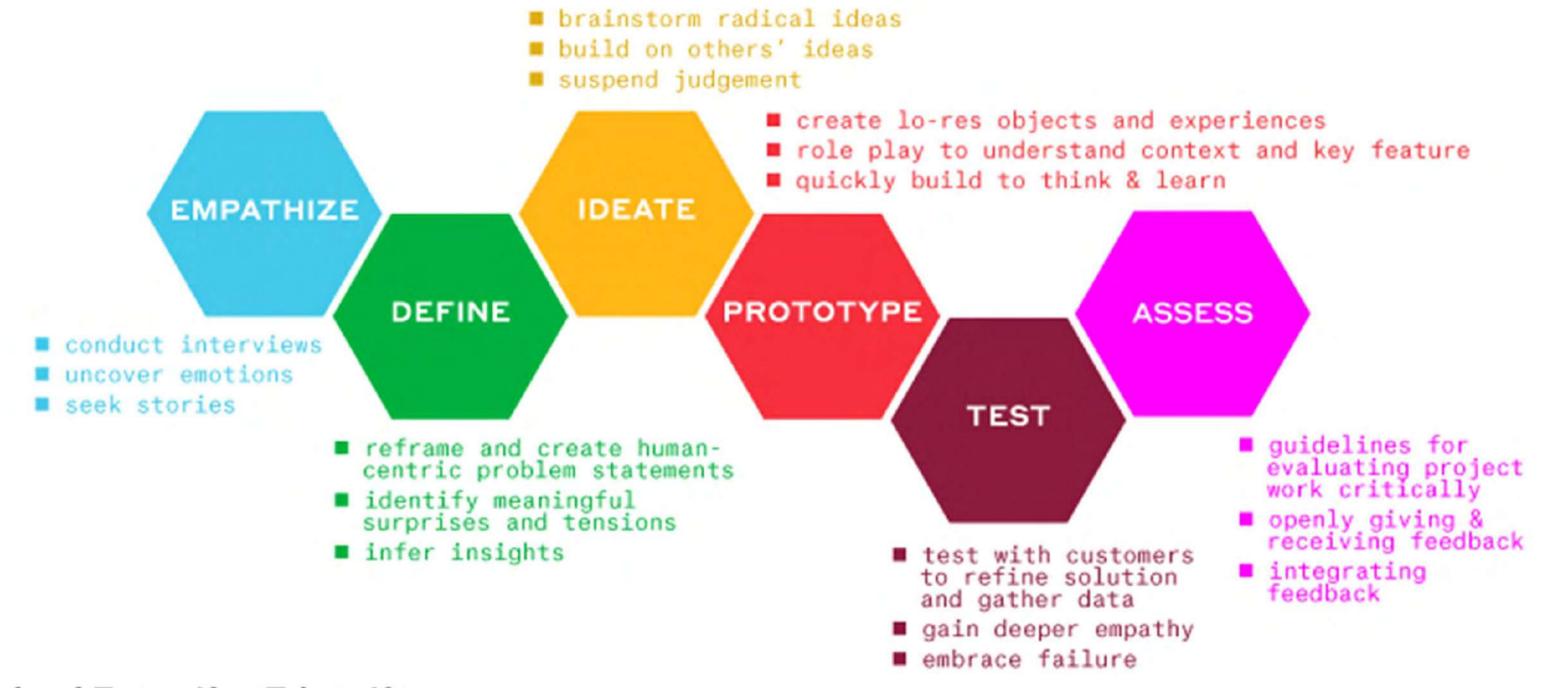
Design thinking in theory

03

Focus on Empathy

Practice empathy interview

Design Thinking Process Diagram*



d.school Executive Education

Hasso Plattner Institue of Design at Stanford University

https://dschool.stanford.edu/executive-education/dbootcamp

*not necessarily linear, apply as needed ©2019



School Improvement

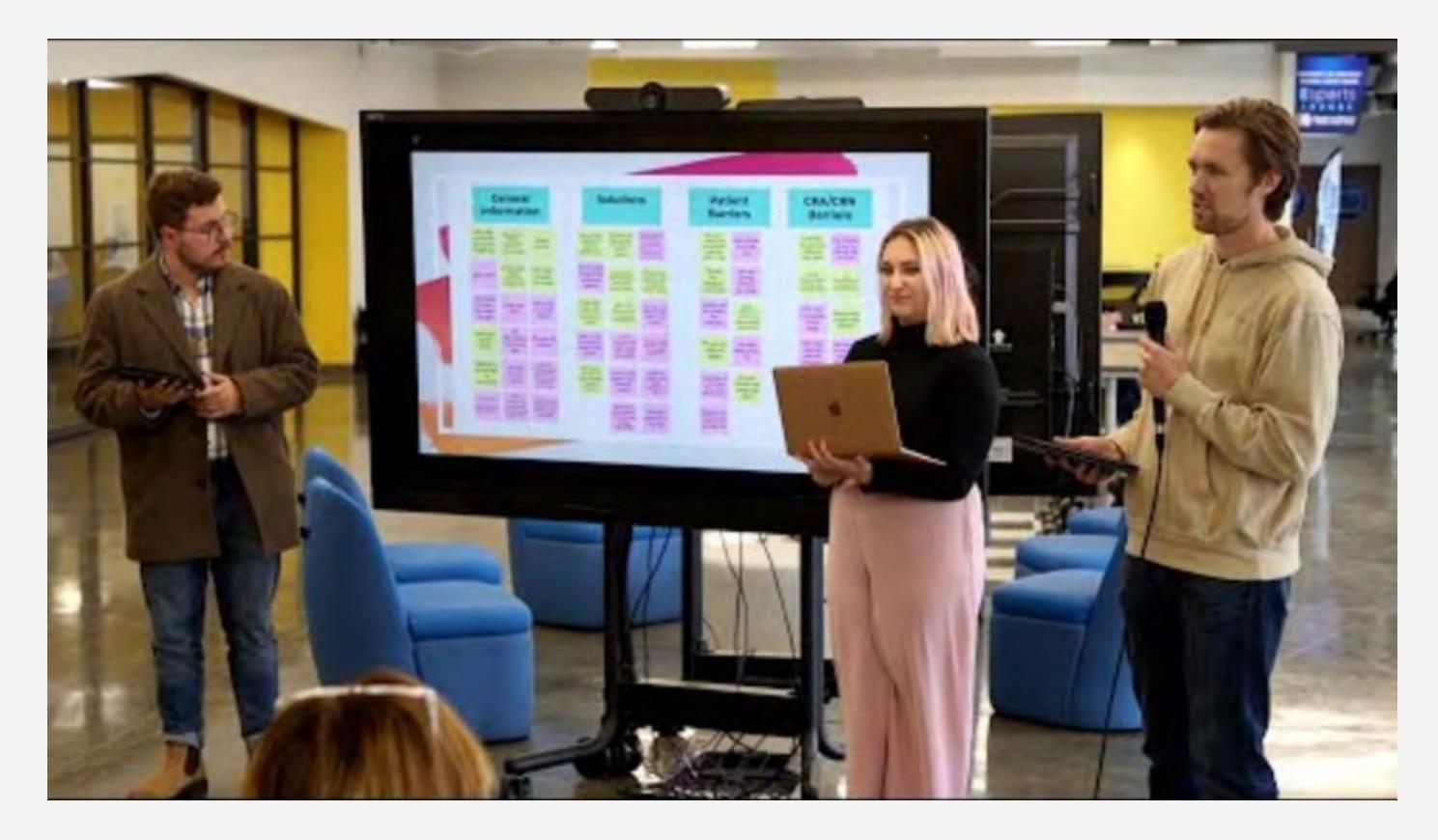
Inquiry Learning

Practitioner Inquiry

Learning Design

Barrett, T. (2019, October 9). Applying design thinking in 4 different ways in schools. Medium. Retrieved from https://tombarrett.medium.com/applying-design-thinking-in-4 different-ways-in-schools-9ab7c9dd6826

How the University of Kentucky Prepares Students for Real-World Problem Solving



https://www.youtube.com/watch?v=rTrpgwjhO30

Tips & Tricks

for implementing Design Thinking in the classroom

Important

Problem selection



Listen !!!



How to select a problem issue for teaching DT in class

Present Issues

(ปัญหาที่เป็นปัจจุบัน)

Everyone has
experiences

(ทุกคนเคยมีประสบการณ์ร่วม)

Challenge

(ปัญหาที่น่าสนใจหรือท้าทาย)

- •Wicked problem
- •Community problem

(residence / school / workplace)

Real world problem



- Having more than one solution
- No right or wrong solution, just better or worse
- Need multi-disciplines knowledge to solve (อาศัยองค์ความรู้จากศาสตร์หลายแขนง)

Problem Themes (ตัวอย่างกรอบประเด็นปัญหา)



water quality

food security

https://www.un.org/sustainabledevelopment/blog/2016/07/17goals17days-progress-made-on-sustainable-development-goals/

air quality

Education

forest fire

Environment

waste management

(problem >> Real world problem)

Sharing Experience

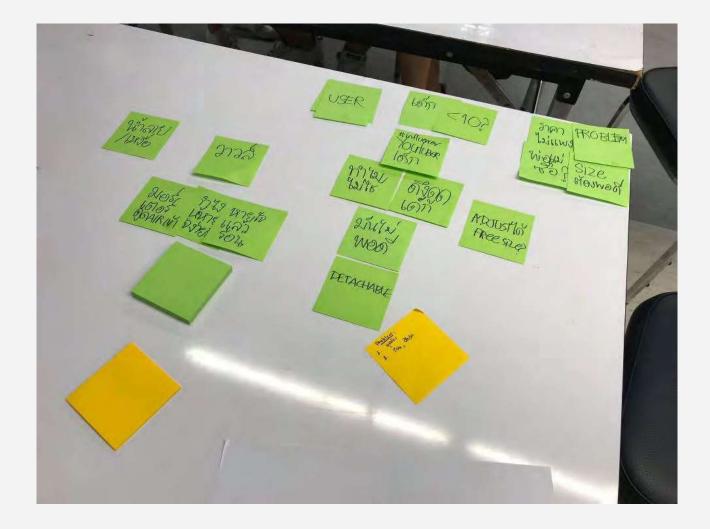
Purpose: Proposed new product ... PM 2.5 mask

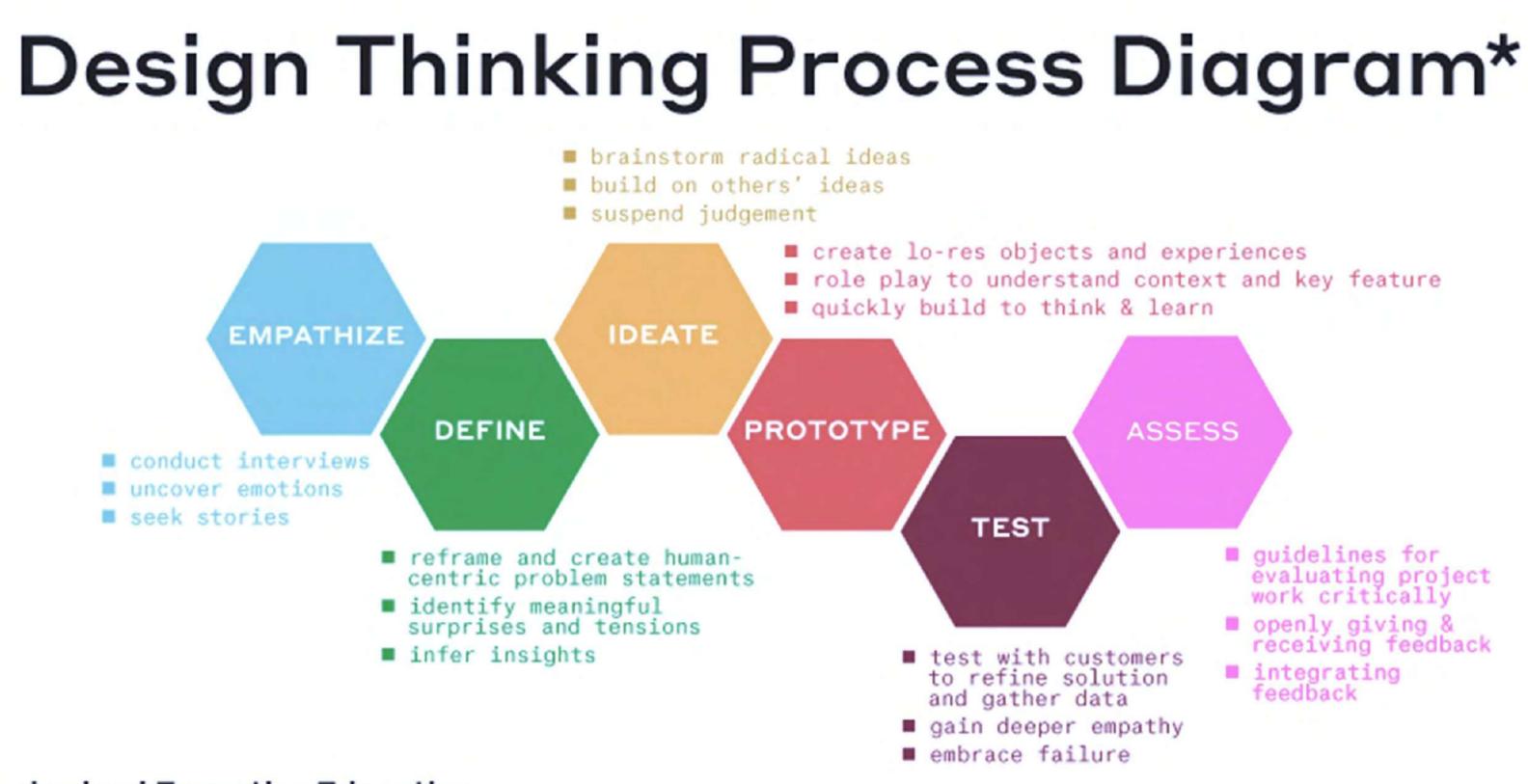
Problem Framing

Good problem question would generate more than one solutions (prototypes)







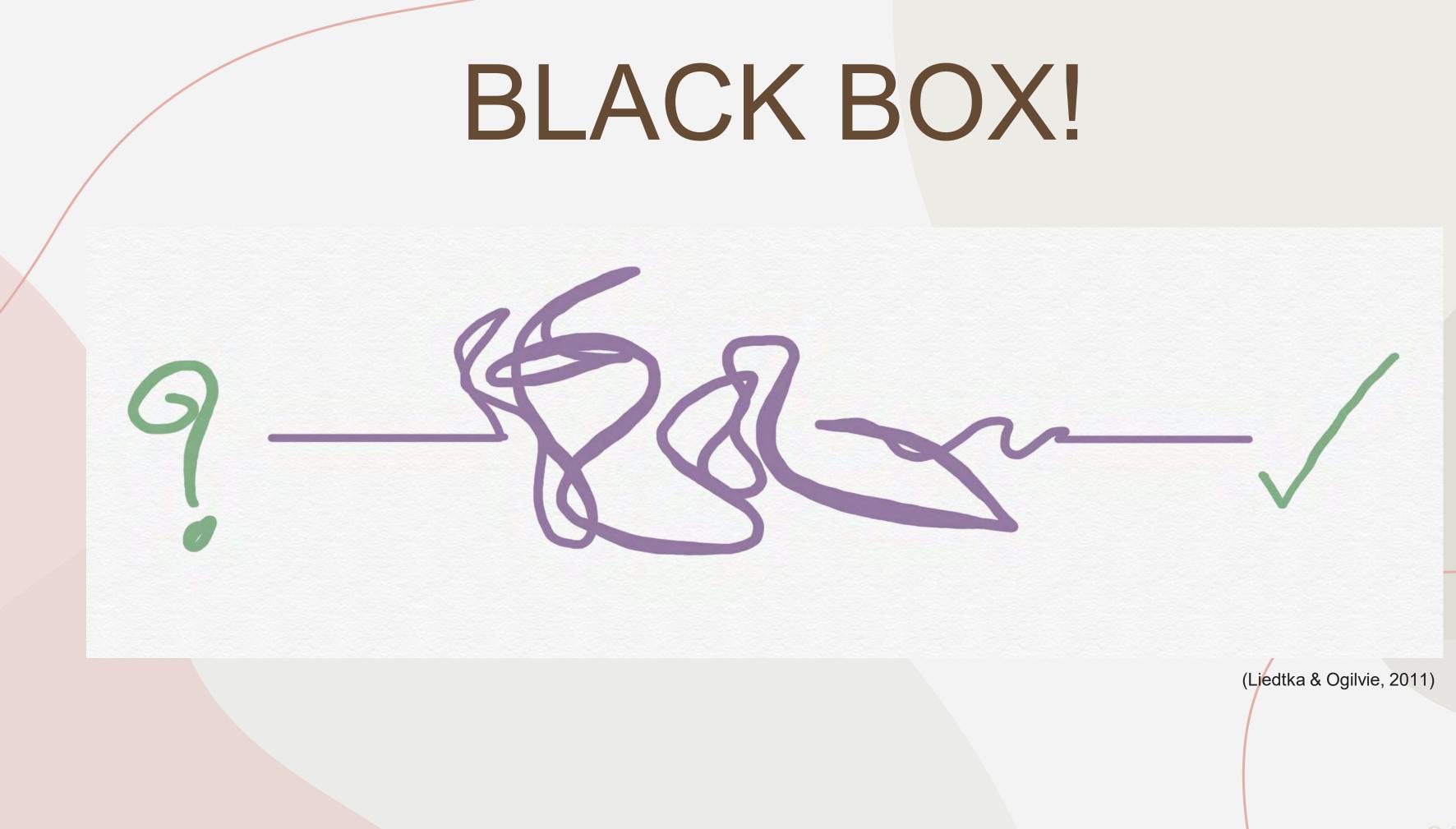


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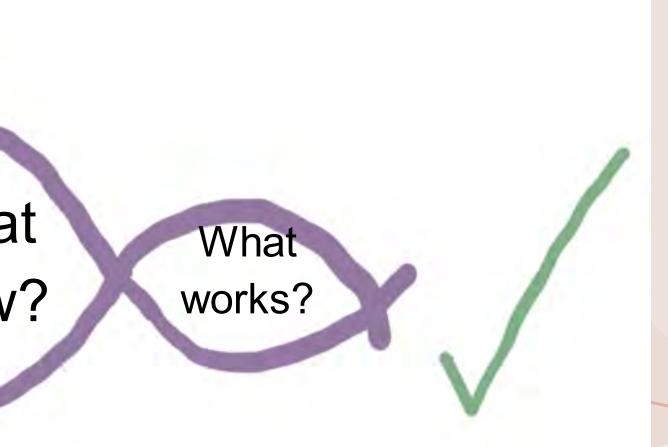
*not necessarily linear, apply as needed ©2019



What is?

What is? What if?

What wow?



(Liedtka & Ogilvie, 2011)

BLACK BOX

What is the most effective way to teach online?

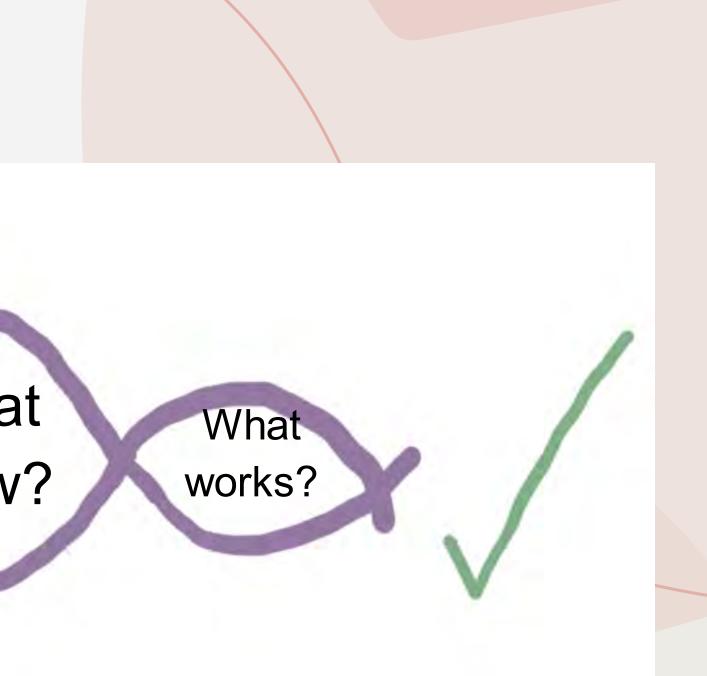
What are students' learning styles?

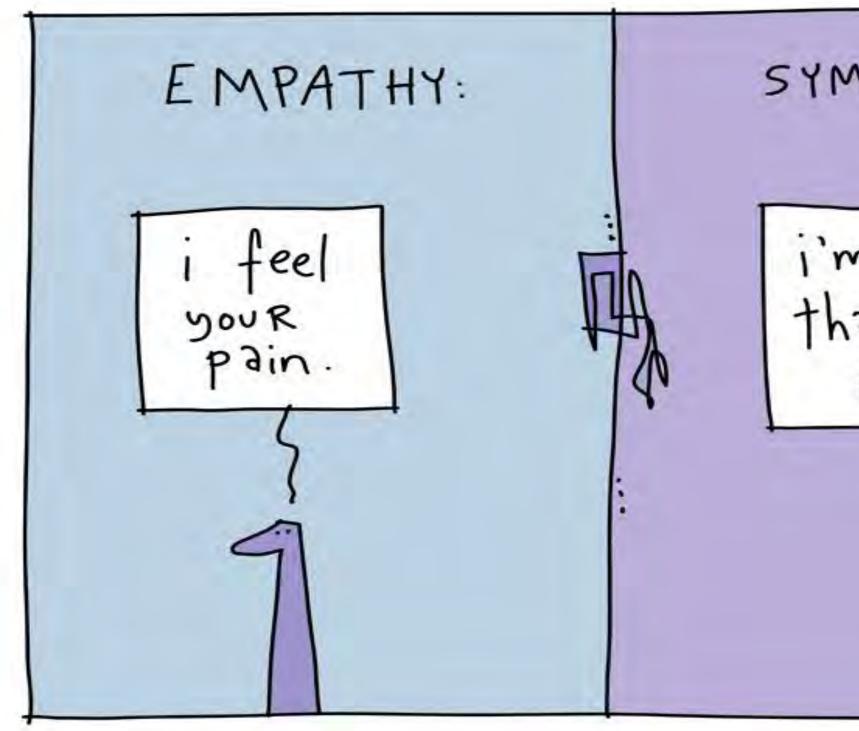
Which tools should be used?

What is?

What is? What if?

What wow?



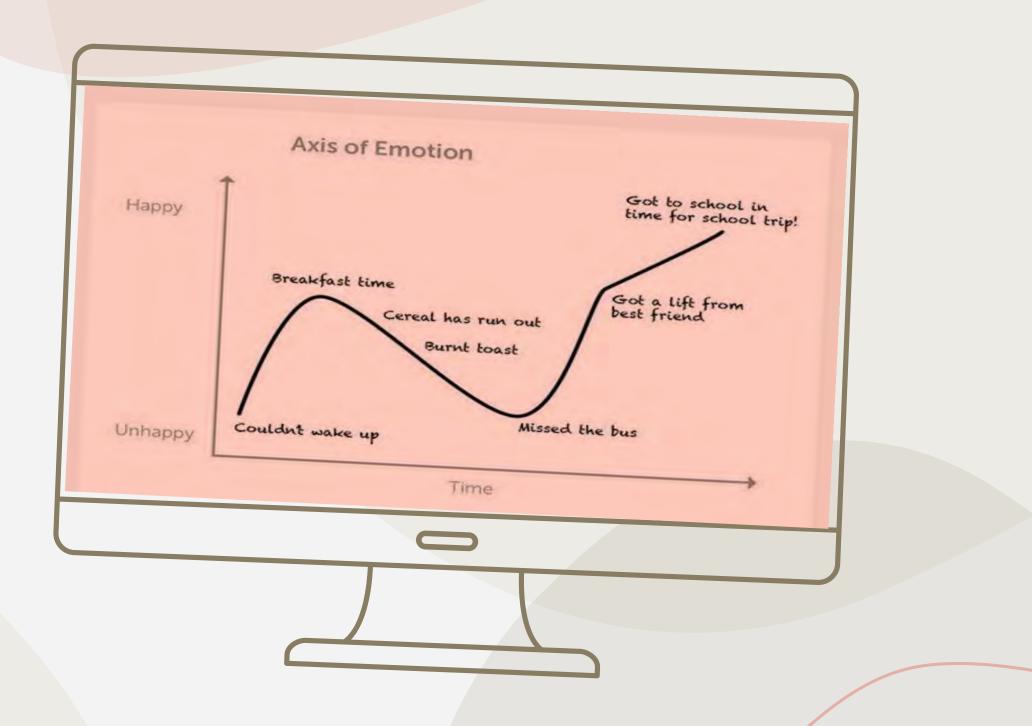


AXIS OF EMOTION

An example to portray an emotional state of people.

We may plot the emotional journey of a character in any time frame e.g., one day, one week, etc.

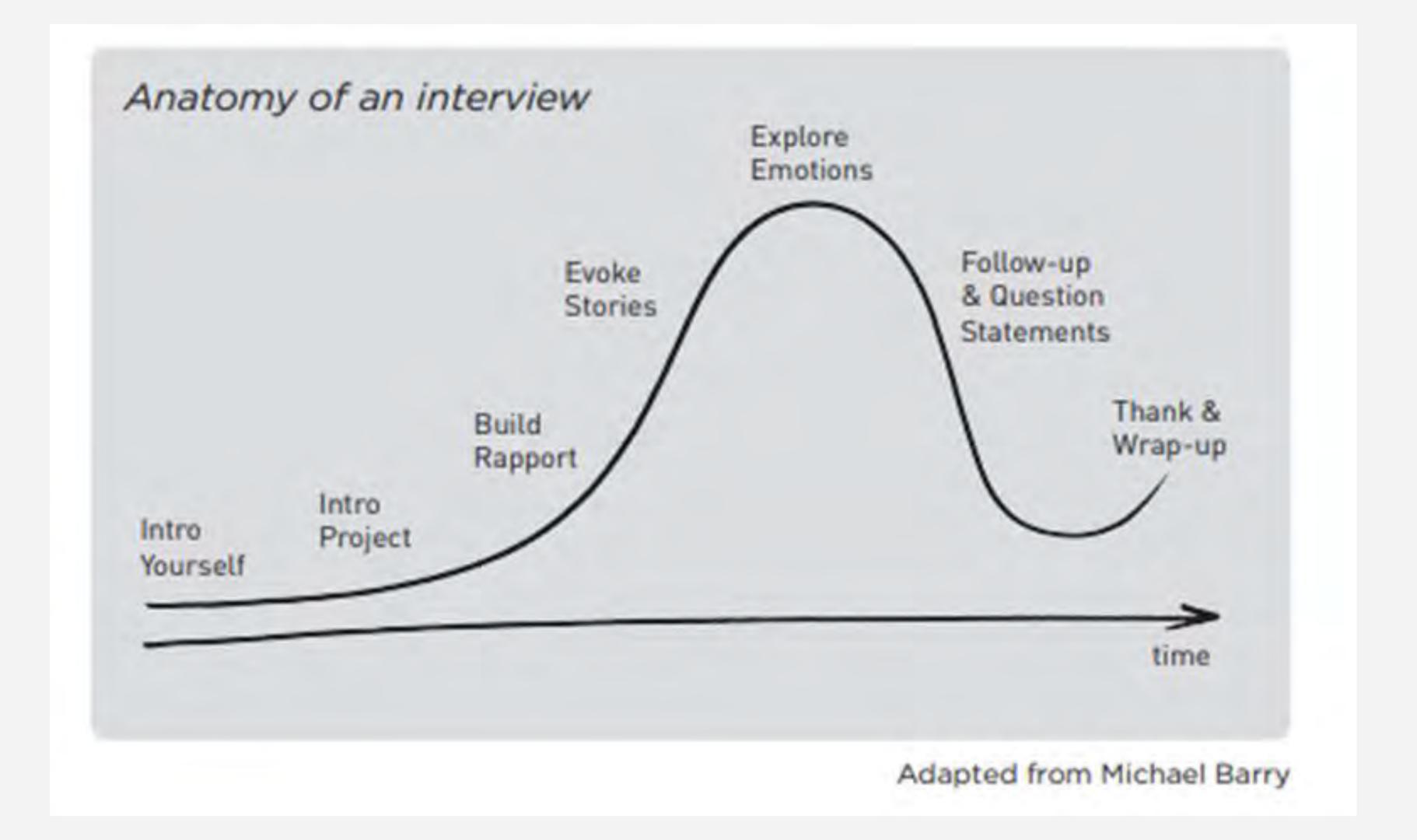
Plot time along the X axis and the level of happiness along the Y axis.

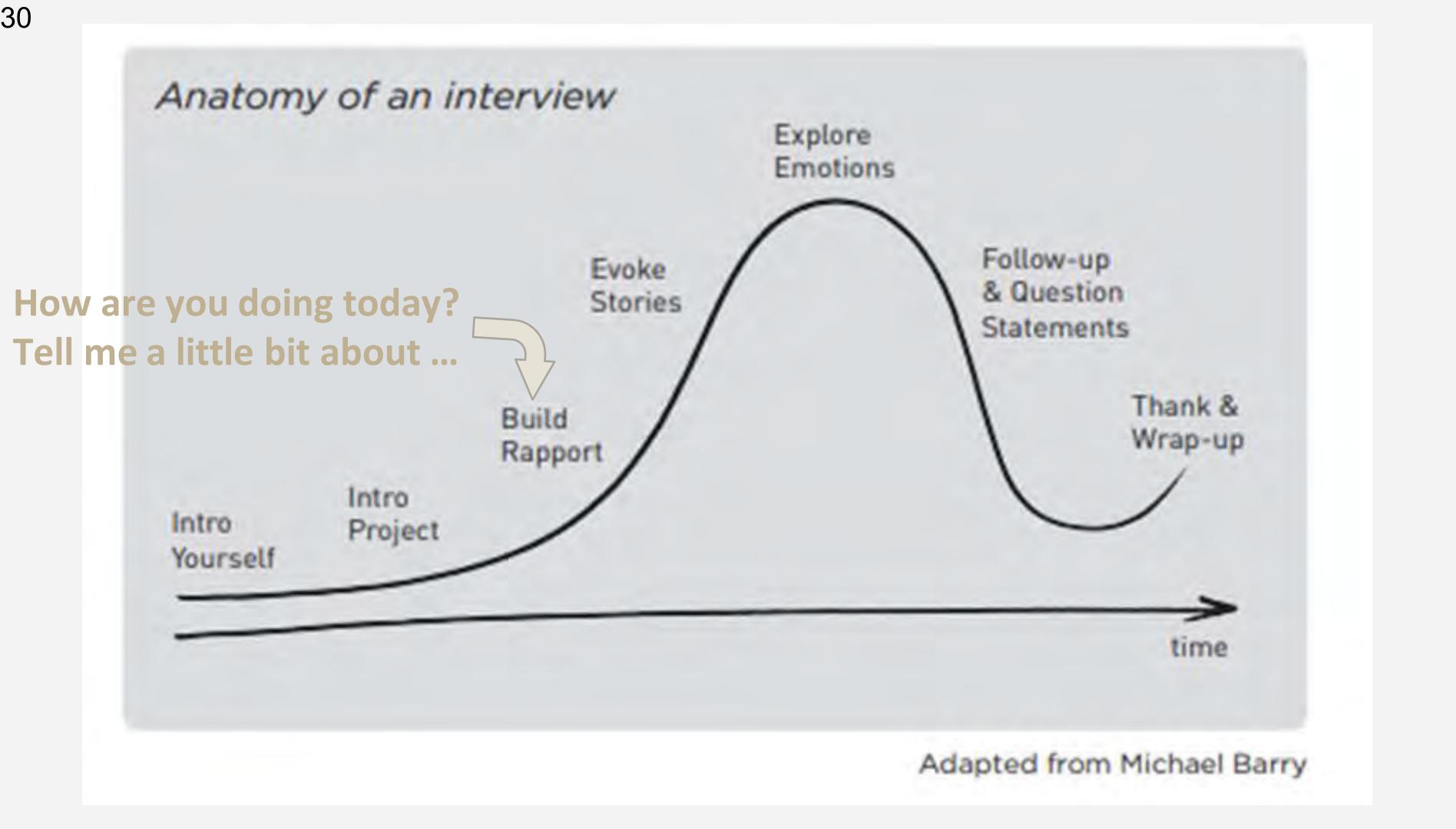


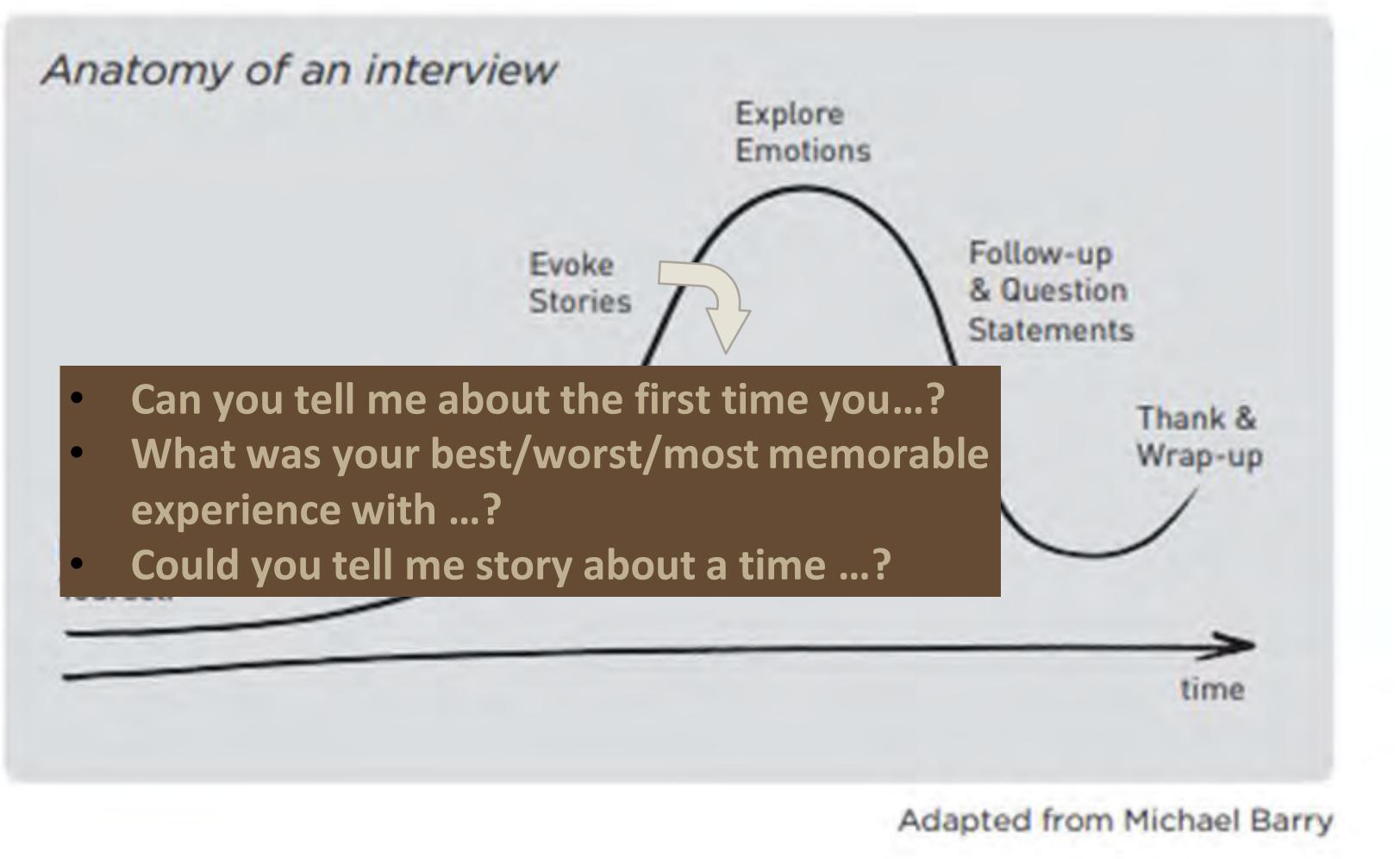
https://www.futurelearn.com/info/courses/teaching-literacy-through-film/0/steps/11357

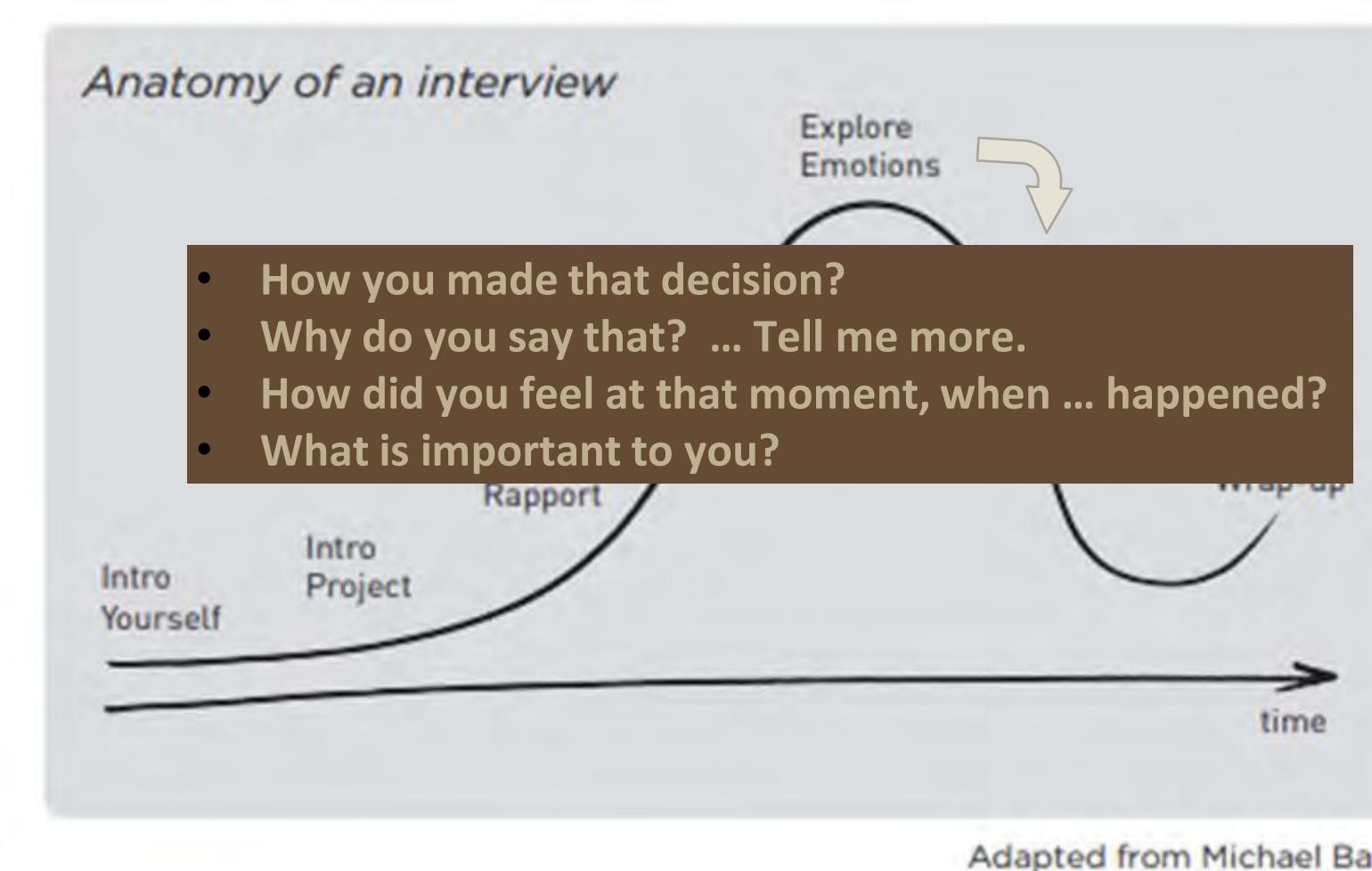
Нарру			
	$ \land$		
Unhappy	4	Tin	
Nervous when see the	First week → nervous decreases a little,	Do not get answered by Ajarns → feeling	Lot of work → prepar to understand paper
syllabus and schedule	Zoom makes better Second week → down again b/c of technical words, happy gone	so-so in the class If not get answers -→ feel sad → not stable	→ so hard & difficult till midnight → not clear → deadlines (tr to finish everything)

re	Happy but not sure about the grade after	Enjoy the first semester, the last class was memorable
y	assignments. Group work in class face to face is better (stress decrease)	and satisfied

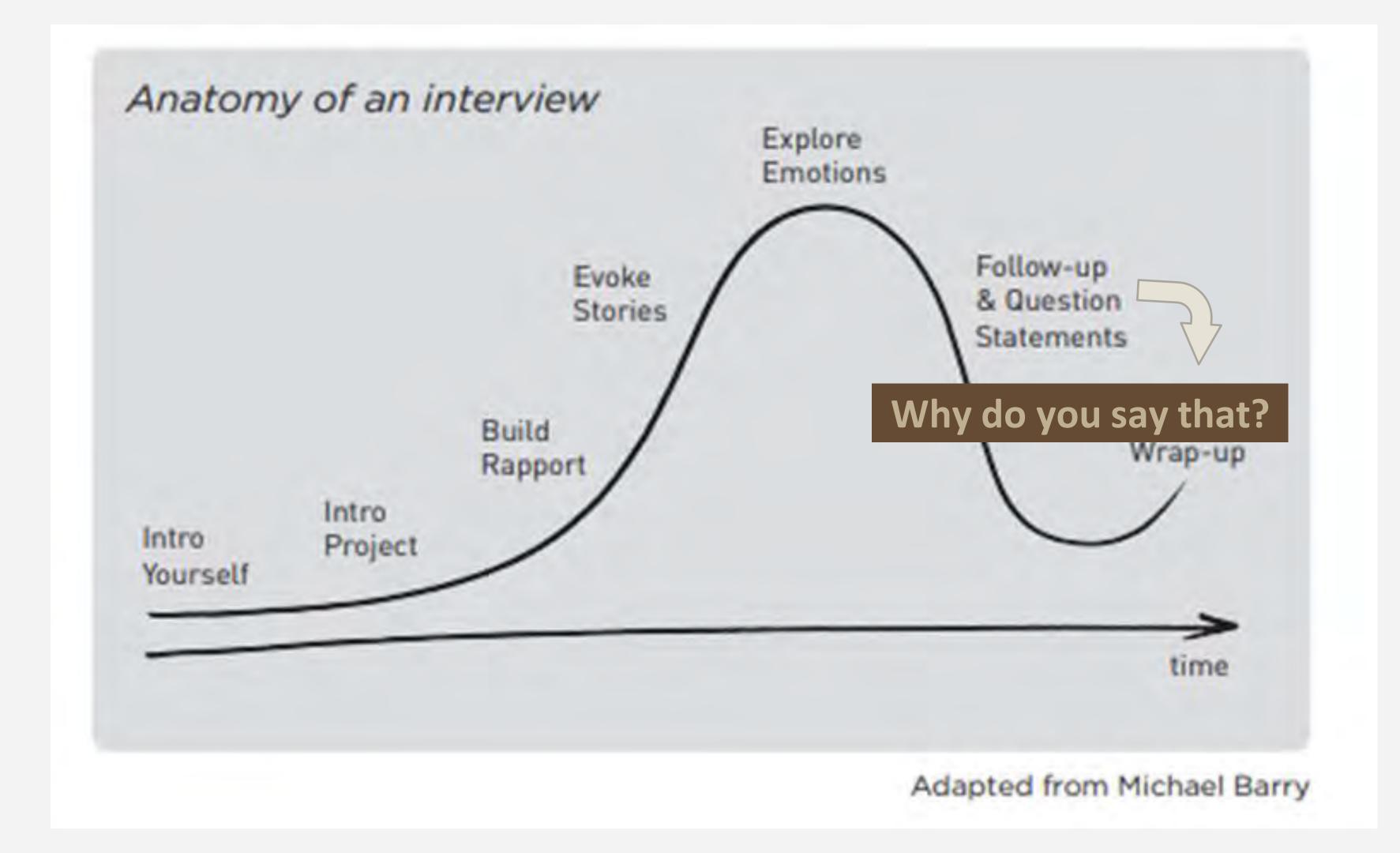








Adapted from Michael Barry



"Question Ladder"

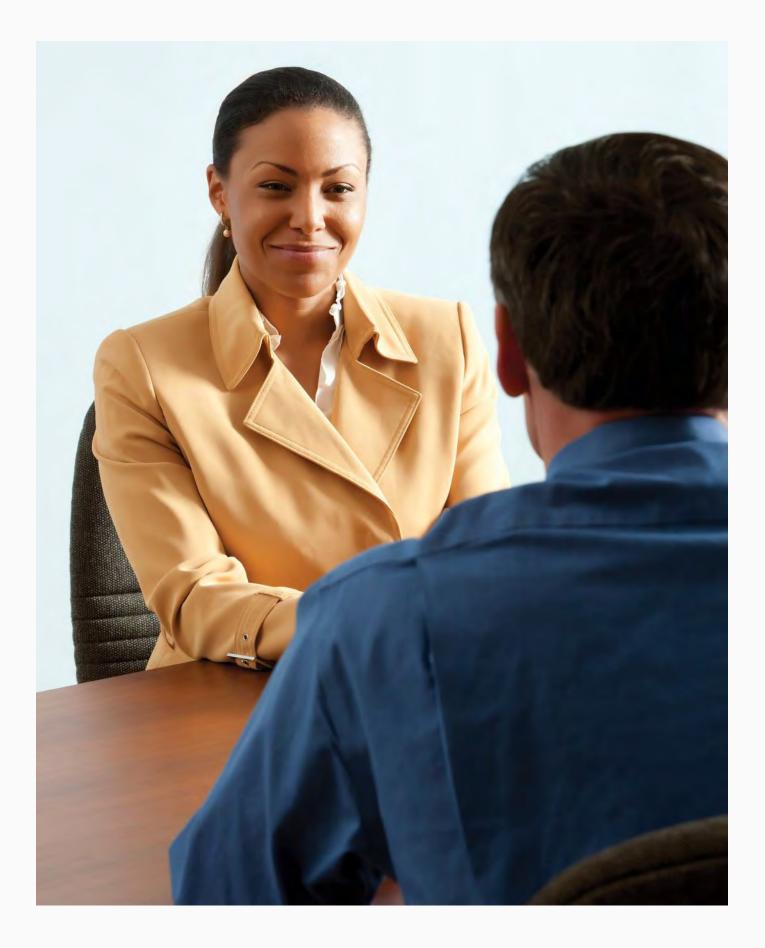
	Did	Is	Can	Will	Would	Might
Who	Who did	Who is	Who can	Who will	Who would	Who might
What	What did	What is	What can	What will	What would	What might
Where	Where did	Where is	Where can	Where will	Where would	Where might
When	When did	When is	When can	When will	When would	When might
Why	Why did	Why is	Why can	Why will	Why would	Why might
How	How did	How is	How can	How will	How would	How might



Interview Tips

- Don't suggest answers to your questions
- Don't be afraid of silence
- Look for inconsistencies
- Be aware of nonverbal cues (e.g., body language, sighs, eye contact, etc.)
- Stay on the same path of question (go deeper)
- Be an empathic listener





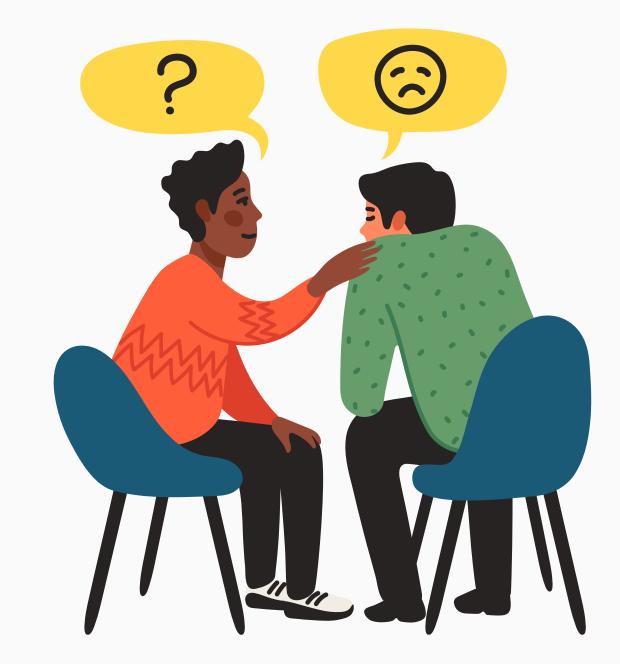
Empathy Interview

How you encourage people to disclose their life stories that helps uncover their needs?

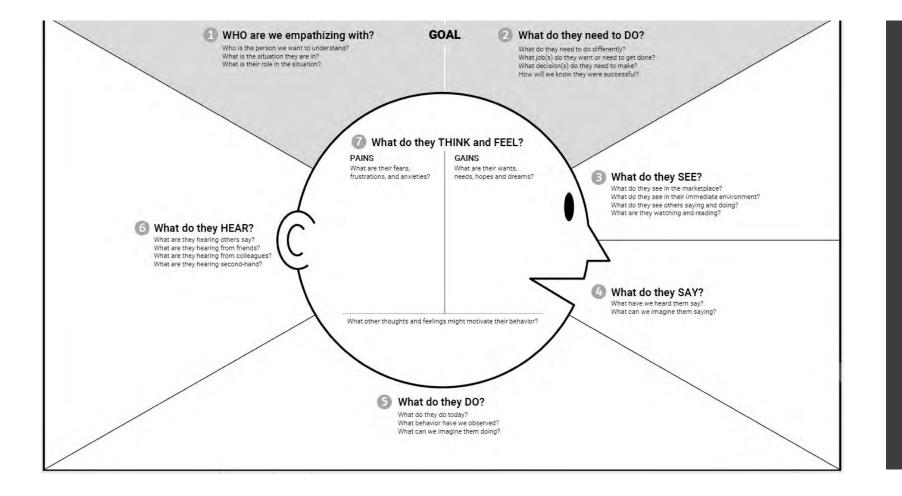
MU-ADP Level 1: Design Thinking

Empathy Interview

- More like a conversation, not Q&A
 - Looks for "the stories", not right/wrong or yes/no answer
 - Gestures, tones of voice, facial expressions are also included



What is an Empathy Map?



A visualized tool that help you capture feelings and behavior as well as directing you to disclose "insight" of individual person.

WHO are we empathizing with?

Who is the person we want to understand? What is the situation they are in? What is their role in the situation?

GOAL

What do they THINK and FEEL?

PAINS What are their fears, frustrations, and anxieties?

T

GAINS What are their wants, needs, hopes and dreams?

What do they HEAR?

What are they hearing others say? What are they hearing from friends? What are they hearing from colleagues? What are they hearing second-hand?

What other thoughts and feelings might motivate their behavior?

What do they DO?

What do they do today? What behavior have we observed? What can we imagine them doing?

What do they need to DO?

What do they need to do differently? What job(s) do they want or need to get done? What decision(s) do they need to make? How will we know they were successful?

4

What do they SEE?

What do they see in the marketplace? What do they see in their immediate environment? What do they see others saying and doing? What are they watching and reading?

What do they SAY?

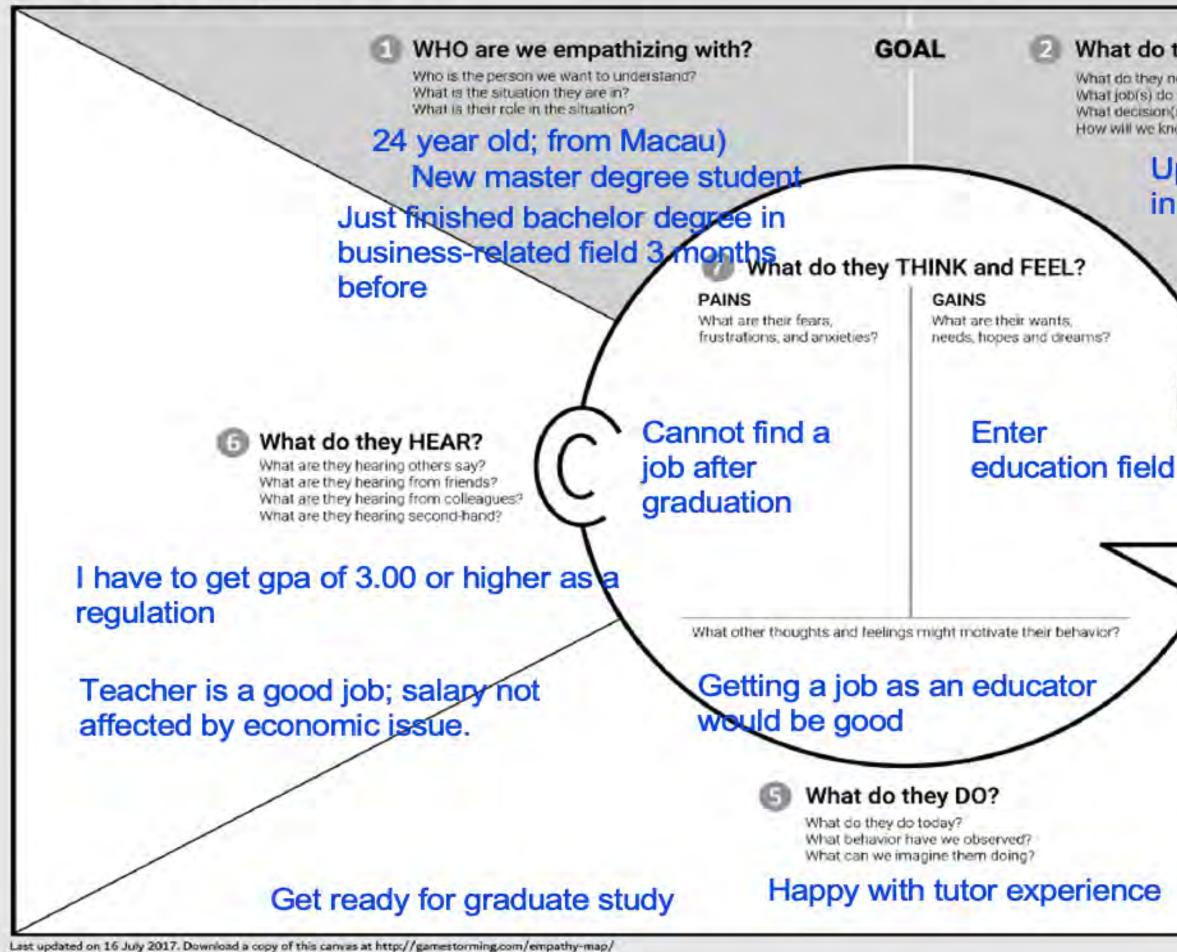
What have we heard them say? What can we imagine them saying?

Examples of Empathy Map

Empathy Map Canvas

Designed for:

Designed by:



Date:

Version:

What do they need to DO?

What do they need to do differently? What job(s) do they want or need to get done? What decision(s) do they need to make? How will we know they were successful?

6

Upskill to apply for a job (maybe in education sector)

What do they SEE?

What do they see in the marketplace? What do they see in their immediate environment? What do they see others saying and doing? What are they watching and reading?

His mother is an English teacher.

What do they SAY?

What have we heard them say? What can we imagine them saying?

I'll try my best.

Situation in Macau is complicated.

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Practicing Empathy Interview

