Design Thinking for Librarians: Making Value to Approach Problem-Solving

JOEMAR D. SAJONA, RL. MLIS
Philippine Normal University





I am Joemar

A Librarian, Teacher, Technology Consumer, Father and Husband to my wife,
Trying to be responsible and committed both in my personal and professional life,
My priority is my Integrity.





Stop telling yourself you're not qualified, not worthy or not experienced enough.

Growth happens when you start doing things you're not qualified to do.





Objectives



Recognize how design thinking works as a strategy of innovation;



Explore and explicate the Design Thinking Framework in relation to Librarianship



Gain valuable knowledge of the design thinking process

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Learn how to improve libraries based on the standards through a creative problem-solving approach

Training Outline

Session 1

- I. Fundamentals of Design Thinking
 - A. Definition
 - B. Key Components
 - C. Purpose
- II. The Design Process
 - A. Visualizing Design thinking
 - B. Design Thinking Framework

Session 4 Synthesis



Session 2

- III. Human Centered Design Approach
- IV. The Design Challenge
- V. Inspiration

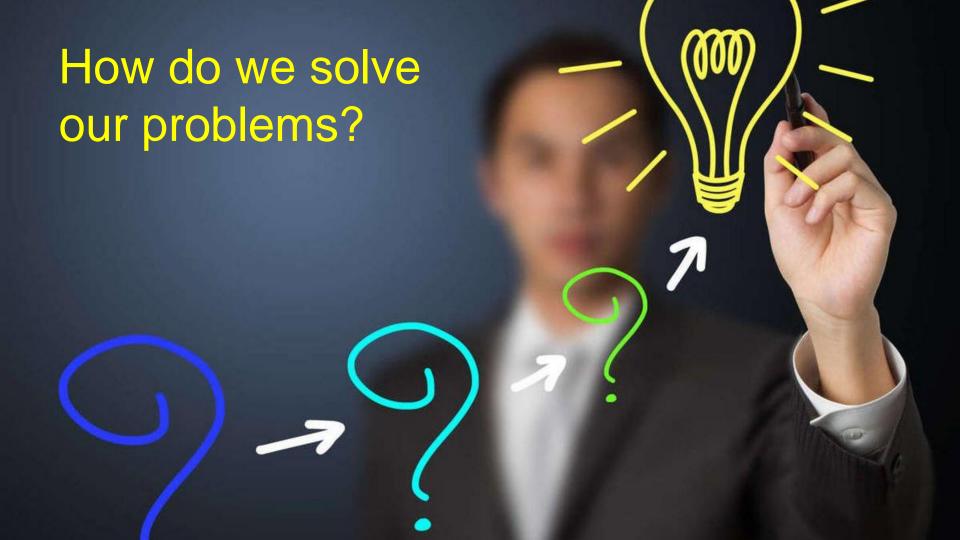
Session 3

VI. Ideation

VII. Iteration

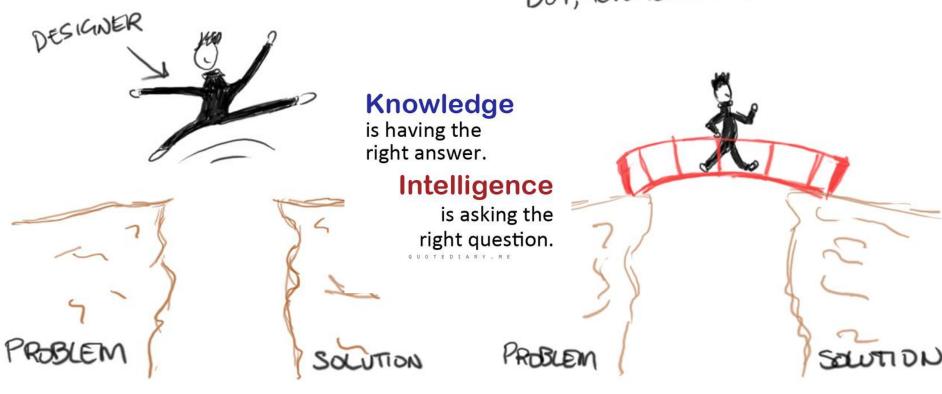


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BUT, ACTUALLY



DESIGN THINKING

an approach to solving design problems by understanding users' needs and developing insights to solve those needs.

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(Tim Brown, President and CEO, 2015)

esign thinking

A method of problem-solving strategy wherein the data collected is expressed visually in order to create new strategies, ways and methods to solve problems, create opportunities or strengthen weaknesses.

noun [dəˈzīn-THiNGkiNG]





"Identifying the actual problem is the key to the right design solution"

Design Thinking





Design Thinking is all about approaching problems with a fresh perspective..

and that mindset?



Only through contact, observation & empathy with end-users can you hope to design solutions that fit into their environment.

As opposed to?



We have this problem, let's jump in and get in a room and brainstorm solutions

We have this technology, what can we use it for?

Our competitors just launched X; how can we do X quickly



INSPIRATION

is about framing a design challenge and discovering new perspectives on the opportunity.

I have a challenge.

How do I approach it?



IDEATION

is about generating ideas and making them tangible.

I've learned something

How do I interpret it and express my ideas?



ITERATION

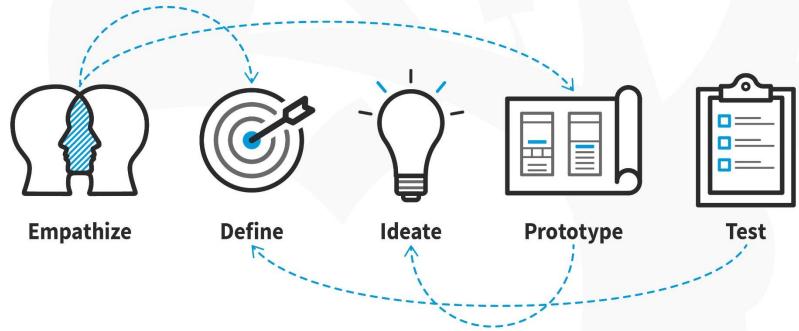
is about continual experimentation based on user feedback.

I have a prototype.

How do I
Test it with users
and refine it?

Design Thinking: A 5-Stage Process





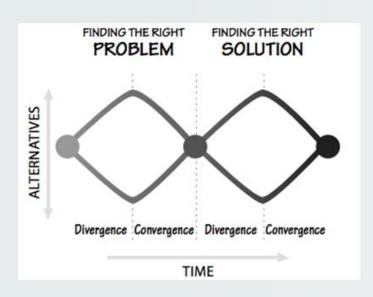
Interaction Design Foundation interaction-design.org

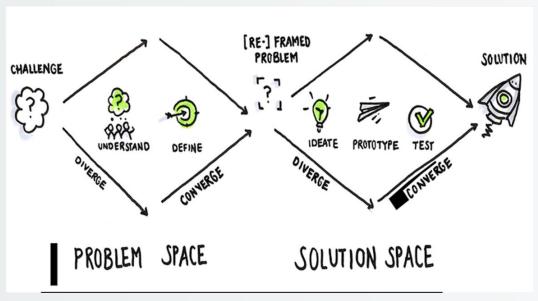


The Design Process

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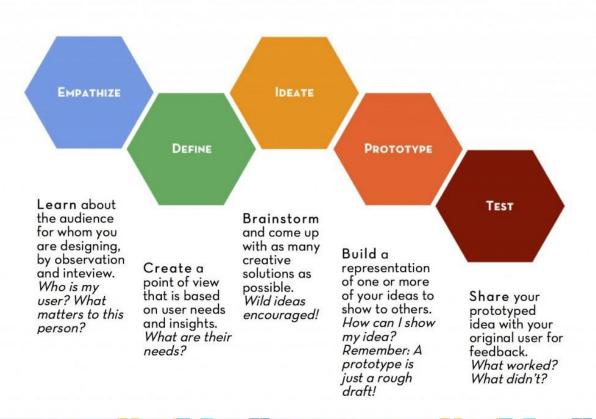
Visualizing Design Thinking

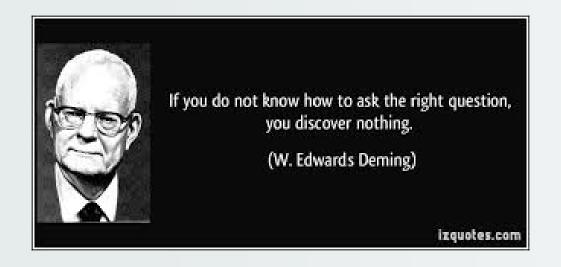


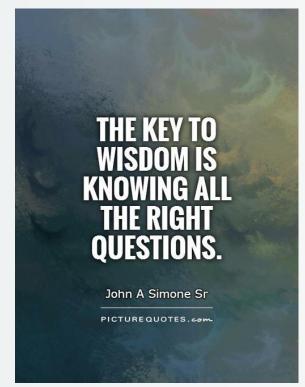


Visualizing Design Thinking

We are all DESIGNERS!



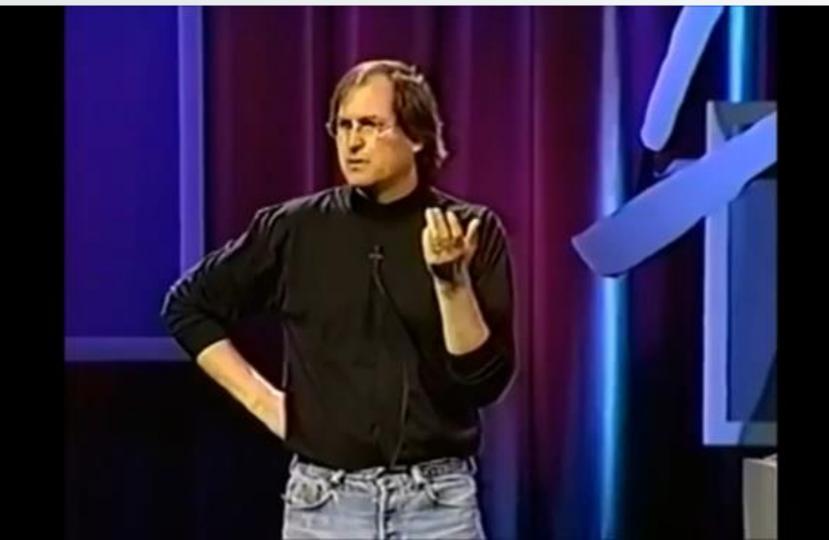


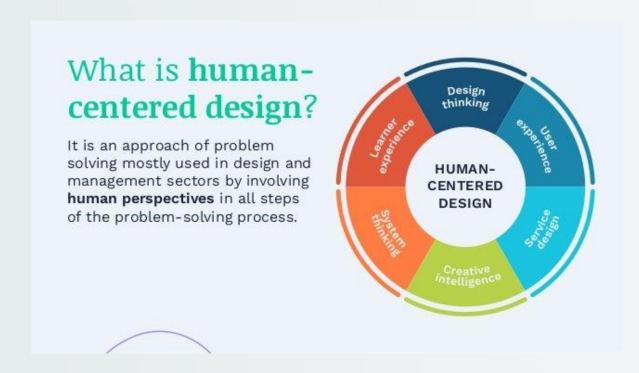




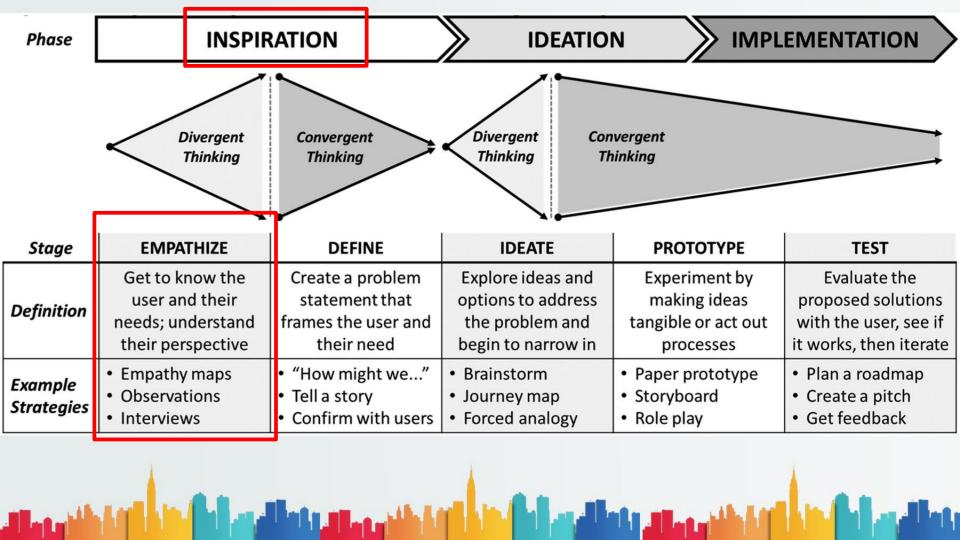
Human Centered Design Approach

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 Believing that the people who face those problems everyday are the ones who hold the key to their answer.





We record the details (not assumptions) of what has happened

We analyze how the person is doing, what he/she is doing



We make educated guesses regarding the person's motivations and emotions

Communicate your

Ask What? How? Why?



What?

How?

Why?





Define your Challenge

Goal: Write our DESIGN CHALLENGE

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 What is something you have been wanting to change in your library that would help you adapt with the new CMO No. 22. S.2021?

Choose one (1) section:

- 1. VMGO
- 2. Administration
- 3. Human Resources
- 4. Collection Management
- Services and Utilization
- 6. Physical Facilities
- 7. IT Infrastructure and Services
- 8. Financial Resources
- 9. Linkages and Networking



CMO No.22 S.2021

Section 1: VMGO - Problem: Awareness of the Library VMGO.

Section 2: Administration - Problem: Library Feedback mechanism

Section 3: Human Resources – Problem: Knowledge succession among librarians

Section 4: Collection Management— Problem: Digitization of Print Materials

Section 5: Service and utilization – Problem: Support to online teaching and flexible learning modalities

CMO No.22 S.2021

Section 6: Physical Facilities - Problem: Facilities for PWD.

Section 7: ICT – Problem: ICT Infrastructure

Section 8: Financial Resources – Problem: Augmentation of financial resources

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Section 9: Linkages and Networking– Problem: Library community service learning

DEFINE THE DESIGN CHALLENGE

- Brainstorm and answer the guestions:
 - 1. Who is your target user group?
 - 2. What problems they struggle with that you could solve? (maximum 3 answers)
 - Is there the potential to explore multiple solutions, what are those (Maximum 2 answers)

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• Write a design question to help you contain the scope. Write two How Might We questions:

How might we....

DEFINE THE DESIGN CHALLENGE

Framing the design challenge:

Sample Design Challenge:

How might we improve the application of BC in the library in the new normal?

Your design challenge:

How might we....

What activities & emotions comprises this experience? Give at least 3 answers

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Activity 1: Output Presentation

Define your Challenge

Goal: Write our DESIGN CHALLENGE

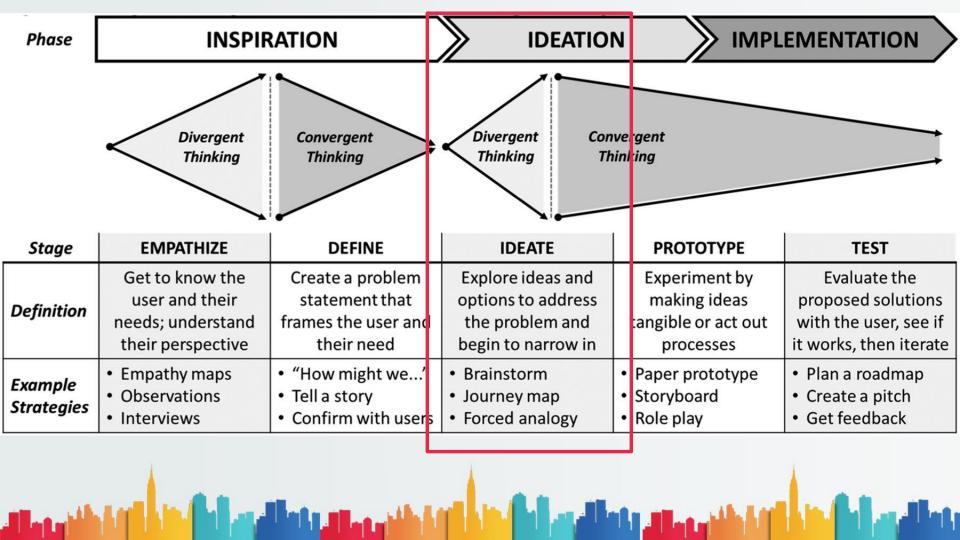
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Ideation

Challenge Assumptions and Create Ideas

Ideation is when you generate a lot of new ideas in order to create a design solution.





To **generate** a large quantity of **ideas** that the team can then filter and cut down into the best, **most practical** or most **innovative** ones in order to inspire new and better design **solutions and products**.

Connecting: Be able to connect seemingly unrelated concepts, attributes or themes in order to create new possibilities.

Disrupting: Be able to overturn commonly held beliefs, assumptions or norms in order to re-think conventional approaches.

Flipping: Turn dead-ends or deadlocks into opportunities by flipping them over or rapidly changing direction towards greater viability.

Dreaming and Imagining: Be able to visualize a new picture of reality by turning abstract needs into tangible pictures or stories, thereby allowing the space required for inventing bridges to that reality.

Experimental: Be open and curious enough to explore possibilities and take risks; be willing and eager to test out ideas and eager to venture into the unknown.

Adapting: Be able to switch how you see, understand, and extend thinking as new input gets generated.

Recognise Patterns: Seek to spot common threads of meaning, and ways of seeing, doing and behaving; be able to recognise attributes or shared values across a spectrum of influence and input; and finally be able to utilize these commonalities to build solutions.

Curiosity: Be willing to ask uncomfortable, silly or even crazy questions. Be willing to explore and experience, in order to understand and learn something new and different.



Breaking the challenge up into smaller actionable pieces. Look for aspects of the statement to complete the sentence, "How might we...?"

This will spark your imagination and aligns well with the core insights and user needs that you've uncovered.

Sample Design Challenge:

How might we improve the application of BC in the library in the new normal?

convenience, seamless and availability

processes, services and product

Possible solutions and answering them in variety of ways.

Beware!

We all fall into the trap of sticking to patterns and familiar ground, and tend to use the same recipes for solving problems, as this reduces the <u>cognitive load</u> required. (Interaction Design Foundation, 2022.)

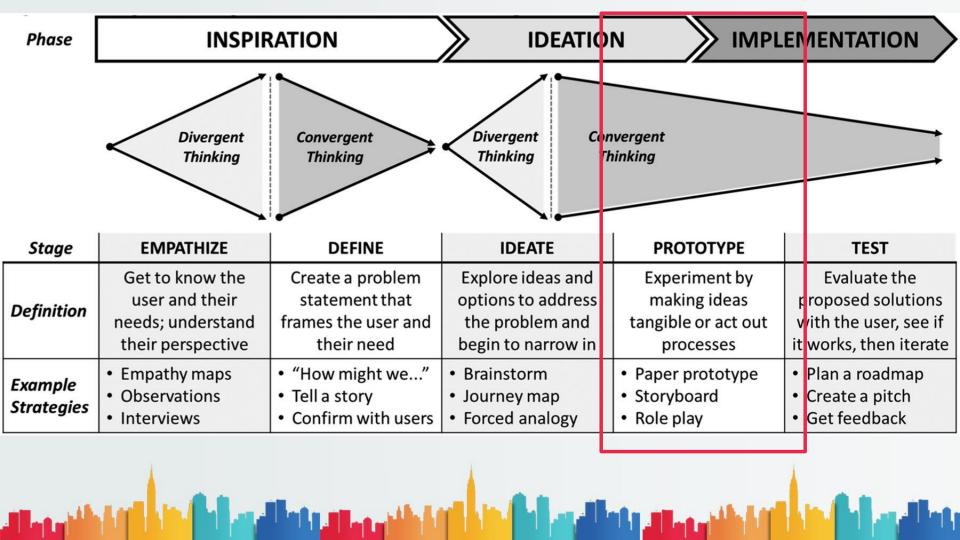
Experts and novices alike need to be constantly self-aware and purposely in tend to adopt some of the following characteristics, which create an open mind and fertile ground for sparking unconventional ideas.



Prototyping

Create a tangible visual representation of the solutions discussed throughout the design process.

https://www.workshopper.com/post/design-thinking-phase-4-everything-you-need-to-know-about-prototyping



Bringing your ideas to reality:



Model

Digital Mock-up



Role-playing

Bringing your ideas to reality:





New Spaces



It's not about coming up with the 'right' idea, it's about generating the broadest range of possibilities

 d.school, An Introduction to Design Thinking PROCESS GUIDE



Proto-typing

Goal: Create your own Concept Map that illustrate your prototype

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Example:



first-generation immigrants w/ Englishfuent, us-born children.





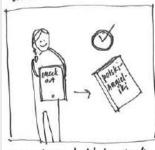
wareness point. Market the English Language Learners App M Studools.

bounfold app + use:



user donnloads app and sees where polish resources are located throughout library system.

use:



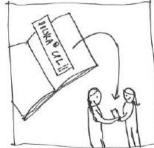
user places hold to check out an English Polish dictionary through the cote.

use in library:



she taen goes to the library and bottor navigates to her book on hold with bilingual signage.

Advocate:



she receives a free bookmark in the dictionary that ancowages horto spread fre word. She sples the bookmark with apping to a fellow polish friend.



Activity 2: Output Presentation



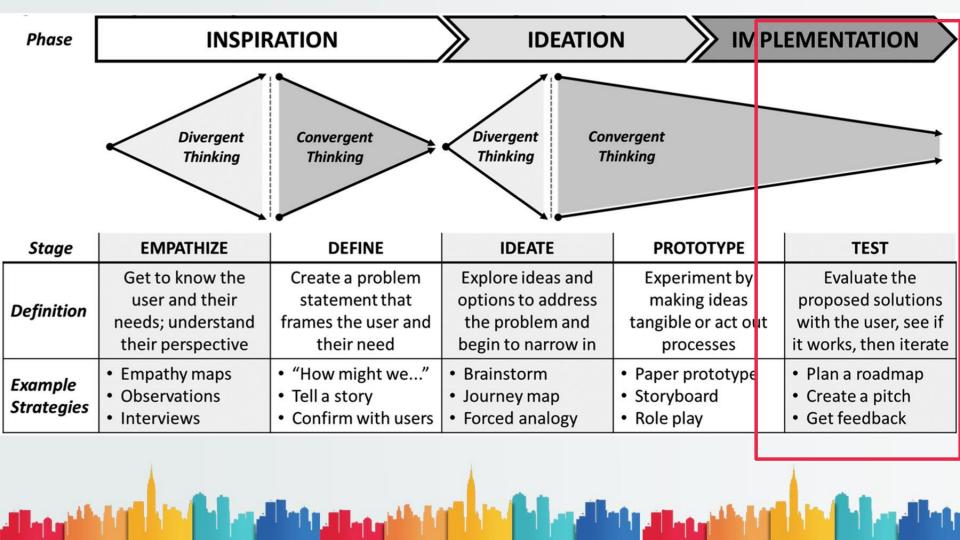


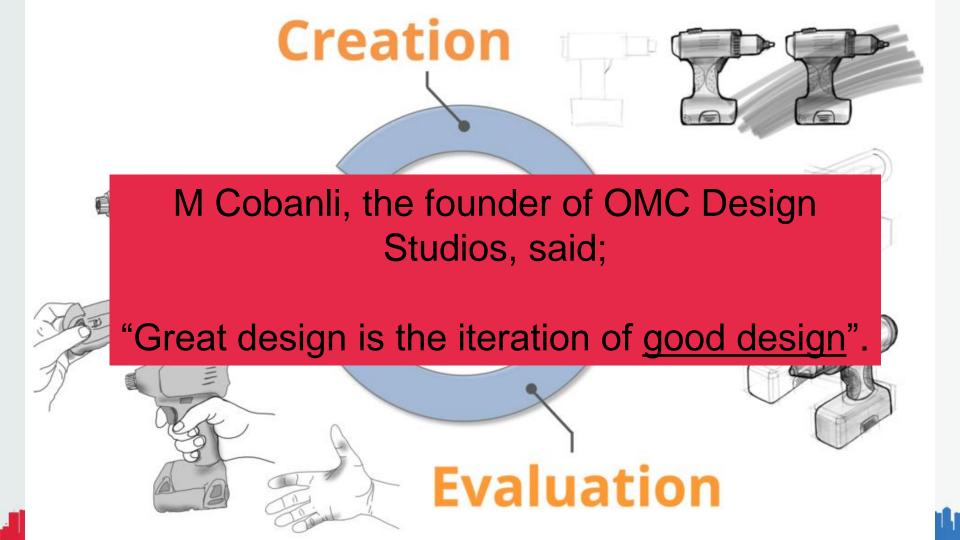
Iteration

Design thinking is result-oriented and is therefore based on continuous improvement.

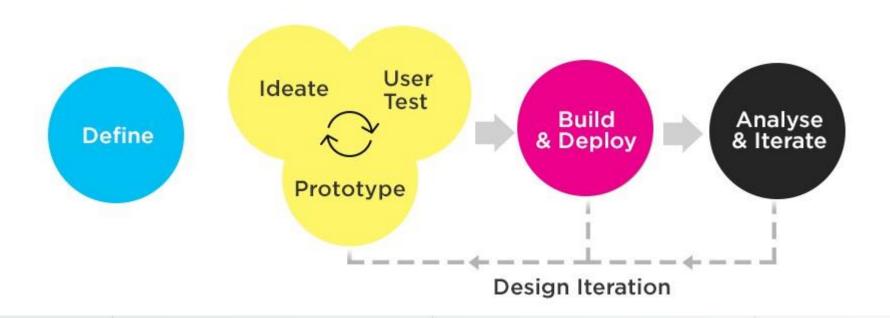
https://bootcamp.uxdesign.cc/the-power-of-design-iteration-73a01063c5de

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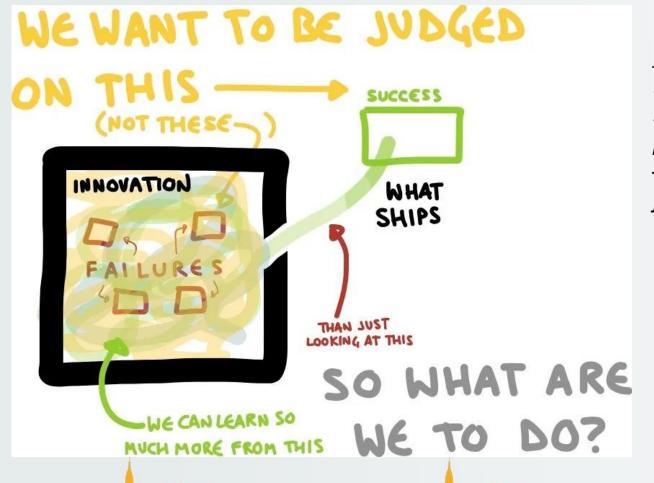
the Design process that delivers



Why does iterative design exist?







Design iteration means learning from failure before putting a product in front of users – so that you are judged on success.

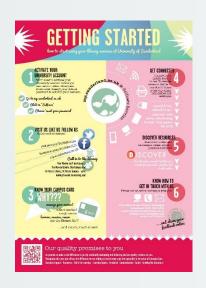
Author/Copyright holder: Willow Brugh. Copyright terms and license

: CC BY-SA 2.0

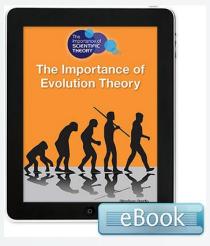
Samples of Iterative Design:



Reference Service



Library Services



eBook





Synthesis

Design thinking is result-oriented and is therefore based on continuous improvement.

https://bootcamp.uxdesign.cc/the-power-of-design-iteration-73a01063c5de

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Principles of Design

Christoph Meinel and Larry Leifer of the HPI-Stanford Design Thinking Program

THE HUMAN RULE

all design activity is ultimately social in nature, and any social innovation will bring us back to the human-centric point of view

THE AMBIGUITY RULE

design thinkers must preserve ambiguity by experimenting at the limits of their knowledge and ability, enabling the freedom to see things differently

THE RE-DESIGN RULE

all design is re-design; this comes as a result of changing technology and social circumstances but previously solved, unchanged human needs

THE TANGIBILITY RULE

the concept that making ideas tangible always facilitates communication and allows designers to treat prototypes as communication media

Implementing New Ideas = VALUE



Innovation Drivers

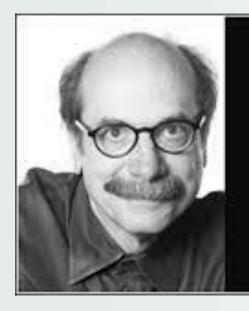






Increasing Customer Expectations





The main tenet of design thinking is empathy for the people you're trying to design for. Leadership is exactly the same thing - building empathy for the people that you're entrusted to help.

- David M. Kelley -

AZQUOTES

Thank You For Your Time Today

ANY QUESTIONS?

jdsajona@gmail.com