Design Thinking

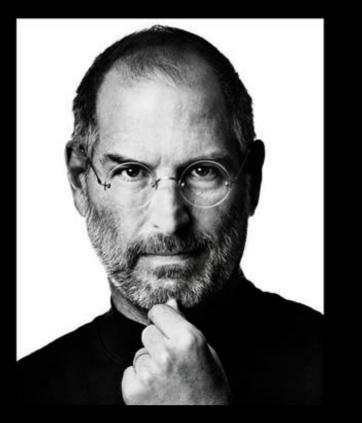
University of Applied Sciences Zweibrücken Dr. Holger Wittmer, Sascha-Heiko Magold February 2019



S DESIGN THINKING 22?

WHAT IS DESIGN THINKING?

"DESIGN is not just what it looks like and feels like. Design is how it works." – Steve Jobs

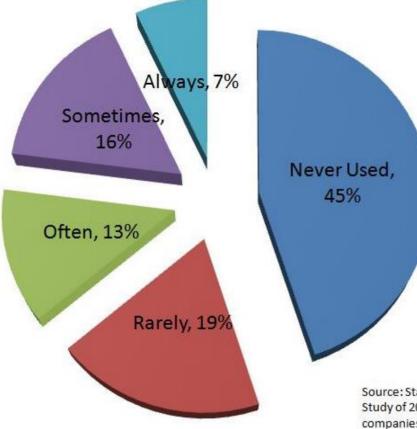




"If I'd asked people what they wanted, they would have said a faster horse." - Henry Ford, shown here with the Model T

DESIRABILITY Create something your users need.

Usage of Features and Functions in Typical System



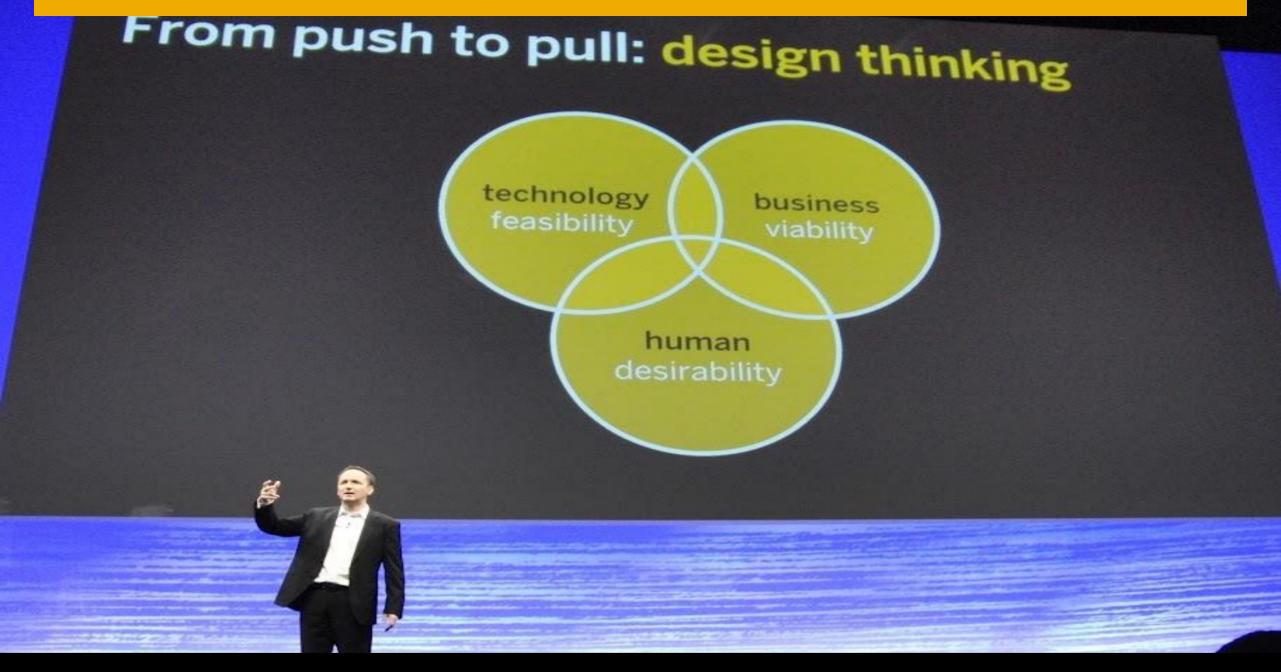
64 % of Software is unused

Source: Standish Group Study of 2000 projects at 1000 companies

DESIGN THINKING means...

...creating INNOVATION by combining diverse PEOPLE, creative SPACE and an iterative APPROACH.

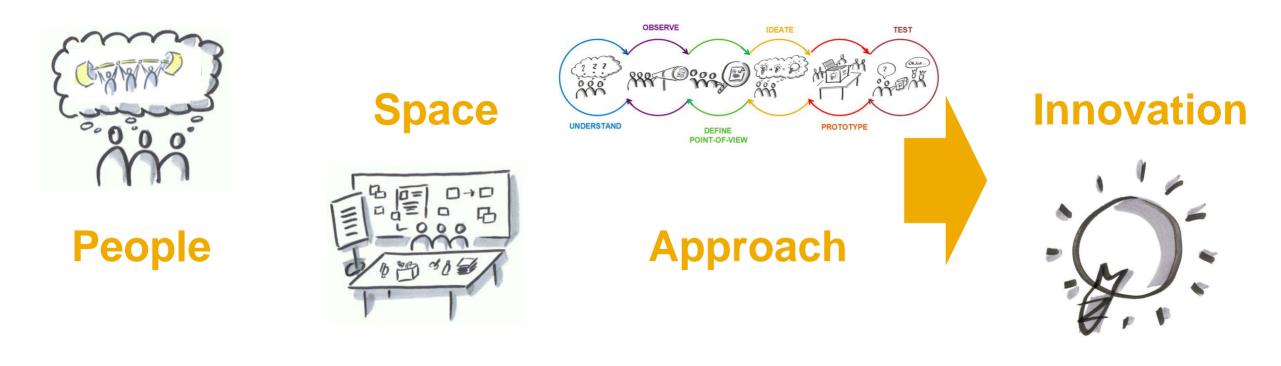
WHAT IS INNOVATION?



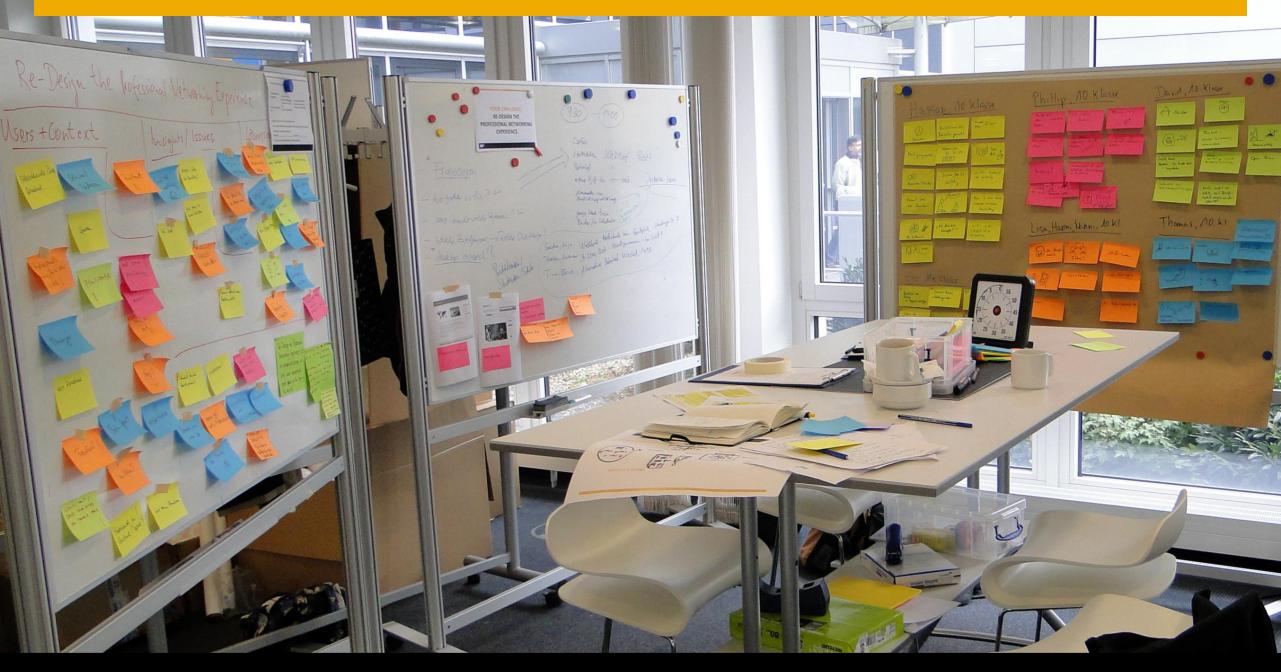
INNOVATION *Desirability* + *Feasibility* + *Viability*.

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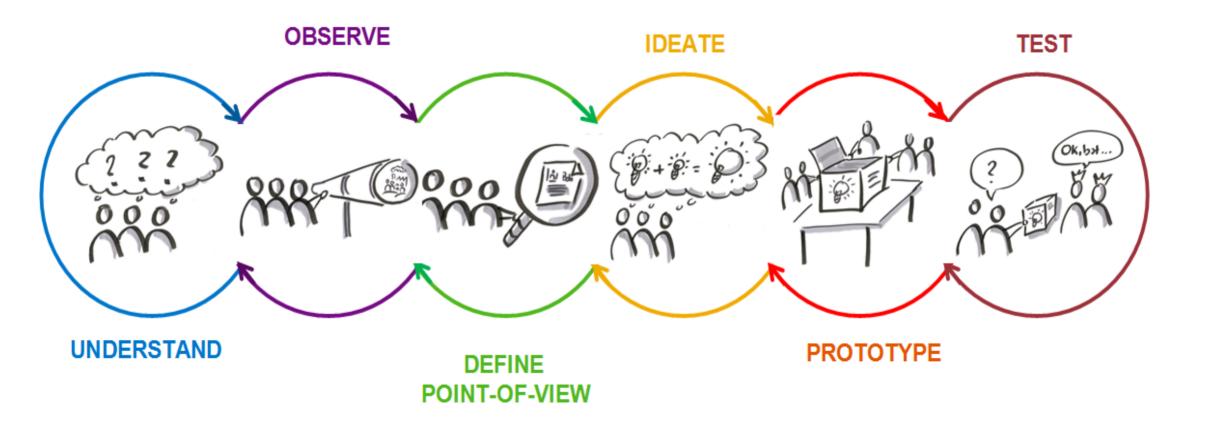
DESIGN THINKING



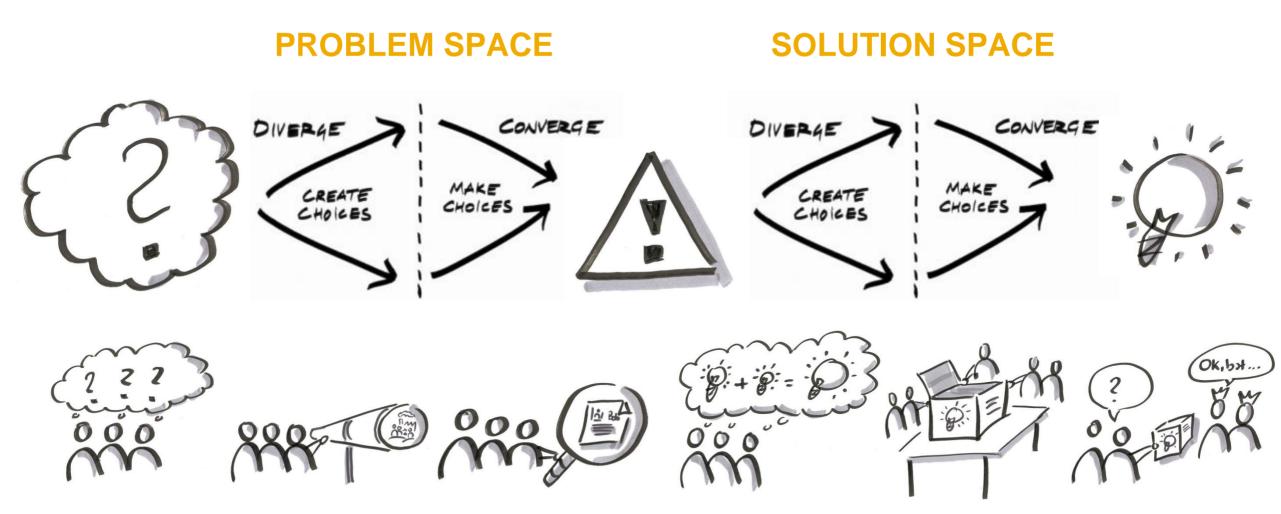
"Ingredients" for Design Thinking



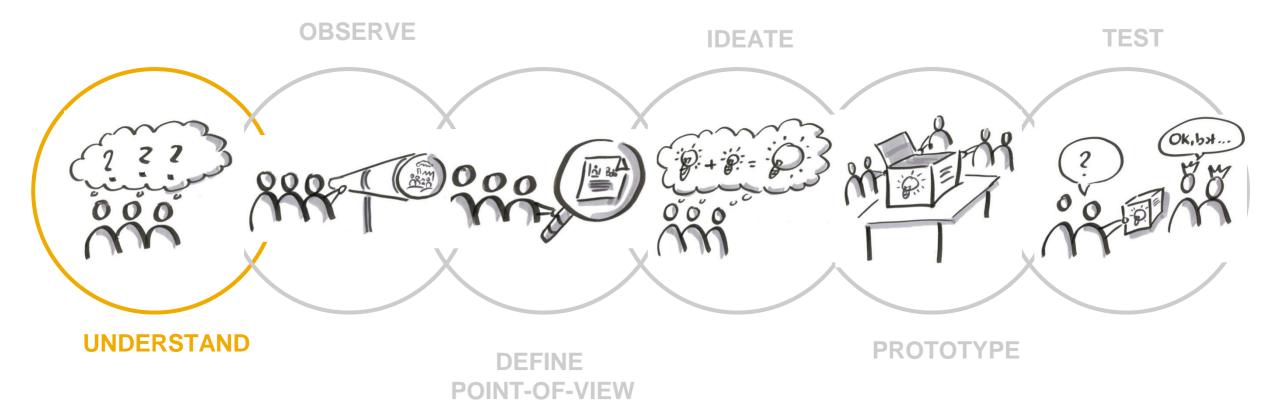
...and the freedom to explore.



THE DESIGN THINKING STEPS.



THINK LIKE A DESIGNER Go broad first and focus later.



WHERE ARE WE AT THE MOMENT?





WHY UNDERSTAND?



"Building something nobody wants is the ultimate form of Waste." – Eric Ries

1. Write the design challenge on a white board

2. Brainstorm relevant users/context.	 Brainstorm about potential insights/issues we can learn from the 	4. Brainstorm potential solutions based on the
Pick the most important user.	user. Pick one issue/insight.	insight/to solve the issue.

5. Repeat 3 and 4 for two to three important users.

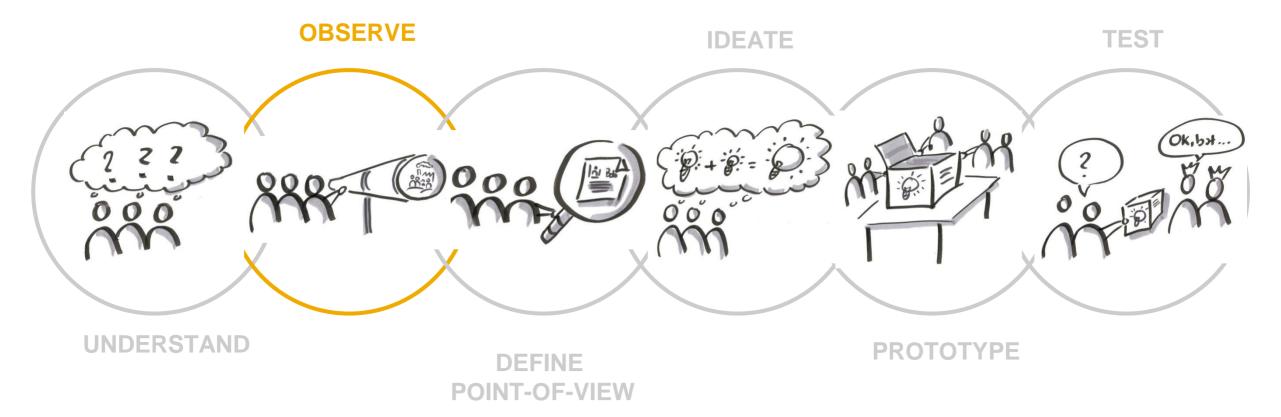
6. Ask yourself: What have we discovered? Which aspects are most interesting.

7. Rephrase your design challenge(s).

Redesign the ______ for _____ in a world where ______

You are now much better prepared to start your project.

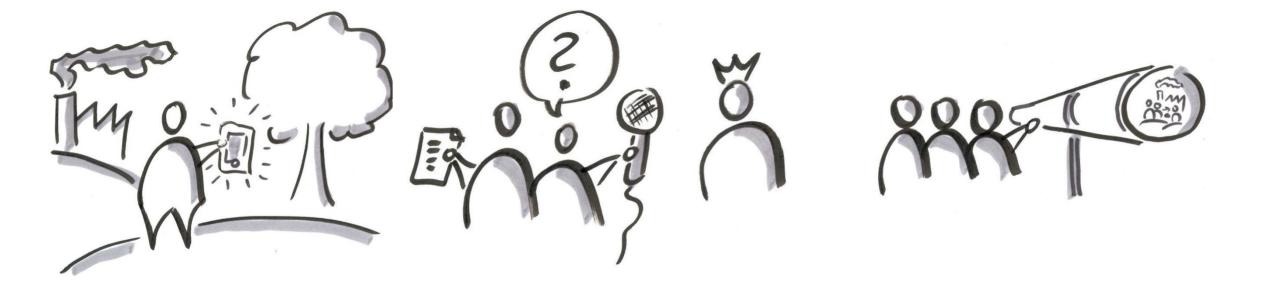
HOW TO CHARETTE.



WHERE ARE WE AT THE MOMENT?

"There Are No Facts Inside Your Building, **So Get Outside**." – Steve Blank

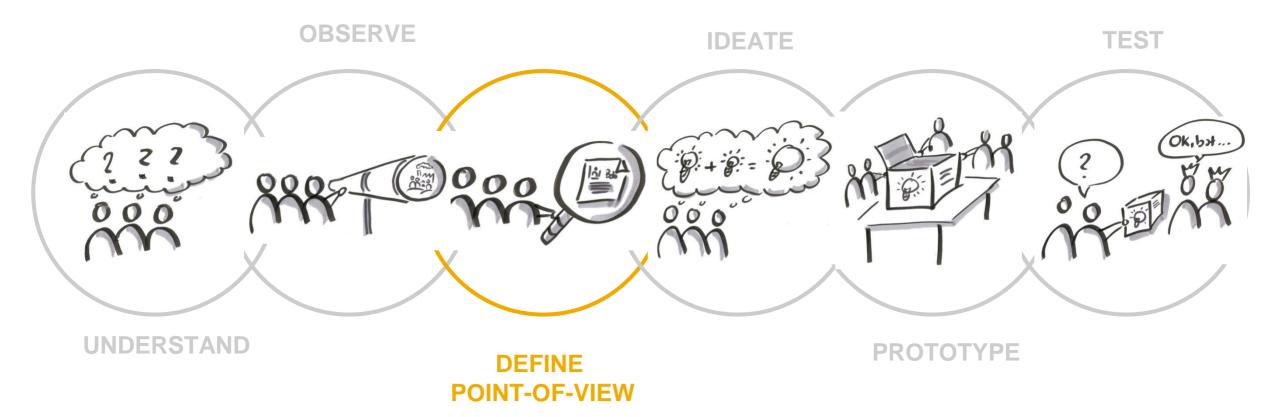




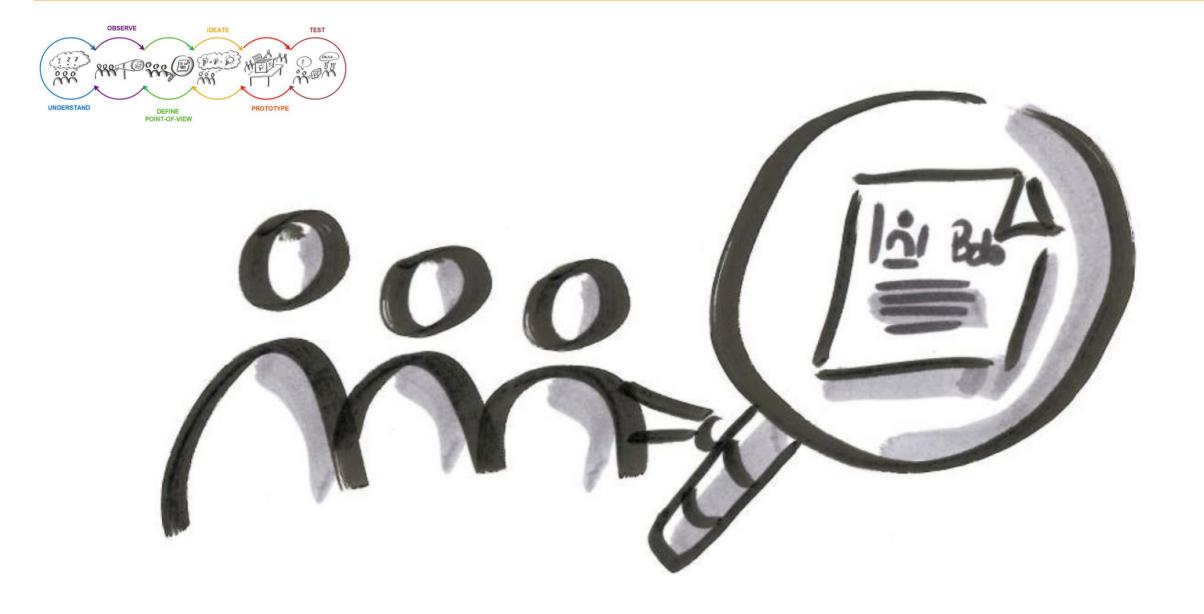
TRY AND DO ASK AND LISTEN WATCH AND OBSERVE

DIFFERENT METHODS OF OBSERVATION TO GET EMPATHY.

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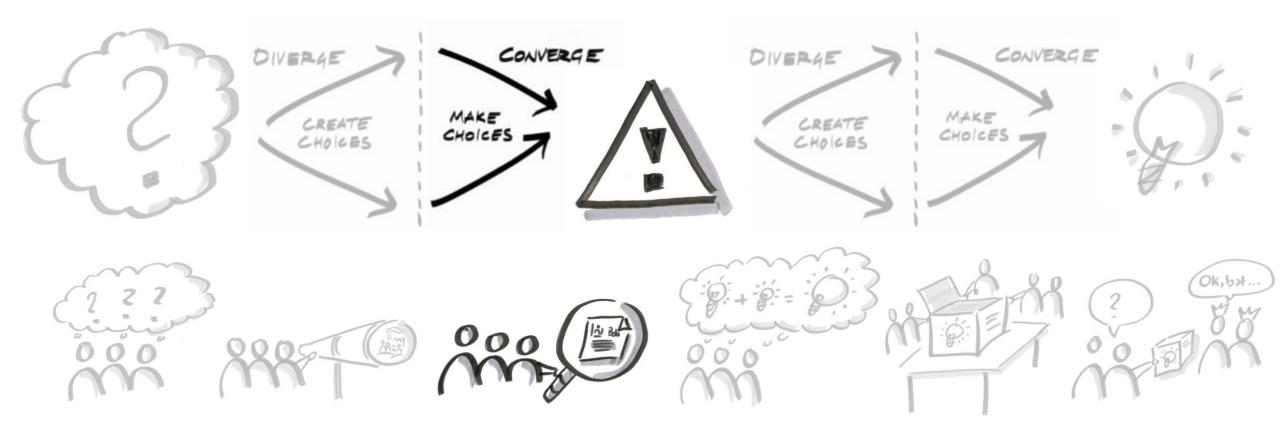
WHERE ARE WE AT THE MOMENT?



WHY DEFINE POINT-OF-VIEW?

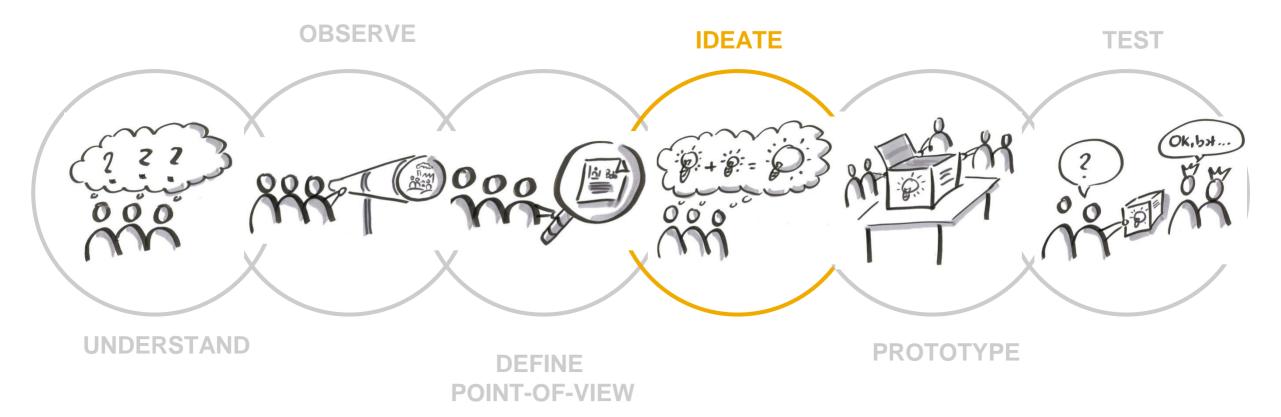
PROBLEM SPACE

SOLUTION SPACE



Define what YOU want to achive: Stay focused

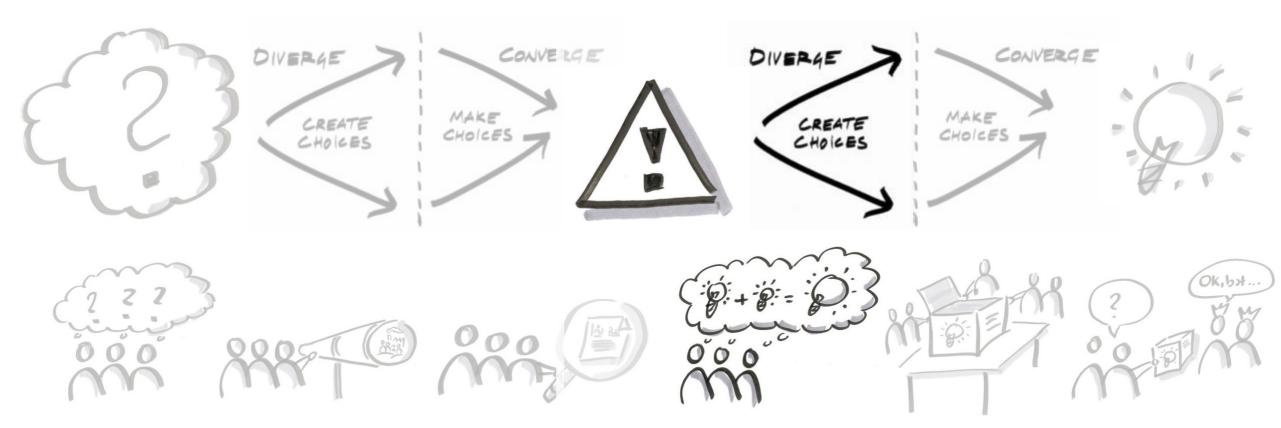
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WHERE ARE WE AT THE MOMENT?

PROBLEM SPACE

SOLUTION SPACE



Create lots of ideas bases on your focus



BUILD ON THE IDEAS OF OTHERS





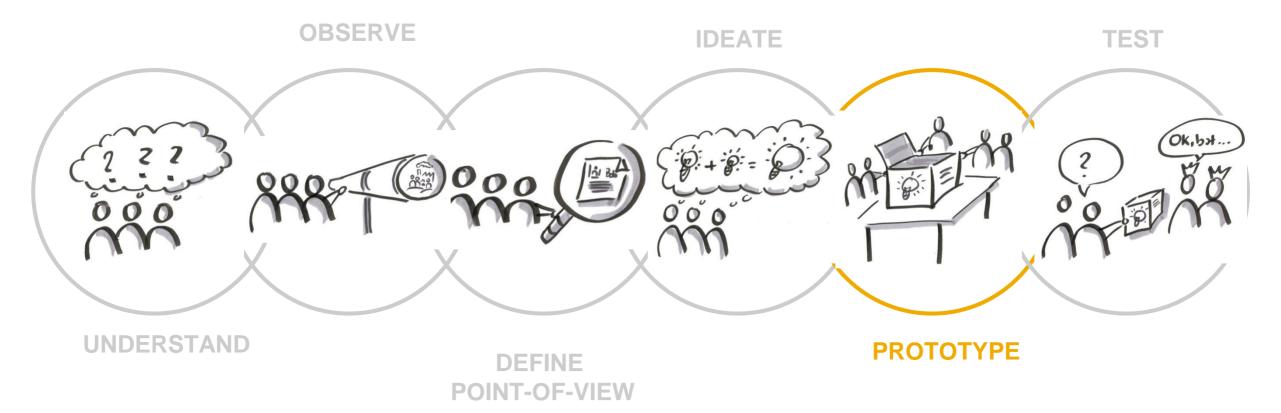




BRAINSTORMING RULES.



BRAINSTORMING.

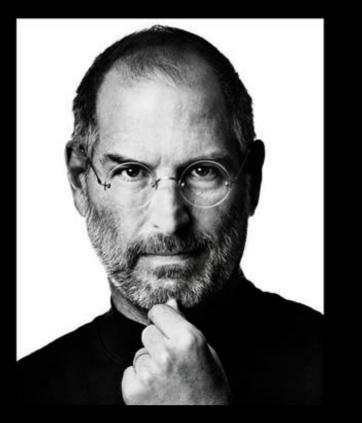


WHERE ARE WE AT THE MOMENT?

PROTOTYPE.

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"DESIGN is not just what it looks like and feels like. Design is how it works." – Steve Jobs



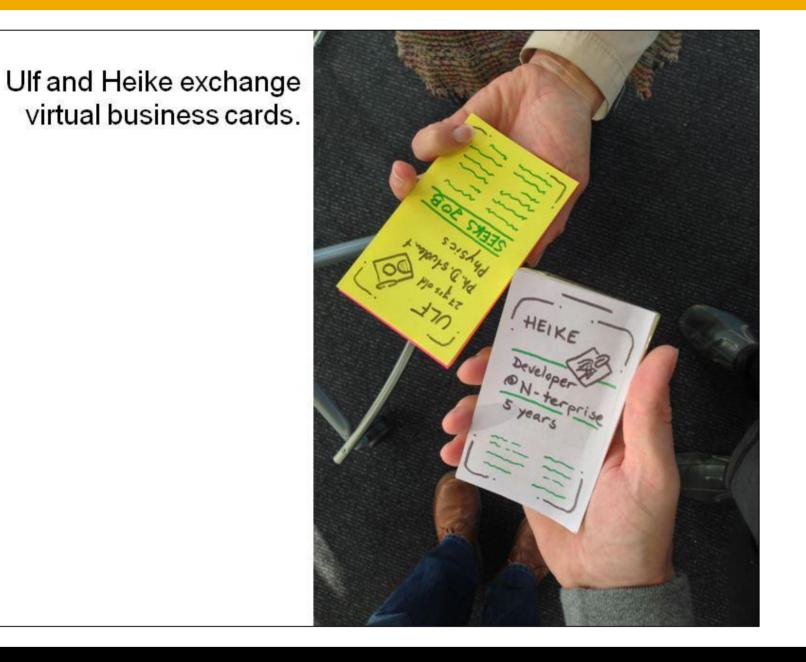


- DEVELOP AND ITERATE IDEAS.
- FIND HIDDEN ISSUES.
- CREATE COMMON UNDERSTANDING.
- DEFINE THE PROBLEM.

.. THE BEST WAY TO EXPERIENCE AN EXPERIENCE IS TO EXPERIENCE IT ..

WHY PROTOTYPING?

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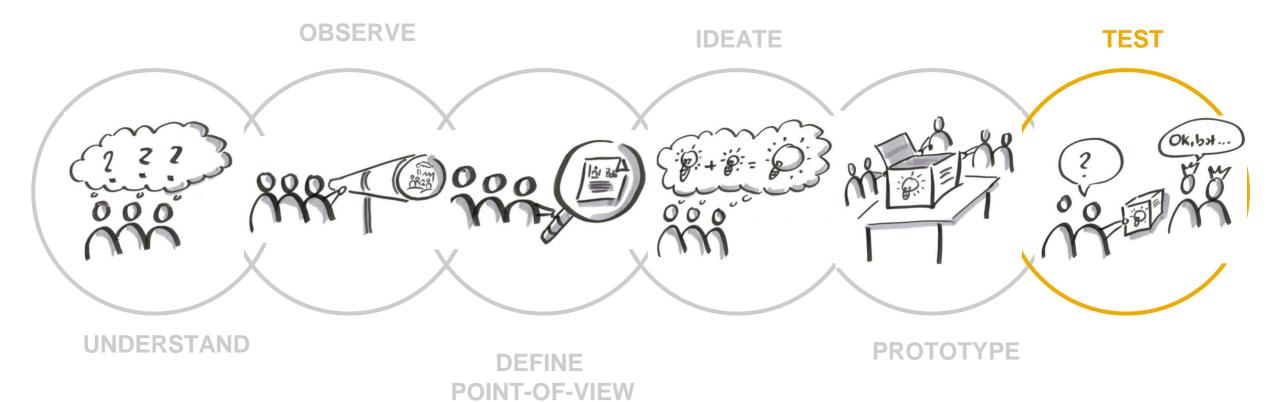
Be creative!

Prototyping is problem solving.

It's a culture and a language. You can prototype just about anything — a new product or service, or a special promotion. What counts is moving the ball forward, achieving some part of your goal. **Not wasting time**.

Kelley, Tom (2001): "Predicting and Evaluating Design Outcomes", Design Management Journal Vol. 12, No. 3, S. 36.

WHY PROTOTYPING? (according to Tom Kelley)



WHERE ARE WE AT THE MOMENT?

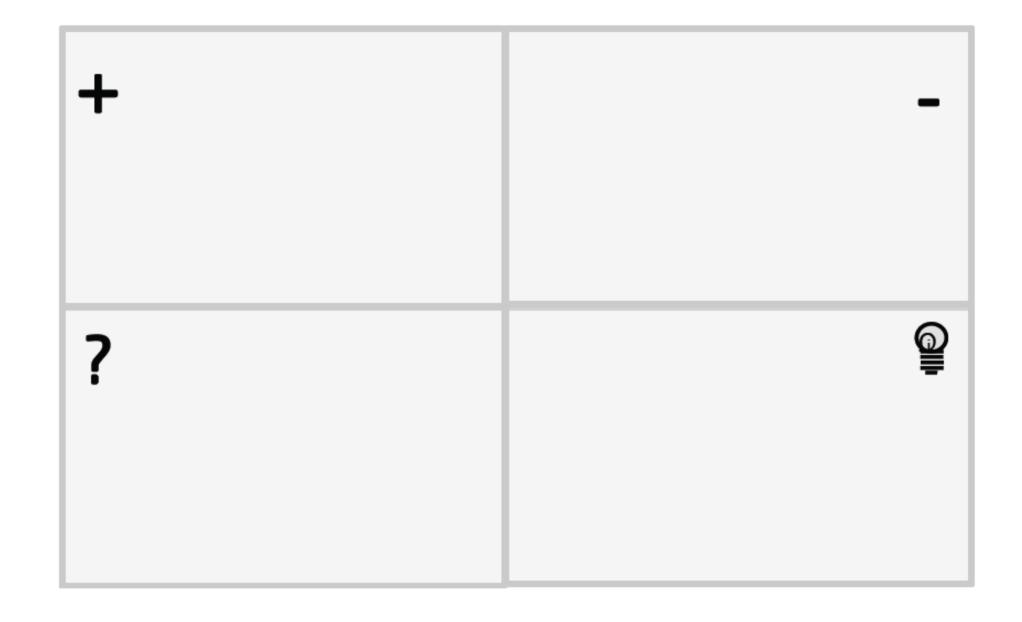


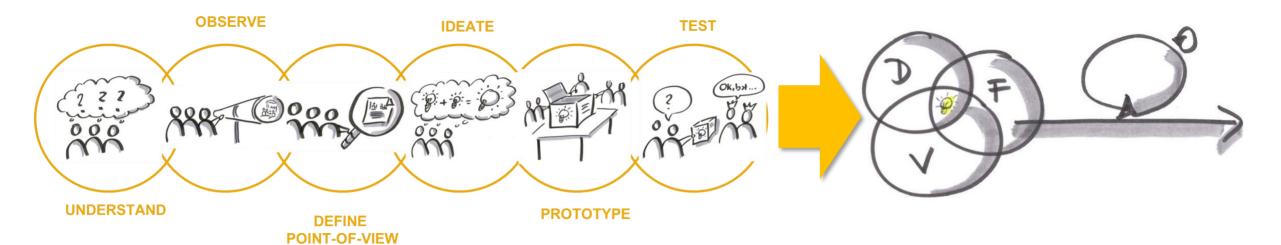


- **TO GET EARLY FEEDBACK FROM END-USERS.**
- **TO GET EARLY FEEDBACK FROM EXPERTS & STAKEHOLDERS.**
- **TO FAIL EARLY.**

WHY TESTING?

HOW TO CAPTURE FEEDBACK FROM YOU USERS?





THERE'S NO INNOVATION WITHOUT IMPLEMENTATION.

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