

Design Thinking - recap

Week 1. Introduction to Design Thinking.

Week 2. Empathy: beginners mindset, interview & observation preparation.

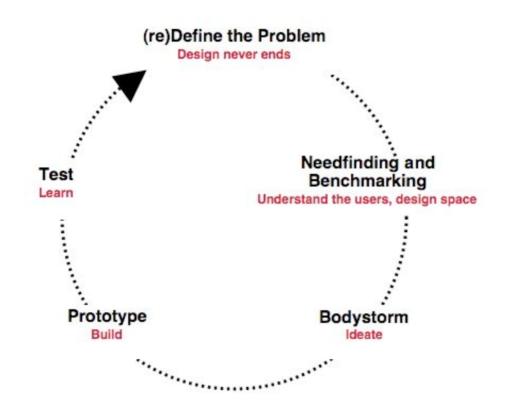
Week 3. Needfinding & benchmarking: Analyzing gathered information, personas, insights, identifying opportunities, visualization.

Week 4. Generating possible solutions.

Week 5. Prototyping & user testing.

Week 6. Storytelling, design iteration, strategic foresight.

Stanford-IDEO like design process



Where the magic happens



- Challenge your assumptions.
- There are no stupid questions. Fire away!
- [#ideas, #prototyping] Don't worry, be crappy.
- Our motto: Work hard, learn & have fun!

Jump to Conclusions

???	JUMP AGAIN	STRIKE
COULD	LOSE ONE TURN	YES!
NO!	ACCEPT	WILD 60
ONE STEP BACK	THINK AGAIN	M001!
START START		

Today we will:

- Define a user (who are you designing for)
- Choose a focus to brainstorm on
- Brainstorm possible solutions
- Prototype (plan)

First: 1. Define a user (who are you

designing for)

1. Define a user (who are you designing for):

- Make a composite persona

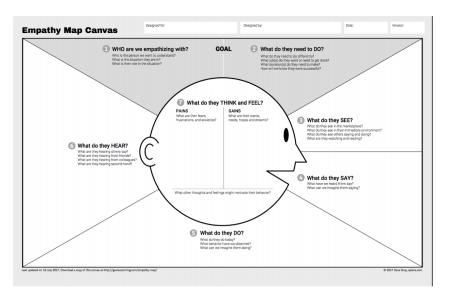


Franklin

- •38 years old
- Divorced
- •2 kids
- Diabetic
- •Free-clinic care-giver
- •Has extreme tendencies in consumption and preparation of food.
- •Balances his health and that of others, favoring the health of others.

1. Define a user (who are you designing for):

- Use empathy map to try and understand your user



Also: Focus and identify what information/data you have, and what are you still missing? (This will be extremely important for you in the next weeks to guide your efforts.)

30 minutes

2. Choose a focus

- Look at the Pains & Gains of your user and make 3-4 "How might we?" questions.

Second:

Third:

3. Brainstorming solutions:

- Put the "How might we.." questions on the top of the whiteboard/flipchart, and brainstorm possible solutions. The crazier, the better!!

Brainstorming is a **group creativity technique**

designed to generate a arge number of ideas for the solution of a problem

- Wikipedia

Rules that *must* be followed by ALL.



Idéation

Travail d'équipe : Exploration des possibilités 2. Cherchez la Quantité. Quantité



VS.



3. Suspendre la critique

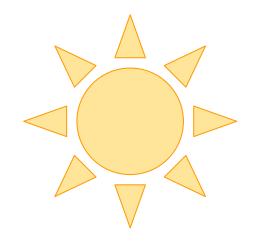






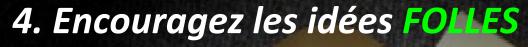






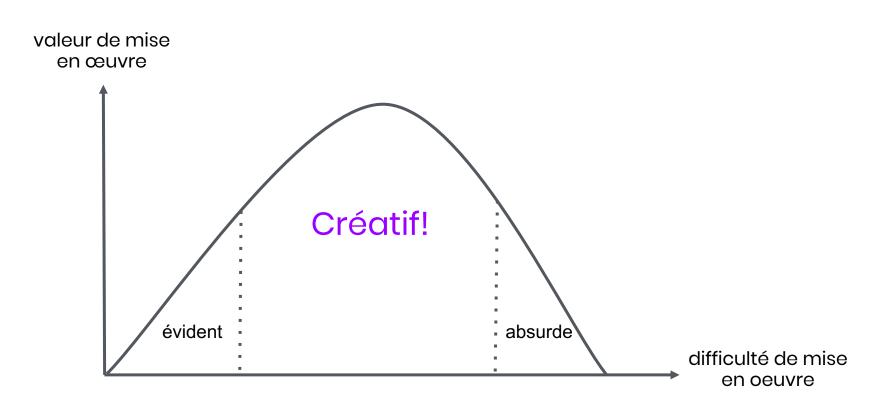
..à la place, utilisez

OUI, ET..





Go beyond obvious!







Brainstorm!

You have 30 minutes.

(Suggestion: use first 10 mins for "silent" brainstorm, second 10 mins to place them on shared canvas, last 10mins to build on eachothers ideas.)

Come up with 50+ ideas!

Fourth part:

- 4. Organise your ideas
- Group them in emerging commonalities/themes
- Choose max. 5 of them which you think would be essential to explore and prototype

Share!

Share max 5 ideas that you think would be good to explore further.



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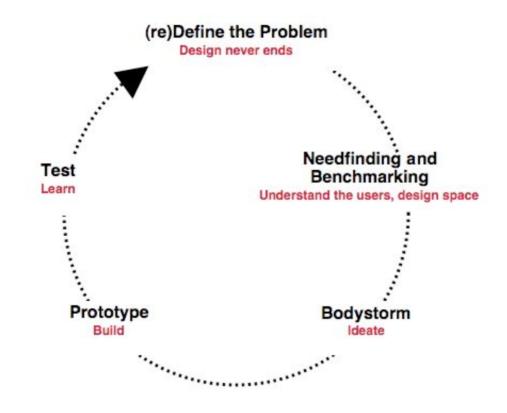
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Prototyping

- = getting ideas and explorations out of your head and into the physical world
- can be anything that takes a physical form
- a role-playing activity, a space, an object, an interface, or even a storyboard
- The resolution is now rough and rapid
- Make something people can experience and interact with.

Why prototype?

- Start a conversation
- Gain empathy
- Learn
- Explore
- Test
- Inspire
- Solve disagreements
- Fail quickly and cheaply
- Manage the solution-building process

First:

1. Choose one idea to prototype

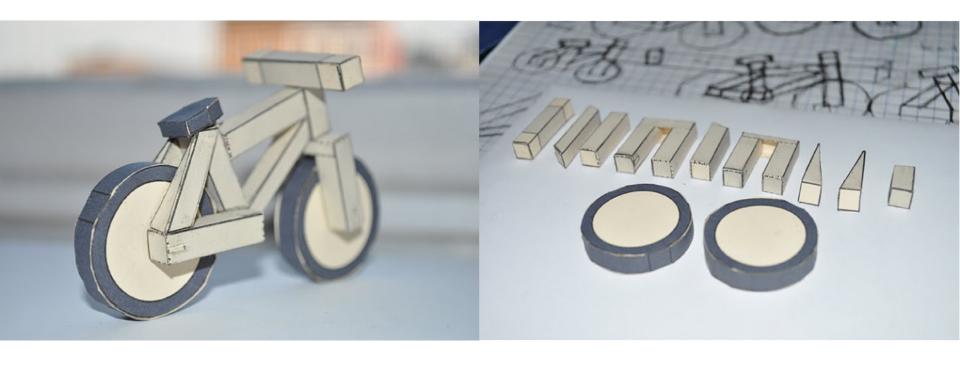
Deconstruction

"There is some negativity in deconstruction. I wouldn't deny this. You have to criticize, to ask questions, to challenge and sometimes to oppose. What I have said is that in the final instance, deconstruction is not negative although negativity is no doubt at work. Now, in order to criticize, to negate, to deny, you have to first say 'yes'."

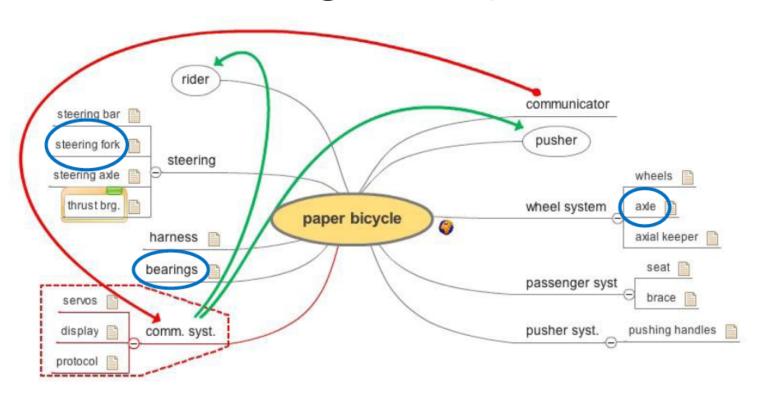
Deconstruction

is understanding.

Deconstructing: a product



Deconstructing: the system



Deconstructing: a service



Deconstructing: the system

Rail Europe Experience Map

Guiding Principles

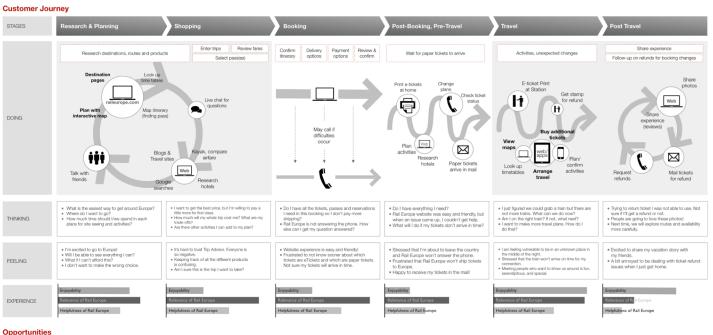
People choose rail travel because it is convenient, easy, and flexible.

Rail booking is only one part of people's larger travel process.

People build their travel plans over time.

People value service that is respectful. effective and personable.

ens



Journey Model

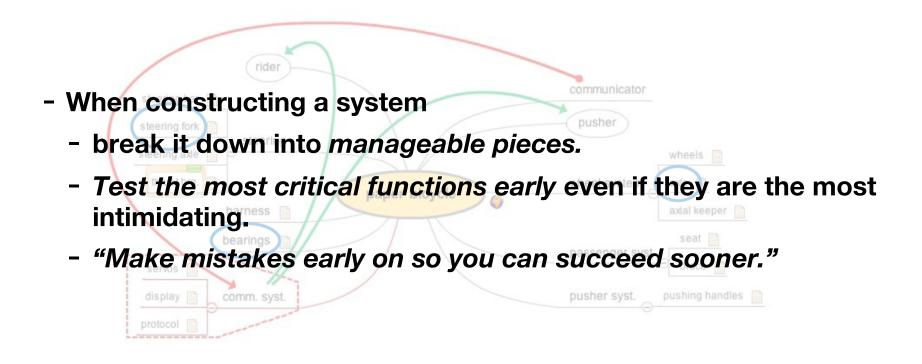
Qualitative Insights

Quantitative Informatioin

GLOBAL = PLANNING, SHOPPING, BOOKING POST-BOOK, TRAVEL, POST-TRAVEL Communicate a clear Help people get the help Support people in creating their Enable people to plan over time. Visualize the trip for planning Arm customers with information mprove the paper ticket Accommodate planning and own solutions. value proposition. they need. and booking. for making decisions. booking in Europe too. experience. Engage in social media with

Takeawavs

Constructing: the system



Constructing: the system

"When you put your ideas in the world, then, and only then, do you know if they're real."

Second:

2. Map out your understanding of components of the idea: product/service you have chosen

Critical functions



- CFP =
 - Critical
 - Function
 - Prototype

- CEP =
 - Critical
 - Experience
 - Prototype

- Critical

- Something fundamental and necessary to the success of the design.
- If this component were to fail, another approach would be needed.
- In other words: the piece you are most worried about.
- Function
- Prototype

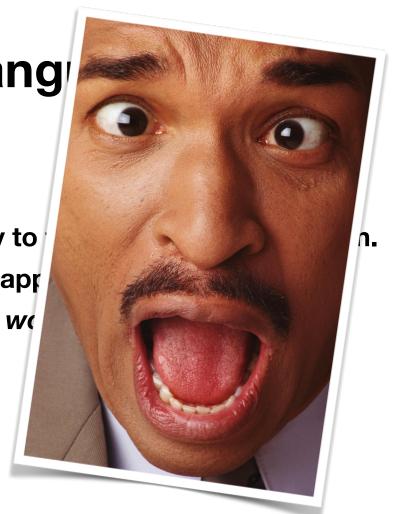
- Critical

- Something fundamental and necessary to

- If this component were to fail, another app

- In other words: the piece you are most we

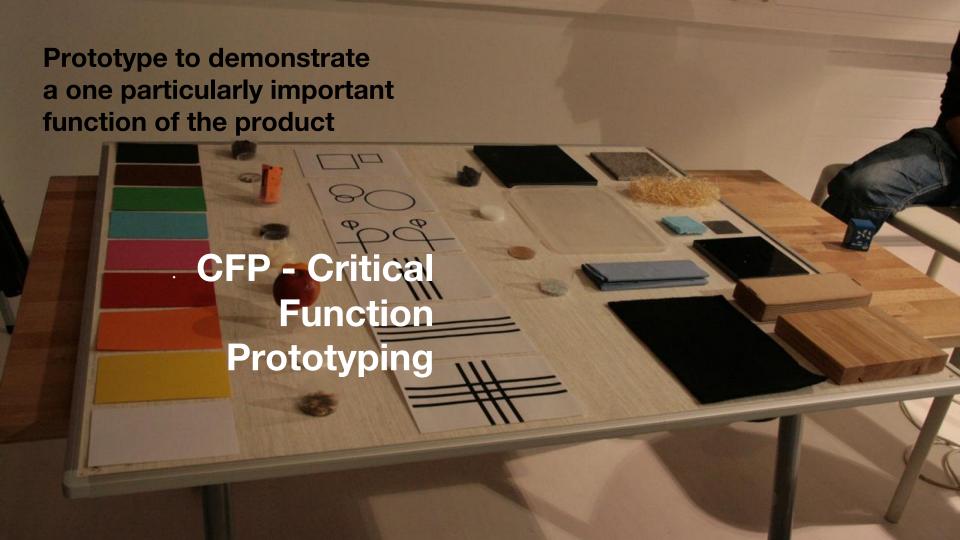
- Function
- Prototype



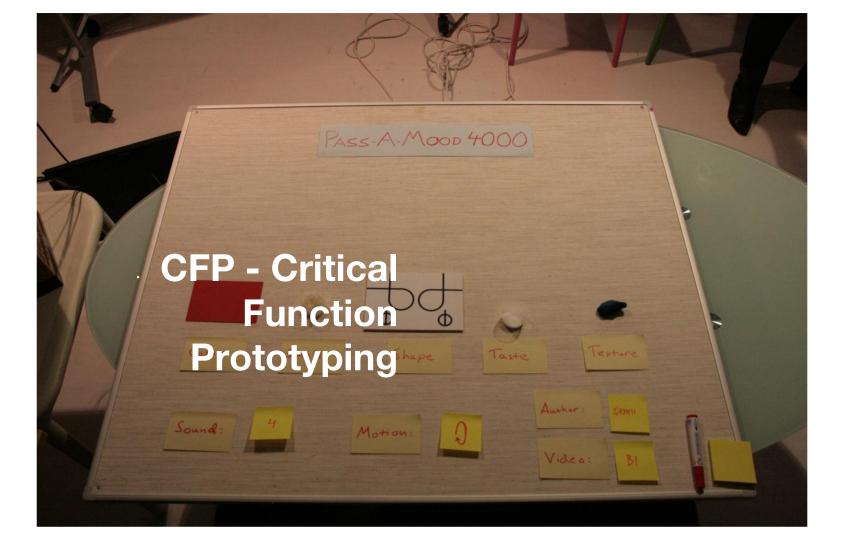
- Critical
- Function
 - What the element, piece or subsystem must do (not what it is or should be).
 - Identify the function and the parameters for success.
 - Can you make it work?
- Prototype

- Critical
- Experience
 - procedural knowledge vs. propositional knowledge
 - Identify the type of experience
 - How can you represent / recreate / simulate it?
- Prototype

- Critical
- Function
- Prototype
 - Something physical that you have made (not a calculation, sketch, research or user tests).
 - It allows you to perform real tests and obtain useful results.
 - It does not necessarily reflect the final design.







3. Define what is the critical function and/or

Third:

experience you need to test

On prototyping

- We know you want to do an outstanding job.
- At this stage, resolution does not matter.
- Function over aesthetics!
- You want information/data you can build your next ideas and decisions on.
- Think of prototype as a "scientific experiment" to learn from what does the output data look like? How will you interpret it?

You can prototype everything. You can prototype with anything.

Prototype!

You have 1 hour.

We want a prototype (or at least a plan what to build one and how) that is tested (or shared) with at least one person who is not a member of the program.

