

# Idea creation Process and Methods

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# Product / Service Vision

## a.k.a. Concept description

- A high-level description of what the product is meant to achieve, and how it provides value to customers
  - Often textual or simple sketches
  - “1-minute pitch” / elevator talk
- Helps to orient the whole product dev. team, allowing working in parallel
- Storyboards, videos and lo-fi prototyping is used to communicate the concept

# Ingredients (may contain traces of nuts)

- Purpose – “value proposition”
- Market segment / user group
- Needs & problems it addresses
- Main features
  - How does it change things; how is it used
  - Maybe what it looks like
  - Maybe ideas about what technology to use
- Value / Benefits
  - To business, to society, ...



Source: Pinterest

# Ideation – consider both the negative and the positive

- Problems Worth Solving

- Write down the problem(s) on a high enough level.
- Your readymade idea is probably not the only solution.

- Ideas that fix or reduce the customer's pain

- Negative emotions and aspects related to the customer need








- Ideas that make the best out of the positive

- Positive emotions and aspects related to the customer need



See **canvases for different phases** of the idea creation process: <https://leanservicecreation.com/canvases>

# THE PRODUCT VISION BOARD

 <b>VISION</b> What is your purpose for creating the product? Which positive change should it bring about?			
 <b>TARGET GROUP</b> <ul style="list-style-type: none"><li>• Which market segment does the product address?</li><li>• Who are the target customers and users?</li></ul>	 <b>NEEDS</b> <ul style="list-style-type: none"><li>• What problem does the product solve?</li><li>• Which benefit does it provide?</li></ul>	 <b>PRODUCT</b> <ul style="list-style-type: none"><li>• What product is it?</li><li>• What makes it stand out?</li><li>• Is developing the product feasible?</li></ul>	 <b>BUSINESS GOALS</b> <ul style="list-style-type: none"><li>• How is the product going to benefit the company?</li><li>• What are the business goals?</li></ul>



# Vision creation session I

## Start from one of the "starting points" (goals, problems)

- Think of **solutions**, refine and evaluate them (remember documentation).
- Utilize **brainstorming methods** to enhance the process.
- Think how the idea relates to the context or other ideas ("**join the dots**").
- "Grounded storytelling", informed by user research.
  - After the data analysis and consolidation, you easily remember a lot of details...

# Vision creation session II

**Make sure everybody gets to say their thoughts and feel to be part of the process**

- “Buy-in”: support for an idea or plan
- People want to contribute to meaningful things

**You may end up with several alternative visions**

- To make an informed selection might require more discussion, data and stakeholders

# Ideation (a.k.a. idea creation)

... is the process where you generate ideas and solutions through methods such as Sketching, Prototyping, Brainstorming, Brainwriting, Worst Possible Idea, and a wealth of other ideation techniques.

<https://www.interaction-design.org/literature/article/what-is-ideation-and-how-to-prepare-for-ideation-sessions>

Learn how to use different brainstorming methods (includes examples and templates):

<https://www.interaction-design.org/literature/article/learn-how-to-use-the-best-ideation-methods-brainstorming-braindumping-brainwriting-and-brainwalking>

*"I think there is a world market for maybe five computers."*

*– Thomas Watson, chairman of IBM, 1943*



# Idea creation as a process

There are four main phases/types in idea creation

1. Outlining the design space; expanding the boundaries
2. Idea creation with various methods
3. Refinement
4. Evaluation & choice

# Brainstorming

Use the techniques next slide to create ideas on the topic you are interested in

- You can either select the topic from the “inspiration” canvas i.e. the Problem-Audience-Technology list ([see Mural-Board](#))
- Or, you can work on your own “problem” or topic

Look at the next slide. Instead of “taxi”, put your own topic there and ask the questions.

- Feel free to create more questions
- Then try to answer those questions. In other words, invent ideas how to make it happened e.g. Question: “How could VR/AR make the taxi drive feel like the future?”  
Answer: \_\_\_\_\_ (your answer = idea/concept here)

**End result: Write at least 3 ideas/concepts in the Slack channel #inspiration-ideas**

# To gain new perspectives... Ask yourself questions



## "How could we..."

- "... make taxi driving feel like racing?" → **[emphasize the good]**
- "... remove waiting in traffic?" → **[remove the bad]**
- "... change the whole taxi business?" → **[question an assumption]**
- "... make taxi rides as enjoyable as visiting hair dresser?" → **[use analogy]**
- "... make the passenger more engaged?" → **[identify unexpected resources]**
- "... make taxi rides feel like the future?" → **[change the time perspective]**
- "... make underground taxis? / feel like rickshaw ride?" → **[change context]**
- "... make taxi rides feel superhuman?" → **[add superpowers]**
- "... make taxis 'come back'?" → **[think what a specific person would do]**

And so on...

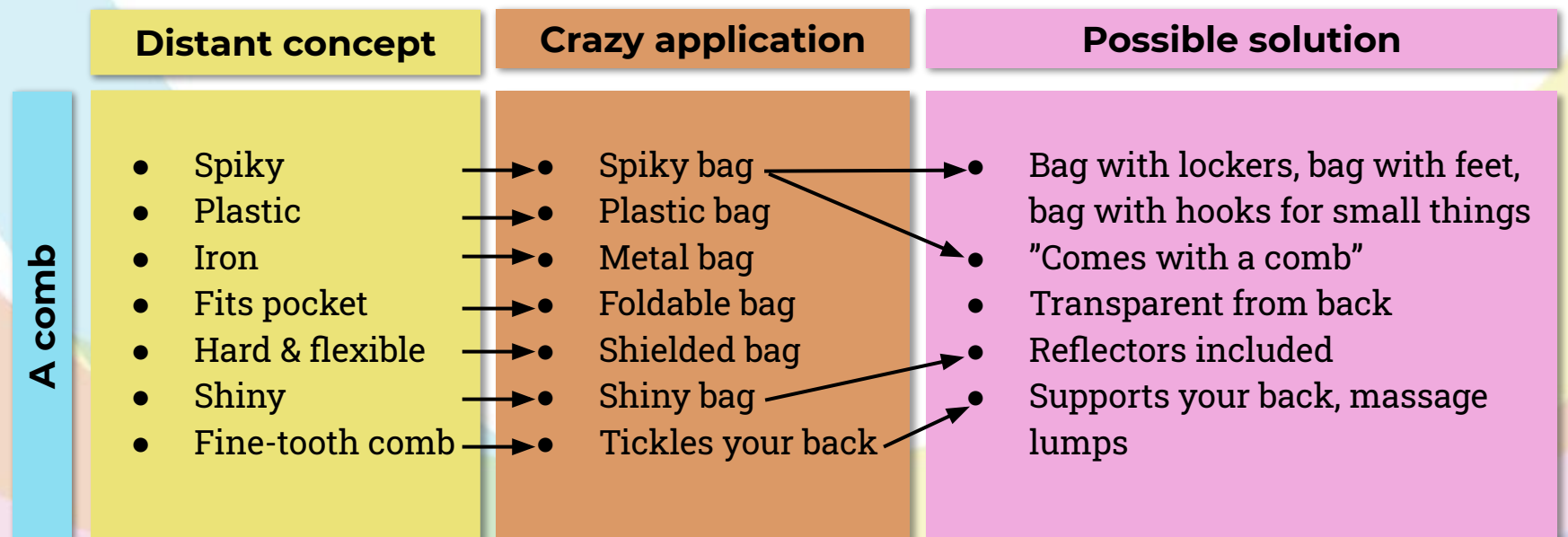
# Example of a method

## Distant concepts

Using metaphors to create unexpected ideas

Take an object that is *conceptually far away* from what you are brainstorming consider its characteristics and think how they would fit your object

Example:  
designing a  
new schoolbag  
with the help  
of a comb



<http://www.edu.helsinki.fi/malu/kirjasto/lor/main.htm>

# Use of metaphors in ideation

Also Contextual Design recommend utilizing metaphors by finding similar structures, concepts or ways of thinking from elsewhere

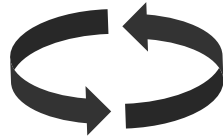
E.g. software development <-> constructing buildings

- What could we learn from this very traditional field?
- Is the role of software architect the same as construction architect?
- What artifacts are used?
- What are the responsibilities between the architect and the contractor?

OR: using map-based interfaces to visualize information

# Refinement / Evaluation choice

- To make lame ideas better
- To tame too crazy ideas
- To edit & iterate
- To consider the quality of the ideas from several viewpoints
- To decide which to put in practice



**Evaluate & refine iteratively in several rounds**

*"It is the making and implementation that differentiates creativity from daydreaming."*

*- Jussi T. Koski*

*"An idea that is developed and put into action is more important than an idea that exists only as an idea."*

*-Edward de Bono*

# Evaluation and choice

It's important to see the **breadth of alternatives** before eliminating any ideas. For example:

- Identify **3 positive** and **negative** aspects of each  
→ “What I love/hate about this is...”
- Come up with 1 idea of improvement and 1 modification

Attach the evaluation results as annotations to the idea/sketch

# The six thinking hats

## for elaborating and selecting best ideas

**White:** **Information** that is known or needed. *'The facts, and nothing but the facts.'*

**Yellow:** **Optimism**, confidence, and brightness. Probe for positives, value and benefit

**Black:** **Judgement**, wearing black hat, you're the devil's advocate. Spot difficulties and dangers; ask where things might go wrong. But avoid overusing it!

**Red:** **Feelings**, hunches, and intuition. Share fears, likes, dislikes, loves, and hates.

**Green:** **Creativity**, possibilities, alternatives, and new ideas. New concepts & sights.

**Blue:** **Process**, guidelines, initiation at the beginning, evaluation at the end, agreement of next steps.

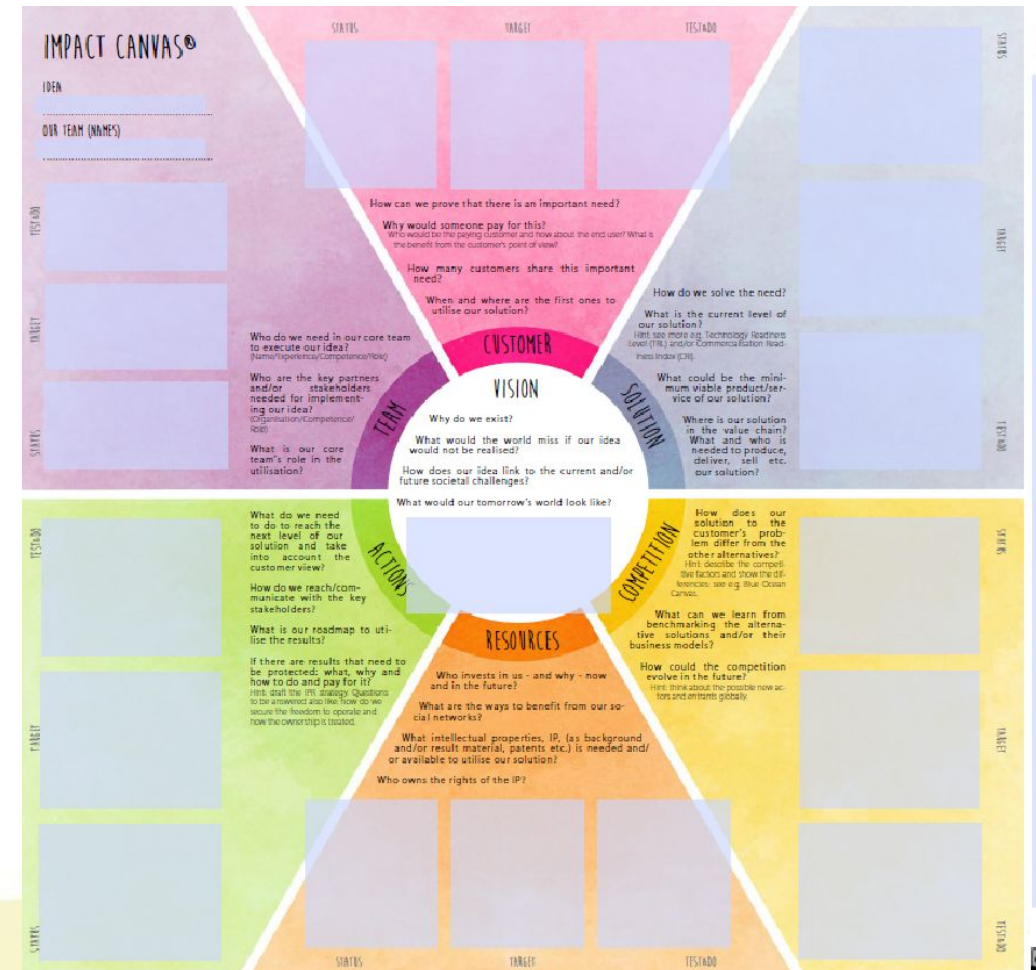


Template and instructions available at (also for many other methods!): <https://www.interaction-design.org>



# Impact Canvas

- Early idea testing and development with the focus on the **impact on the society** and/or the **customer need**
- Targeted for the pre-start-up or researcher teams who want to **describe and iterate** the big picture of their idea and its impact
- Considers Vision, Customer, Competition, Resources, Actions, Team → How to make it happen



<https://www.y-kampus.fi/en/entrepreneurship/impact-canvas/>

NOTES:



*Remember that giving up is the enemy of creativity! Creativity requires persistence.  
(Nijstad et al. 2010, Lucas & Nordgren 2015)*

*"I know quite certainly that I myself have no special talent. **Curiosity, obsession and dogged endurance**, combined with self-criticism, have brought me to my ideas."*

*– Albert Einstein*