

**Redesign of the playpen by means of co-creation**

**Job van Dongen**

**Hangloose Baby b.v.**

**June 25th, 2015**

**University of Twente, Enschede Industrial Design**

**APPENDIX**

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# SECTION A

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Stokke®

Stokke AS. (2015).

product range	premium children´s furniture and equipment, highchairs, strollers, baby carriers, home textiles and nursery furniture.
functionality	easy to use, comfortable and safe. Some products are expandable for different ages. Offering a range of products, adapted to different uses and terrains. Products are in the best interest of the child.
aesthetics	Norwegian roots carry out simplicity, functionality and calmness.
unique selling points	products have a timeless design and are developed to fit seamlessly into any interior.



Kidsmill®

DBP International B.V. (2015)

product range	offering range of complete baby and children's rooms, in a different interior styles. Product portfolio includes cradles, stools, playpens and nursery interiors.
functionality	ease of dressing up a well styled children's room. Next to complete rooms single furnitures are offered. There is no distinct focus on extra functionality or the story behind the design.
aesthetics	very outspoken and varied design, using a lot of wood, pastel colours and earth tones. Rooms have accents corresponding to different sceneries (e.g. beach accents).
unique selling points	selling trendy baby and children's rooms and furnitures by own design and styling, offering a complete range.

Table A1: Diversity of the baby and toddler product market

market analysis executed by student Job van Dongen



Bugaboo®

Bugaboo international B.V. (2015).

product range	premium seller of strollers, car seats and corresponding accesories.
functionality	products are focused on interaction between baby and parent. Strollers are suited for different terrains and purposes. Customer can configure their own stoller.
aesthetics	designs are sophisticated, trendy and have a high level of quality concerning materials and finish. Each part of a product has distinctive colours (bars and wheels are black, handle bars metallic, etc.).
unique selling points	high focus on interaction between baby and parent. Sophisticated design, each product has its own story and message. Offering a range of products, each adapted to different uses and terrains.



Dubatti®

DBP International B.V. (2015)

product range	premium seller of strollers.
functionality	products are focussed on interaction between baby and parent. Each component of the stoller is highlighted and its functionality is elaborated. Customer can configure their own stoller.
aesthetics	design is sophisticated, trendy and has a high level of detail concerning materials and finish . Each part of a product has distinctive colours (bars and wheels are black, handle bars metallic, etc.).
unique selling points	high focus on interaction between baby and parent. Sophisticated design, each product has its own story and message. Highlighting every component and so explaining the 'why' on buying the product.

Table A1: Diversity of the baby and toddler product market

market analysis executed by student Job van Dongen



Geuther®

Geuther Kindermöbel und -geräte GmbH & Co.KG. (2015).

product range	offering a range of complete nurseries, high chairs, safety fittings, care furniture, comfort products, play furniture, requisites, vinyls and fabrics.
functionality	products offer stability, material characteristics, safety and quality. Geuther is aimed at design-focused parents and design for daily use. They keep their environmental impact in mind.
aesthetics	product have an extremely well-balanced look, using the very best wood and workmanship for detailed designs.
unique selling points	focussed on the love for the child, offering a full product portfolio, safe and high quality and environmental friendly products.



Coming Kids®

Coming Kids B.V. (2015).

product range	offering a whole range of baby, toddler and children's products, including styled rooms, playpens, chairs and accessoires.
functionality	all products are manufactured while keeping the latest safety norms in mind. Rooms can be furnished completely because of its large product portfolio.
aesthetics	the company designs and manufactures their own designs and furniture, so all its products are of the same family. The aesthetics look calm, fresh and basic.
unique selling points	own style, safe products, broad product range

Table A1: Diversity of the baby and toddler product market

market analysis executed by student Job van Dongen



Childhome®

Childhome. (2010)

product range	offering almost every kind of baby- and child product there is.
functionality	because of its large product portfolio it offers products for every situation.
aesthetics	compared to other modern companies the designs are more old-fashioned, with dull colours.
unique selling points	broad product range, good price / quality rate.



Bopita®

Bopita. (2015).

product range	varying in a lot of products in the sleeping segment from baby through grown up.
functionality	the products are simple and functional.
aesthetics	designs are very minimalistic, have natural colours, make primarily use of white and wood.
unique selling points	good price / quality rate, broad product range, simple but functional products.

Table A1: Diversity of the baby and toddler product market

market analysis executed by student Job van Dongen



Baby Dan®

Babydan UK. (2015).

product range	baby safety products and stylish baby furniture.
functionality	providing comfort and safety for the baby. Furnitures are simple and functional.
aesthetics	Baby Dan has got its own collection of child friendly dessins.
unique selling points	recognizable by own dessin collections, providing safety products for the baby.



Quax®

QUAX® nv. (2015).

product range	baby furniture, stuffed animals, care and travel products
functionality	products have good quality and affordability providing a cosy and reliable home.
aesthetics	modern design with warmth and ambience, trendy colours.
unique selling points	own style, ambient

Table A1: Diversity of the baby and toddler product market

market analysis executed by student Job van Dongen



Baby's Only®

Huisman Tricot B.V. (2015).

product range	offering a broad product portfolio including baby care, traveling, playpen accessoires, bedding, stuffed animals, music boxes, decoration, paint and clothing.
functionality	providing a baby friendly and safe atmosphere.
aesthetics	having all products categorized by certian styles, creates a distinctive, trendy baby's only look. They have trendy dessins, colours and material combinations.
unique selling points	own style and dessins, distinctive colour and material combinations.



Jollein®

Smits Assen B.V. (2015).

product range	offering a range of baby textiles, including cloths, sheets and blankets.
functionality	styling the baby's room while offering comfort and safety.
aesthetics	the dessins feature the latest, trendy styles, with high quality materials.
unique selling points	own dessins and style, high quality and materials, keeping mind of TOG rates for comfortable baby temperatures.

Table A1: Diversity of the baby and toddler product market

market analysis executed by student Job van Dongen



Prenatal®

*Prénatal Moeder en Kind B.V. (2015).*

product range	offering products of large baby brands, while also offering their own product portfolio.
functionality	there is no clear own style, the products are mostly accessoires, which are diverse.
aesthetics	there is no distinctive style present, still the products are all looking baby friendly by use of colour, shape and materials.
unique selling points	having a large network by selling brands, good price / quality rate.



Oskar&Ellen®

*Oskar & Ellen AB (2015).*

product range	having a broad product portfolio of baby and toddler toys made of textile.
functionality	providing a playful and safe environment of toys, stimulating creativity and imagination.
aesthetics	all products look soft, child friendly and cozy.
unique selling points	all products are made of textile, they have a unique product portfolio, there is one style throughout all the products.

Table A1: Diversity of the baby and toddler product market

market analysis executed by student Job van Dongen



Nicolientje®

*Nicolientje B.V. (2015).*

product range	full range of textile products, including playpen mats, cloths, curtains and more.
functionality	providing baby-friendly surroundings and safety.
aesthetics	Dutch design and dessins, pastel, soft colours, checkers patterns.
unique selling points	products have a particular Dutch style, almost all products are made of high quality textile.



Fisher-Price®

*Mattel Inc. (2014).*

product range	full range of baby- and toddler products, including every kind of product that is part of to this product branche.
functionality	Fisher-Price offers specific products for specific ages, with ranges of 3 months. This way a lot of functionality is provided, for each age period.
aesthetics	typical baby products with bright colours, illustrations of playful figures/animals. Round shapes. Setting a standard for baby-like products.
unique selling points	offering a wide range of products for every baby age period. Bein a standard for baby-like products.

Table A1: Diversity of the baby and toddler product market

market analysis executed by student Job van Dongen



Maxi-Cosi®

*Dorel Industries Inc. (2015).*

product range	offering car seats, strollers toys and accessoires.
functionality	Maxi-Cosi products are safe, sound and solid.
aesthetics	no striking baby aesthetics, using a lot of black and grey, products look sound and solid.
unique selling points	sound and solid products, good price / quality rate



Bébé Confort®

*Dorel Industries Inc. (2015).*

product range	offering car seats, strollers and baby feeding & care.
functionality	car seats are made for each each age, from baby to child.
aesthetics	products look more sophisticate than conventional baby products, with detailed designs.
unique selling points	offering a range of sophisticated products, from care to strollers, to car seats.

*Table A1: Diversity of the baby and toddler product market*

*market analysis executed by student Job van Dongen*



Chicco®

*Artsana S.p.a. (2015).*

product range	offering a wide range of gear, feeding, apparel, toys and parts.
functionality	offering products for every baby and toddler, with ergonomics in mind.
aesthetics	designs are striking using Italian inspired fabrics, designs and crafted tailoring.
unique selling points	using Italian design, ergonomic products, having a wide product range.

*Table A1: Diversity of the baby and toddler product market*

*market analysis executed by student Job van Dongen*



<b>FSC Certification</b> <i>Forest Stewardship Council US. (2015).</i>	To remain a green image it is important for a company to gain the FSC certificate. Also it is important to be operating environment-friendly
<b>DIN standard 53160-1 and 53160-2</b> <i>Beuth Verlag GmbH (2015).</i>	Determination of the colourfastness of articles for common use - Parts 1 and 2
<b>European standard EN 71</b> <i>European Commission. (2015).</i>	Standards on toy safety
<b>Use of the RECY symbol</b> <i>RESY. (2015).</i>	On the recycleness of packaging material
<b>CEN/TC 207/WG 2 Scope</b> <i>European Committee for Standardization [CEN]. (2015).</i>	Standardization in the field of all furniture: terminology, safety and health, test methods and requirements for end products, parts, components, surfaces, surface finishes and furniture hardware, dimensions. Standards for raw materials are excluded.
<b>EN 12227:1999 Playpens for domestic use</b> <i>European Consumer Safety Association (2003).</i>	Consists of two parts: 1) safety requirements, 2) test methods

Table A2: Legislation on the playpen

function	how	design	how	user needs	how
limit moving space	balusters	bring sense of nature in the home of consumer	use of natural materials, shapes, colour and finish	product should be presented in a clear manner	have good and convenient renders / photos of the product when promoted
create a safe playing area	balusters all around, suspended from the ground	the shape should be space-efficient	make it fit in a corner, make it foldable	communicate why this product is unique	present its added functionality clearly
provide ways to learn to sit, roll over and stand up	ballusters, bottom plate, upper rim	parts should not be harmful	round off edges, use high finish, parts should not stick out	show how this particular product adds up to the identity of the consumer	address unique selling points more, let consumer compose via mass-customization. Show product in context
be the baby's personal space	use playpen for baby only, make comfortable	design should blend in with interior	let user compose the right playpen through mass-customization. Do not excessively differ from conventional furniture	have an emotional connection with the playpen	create a context in which this playpen is of excellent use, and show why this would also be case in the user's context
safe in use	have a high material finish, no parts sticking out, no loose parts	posses sufficient level of quality (premium)	focus on materials and finish, adding subtle details		
ergonomic	comfortable working heights, good functioning mechanisms	be sound and solid	use sturdy structures, do not make elements excessively thin.	the playpen should be original, different from the rest	have unique selling points, be original through added functionalities

Table A3: Program of requirements page 1

function	how	design	how	user needs	how
easy to use	have convenient mechanisms and uses	have a sense of craftsmanship	use high quality materials and finish. Add subtle details	the product should give the user a good feeling	this happens when the product functions well and adds up to the identity of the user. make sure the product does what is claims to be doing, make use intuitive
easy to maintain	have cleanable surfaces, no crevices or little ornaments	design should radiate neutrality, serenity, calmness, peacefulness, authenticity, security, class, minimalism, functionality	less is more, use of calm colours and natural materials, clear shapes, sleek lines, high finish, make it function very well. No thin elements	the action of purchasing should be convenient, without any hassle	selecting and ordering should be easy and go smoothly. Comparing with other products should be of no effort.
embrace interaction between baby and parent	make easy accessible for parent, keep clear visibility, tilt bottom plate towards parent	have one base colour with a matching colour twist	use of colours	the product should offer the best for a fair price	have a product that functions very well, while not demanding the highest price there is on the market
depth of playpen should vary with age and size of baby	make use of elevating bottom plate	go together with other HLB products	aesthetically they should go together, making use of same design elements, materials and colouring.	the product should have a positive social media reputation	let the product speak for itself. Good products gain attention automatically. Make use of trendsetters and vloggers/bloggers
space between ballusters according to regulations	use defined regulations				
dimensions according to regulations	use defined regulations, keep size of HLB				
bottom plate should be rough enough to prevent shifting of playpats	use defined regulations, keep size of HLB				
bottom plate should not be hard	use defined regulations, keep size of HLB	if introduced abroad, it should have a touch of that particular context	add cultural design elements to the design		

Table A3: Program of requirements page 2

function	how	function	how	user needs	how
be movable	add wheels	provide safety against pets	use of ballusters, high suspended bottom plate	the consumer should have the ability to adjust the looks and functionalities to its own needs	let the consumer compose via mass-customization
upper rim should not do baby harm when chewing on	make rim soft, use materials used on chewing rings, add chewing rings	provide safety against draught	shut off open spaces beneath the bottom plate	the use should be convenient, without any hassle	make sure the product does what it claims to be doing. make the use intuitive
the sides of the playpen should be usable for other applications when the playpen is out of use	make sides reconstructable by designing the right connections between elements	parts should not absorb any moisture	use materials which are water resistant		
go together with other HLB products	functionally they should go together, fit on top of each other, support each other	have high durability	use high quality materials and sturdy structures		
be self constructible	make all parts ready to assemble, deliver in flat pack	the baby should not hurt itself when falling	round off any sharp edges and corners, make undersoil and ballusters soft, increase width and length of playpen		
be usable in small apartments	provide options where different products can be combined with the playpen, make playpen foldable	make playpen useful when it is not used anymore	make sides deconstructable to be used in other scenarios		

Table A3: Program of requirements page 3

# SECTION B

## FIGURES



Figure B1: Baby furnitures in context



Figure B2: Different baby furnitures

When you buy furniture, how do you rank the following aspects of the product from the most to the least important?

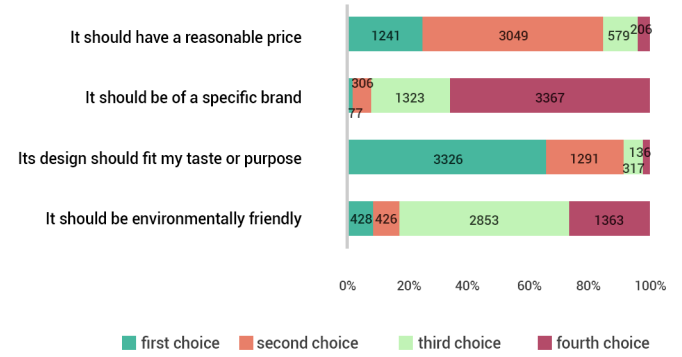


Figure B3: Questionnaire results - ranking aspects of the product (CEPS, 2014, p.144).

I am willing to pay more for a furniture if:



Figure B4: Questionnaire results - willingness to pay for the product (CEPS, 2014, p.138).

# SECTION C

## ONLINE QUESTIONNAIRE

Dear Sir or Madam,

First of all, thank you for participating this small questionnaire. Before we head off, I would like to introduce myself. My name is Job van Dongen, student Industrial Design at the University of Twente in the Netherlands. Currently I am working on my Bachelor thesis, which is about the redesign of the playpen (image of a playpen below). In order to gain knowledge of the use of the playpen outside of the Netherlands, this questionnaire is composed. Of course, your absolute anonymity is preserved.

Thank you in advance,

Job van Dongen  
j.vandongen@student.utwente.nl

### Playpen

The playpen is a furniture which is used to create a safe area for the baby. It provides playing space without the risk of wandering off (for example when the parent is answering the door or is cooking in the kitchen). Also, the baby can sleep in the playpen and learn how to stand up using the bars to the sides. *Image: Baby Dan®*



Are you familiar with the playpen?

- Yes  
 No

Are you familiar with nursing babies?

- Yes  
 No

0%  100%

>>

Did or do you ever made use of the playpen (as a parent)?

- Yes
- No



>>

Survey Powered By Qualtrics

How often are you making or have you made use of the playpen?

- Never
- Less than Once a Month
- Once a Month
- 2-3 Times a Month
- Once a Week
- 2-3 Times a Week
- Daily



>>

Survey Powered By Qualtrics

Do you think the playpen (copy of the description below) is or would be a good addition to the segment of baby products?

Copy of the description: The playpen is a furniture which is used to create a safe area for the baby. It provides playing space without the risk of wandering off (for example when the parent is answering the door or is cooking in the kitchen). Also, the baby can sleep in the playpen and learn how to stand up using the bars to the sides.

- Yes
- No
- Maybe



>>

Survey Powered By Qualtrics

Why is or would the playpen be a good addition to the segment of baby products?

For example: I missed a product which provided the functionalities which are offered by the playpen.

Short overview of the playpen's main functionalities: to create a safe (playing) area, to create a limited moving space, to provide a place to take a nap, to provide a way to learn to stand up.

Are there other products that you use which provide the same functions as the playpen?

Short overview of the playpen's main functionalities: to create a safe (playing) area, to create a limited moving space, to provide a place to take a nap, to provide a way to learn to stand up.

- Yes
- No



>>

Survey Powered By Qualtrics

Please indicate the extent to which you agree with the following statements.

I am satisfied with (1 = not satisfied at all; 7 = satisfied):

	1	2	3	4	5	6	7
The design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The usability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The quality of materials used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The durability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Its sturdiness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The price	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Do you think the playpen (copy of the description below) is or would be a good addition to the segment of baby products?

Copy of the description: The playpen is a furniture which is used to create a safe area for the baby. It provides playing space without the risk of wandering off (for example when the parent is answering the door or is cooking in the kitchen). Also, the baby can sleep in the playpen and learn how to stand up using the bars to the sides.

- Yes
- No
- Maybe



>>

Survey Powered By Qualtrics

Which products do you use which cover the same functions as the playpen?

Short overview of the playpen's main functionalities: to create a safe (playing) area, to create a limited moving space, to provide a place to take a nap, to provide a way to learn to stand up.

Do you think the following added functionalities would make the playpen a better product?

Rank using the 7-point Likert scale (1 = not at all, 7 = yes, definitely)

	1	2	3	4	5	6	7
The bars of the playpen are replaced with see-through walls to avoid that the playpen will look like of a prison	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The playpen is made foldable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The playpen has a rocking function (like a rocking chair)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The height of the bottom plate's is adjustable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The length and width of the playpen are adjustable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The playpen has an integrated baby changing table	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The playpen has toys which fit nicely with the playpen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The playpen provides a separate sleeping option	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The playpen has a HD camera which can track the baby's movement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Which functionalities you can think of yourself would make the playpen a better product? If you do not know any more options, leave the box empty.

**Market**

To gain a little market insight, the following questions are composed.

Which five baby brands are the first to pop up into your head?

When you shop(ped) for your baby, how is/was your purchasing behavior to be described? (multiple answers possible)

- Research online, buy online
- Research online, buy in physical store(s)
- Research online, buy in 2nd hand store(s)
- Research physical store(s), buy in physical store(s)
- Research physical store(s), buy online
- Research in 2nd hand store(s), buy in 2nd hand store(s)
- Other, namely:

Are there baby products which pass on from family member to family member?

- Yes, namely:
- No

How much would you, in theory, want to spend on a playpen?

- €0 - 50
- €50 - 100
- €100 - 150
- €150 - 200
- €200 - 250
- €250 - more

**General information**

Please answer the last general questions

What is your age?

What is your gender?

- Male
- Female

Which country are you from?

Which country are you from?

This is the end of the questionnaire.

Again, thank you very much! Your help is much appreciated.

Kind regards,

Job van Dongen



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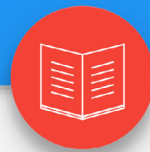
# SECTION D

## PREPARATORY BOOKLET



# Bachelor Assignment Industrial Design

Redesign of the playpen - preparatory booklet



**UNIVERSITY  
OF TWENTE.**

Enschede, april - juli 2015  
Job van Dongen - 06 42 45 9000  
j.vandongen@student.utwente.nl

*Hangloose* .....  
baby

Participants: Andreas,  
Esther and Seth Voor de  
Poorte

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## Instructions

Dear participants,

First of all, thank you kindly for taking part in my research!

This booklet is meant to prepare you on the subject of the playpen (Dutch: baby box), to make you extra aware of the way you are using the playpen and how the interaction between you and your baby is. You will only be using the booklet for a week, since the research is time-limited.

The booklet consists of a few components. First, there is a mini passport, noting the most important data about the baby and the parents. Second, there is a short diary wherein you can shortly note your daily activities with the baby. This generates a overall image of how the experience of nursing the baby is.

In the center is a circle graph. Pins need to be drawn each time the baby is placed in the playpen (for example, when the baby is placed in the playpen at 15:00, draw a pin at 15:00). This way it is made visible at which hours the playpen is used most. If you do not own a playpen, apply this graph to the product(s) you are using (note down which product(s)) in stead of the playpen. One of the main aspects of the booklet are the concern pages, where you may note down when a concern arises, whether it is positive or negative. A positive concern could be, for example, that the baby is sleeping peacefully. A negative concern could be that the baby could swallow an object, creating the chance on choking. It is important to know which concerns are present, so possible threats can, later in the design process, be tackled. The knowledge of what makes parents happy can so also be included in the design process.

At the end of the booklet is room for notes wich may pop up. Do not hesitate to ask me any question, might they arise. Contact information is enclosed on the front of this booklet. You may start the day you received this booklet and add new information (in Dutch) everyday, for a week.

Thank you in advance and have fun tracking your baby's activities and interactions!

Job van Dongen.

## Passport

Baby

Name:

Gender:

Age:

Any siblings:

Dad

Name:

Age:

Mom

Name:

Age:

Diary

Monday Date: \_\_\_\_\_

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Tuesday Date: \_\_\_\_\_

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Diary

Wednesday Date: \_\_\_\_\_

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Thursday Date: \_\_\_\_\_

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Diary

Friday

Date: \_\_\_\_\_

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Saturday

Date: \_\_\_\_\_

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Diary

Sunday

Date: \_\_\_\_\_

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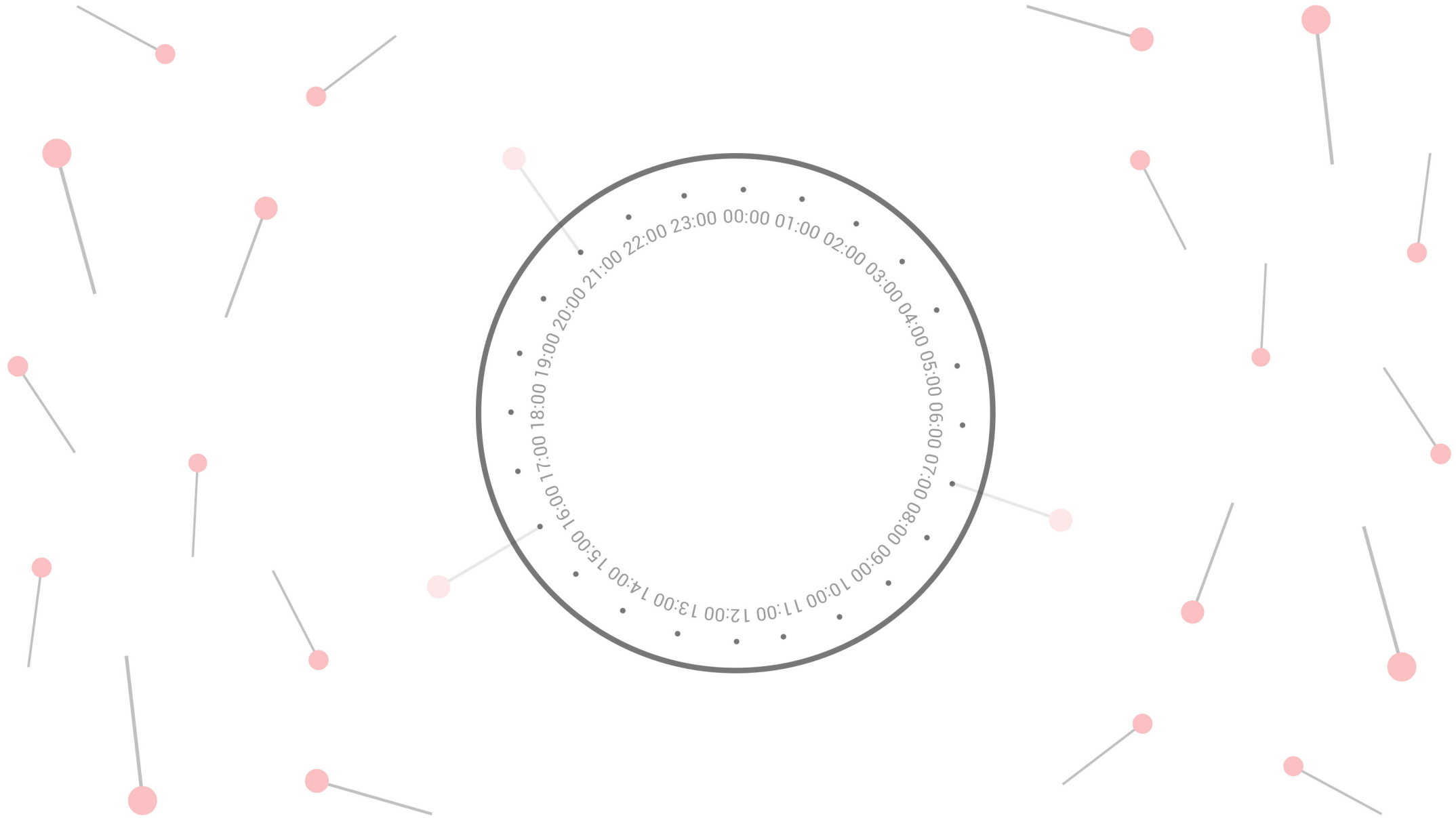
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# Playpen graph



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## Positive concerns

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## Negative concerns

A large white rectangular area with horizontal lines, intended for writing negative concerns.



## Notes

A large white rectangular area with horizontal lines, intended for writing notes.

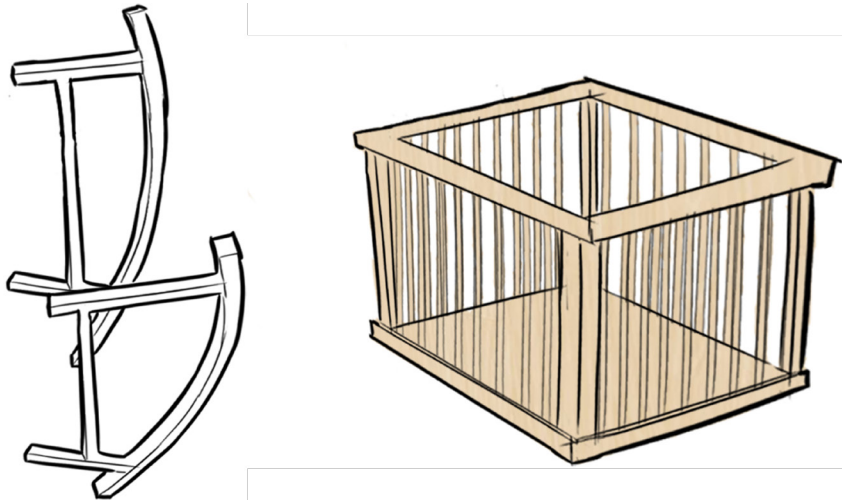
# SECTION E

## TOOLKITS

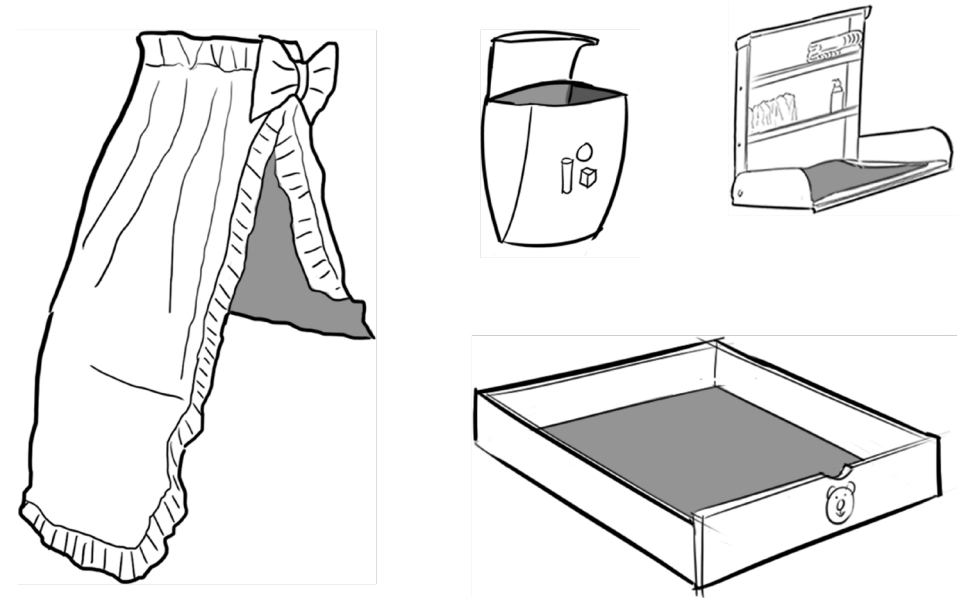


Hangloose Baby hammock-playmat

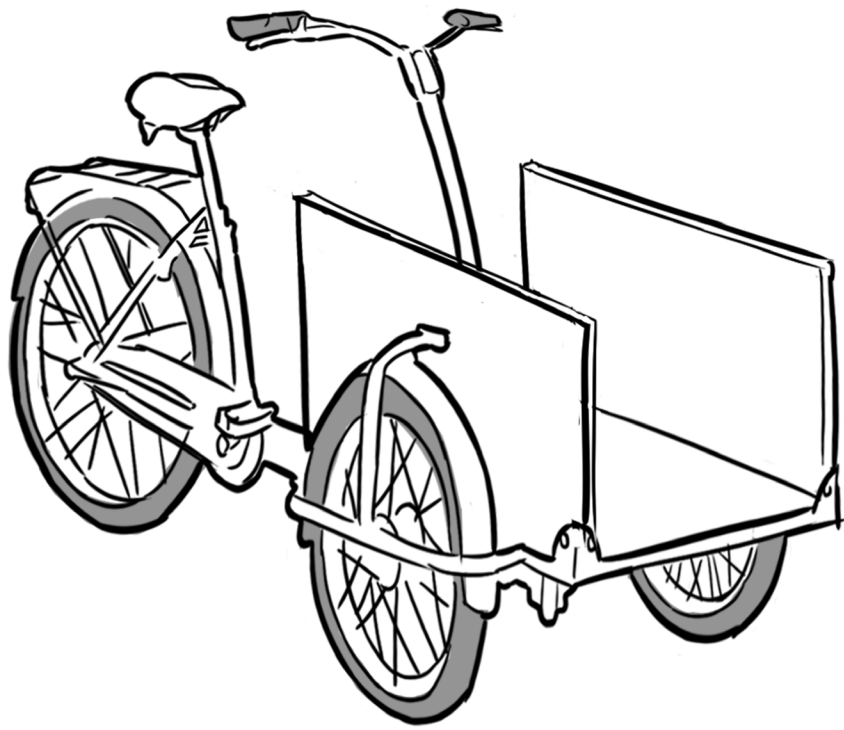




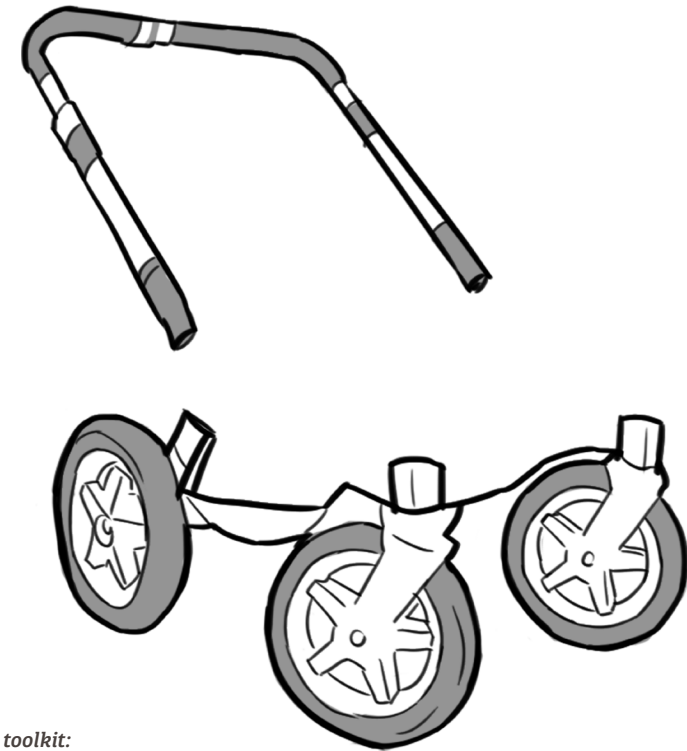
Co-creation toolkit:  
Combining different functionalities (1&2)



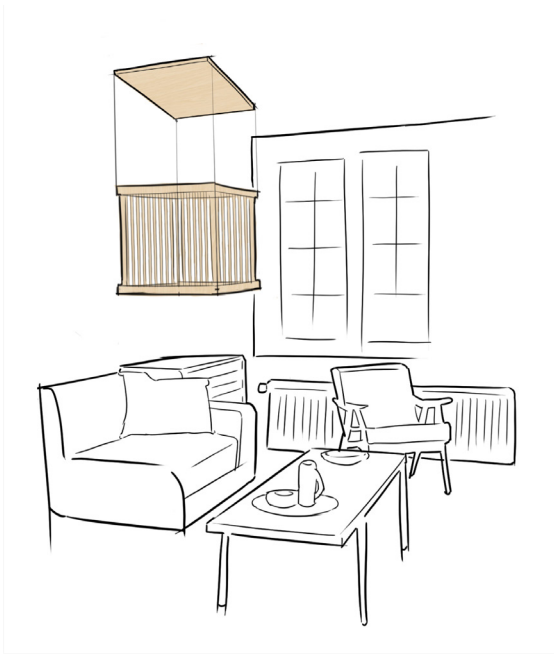
Co-creation toolkit:  
Combining different functionalities (3,4,5,6)



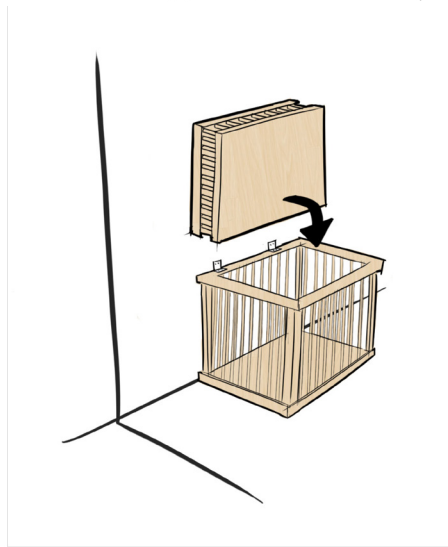
Co-creation toolkit:  
Combining different functionalities (3)



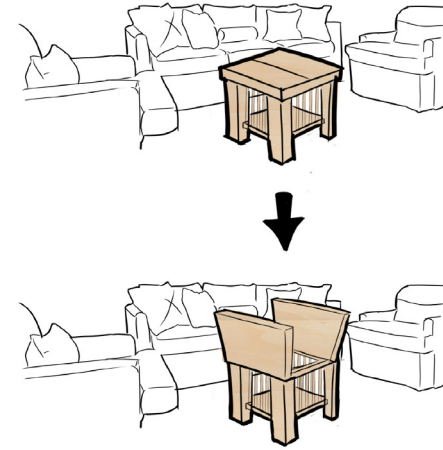
Co-creation toolkit:  
Combining different functionalities (7)



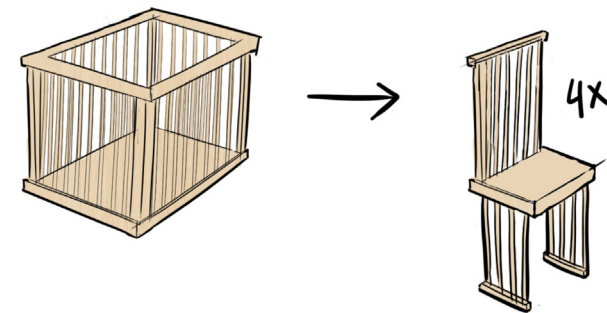
**saving space (1)**



**saving space (2)**



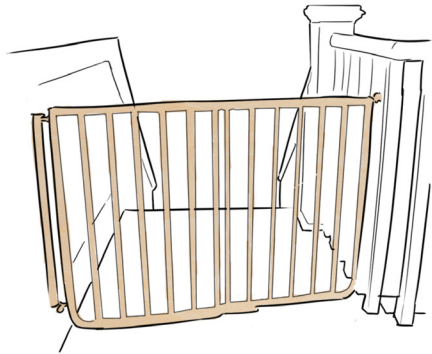
**coffee table**



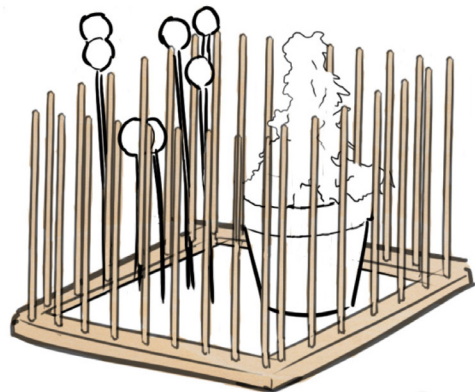
**four chairs**

*Co-creation toolkit:  
Out of the box playpen ideas (1&2)*

*Co-creation toolkit:  
Out of the box playpen ideas (3&4)*



**staircase fence**



**garden fence**

*Co-creation toolkit:  
Out of the box playpen ideas (5&6)*



*Co-creation photos  
Baby rooms (1)*



*Co-creation photos  
Baby rooms (2)*



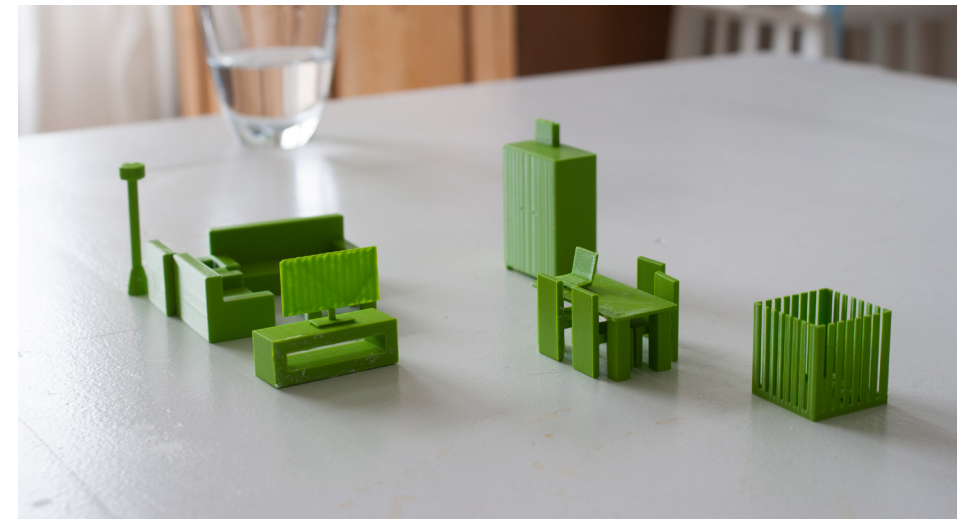
Co-creation photos  
Baby rooms (3)



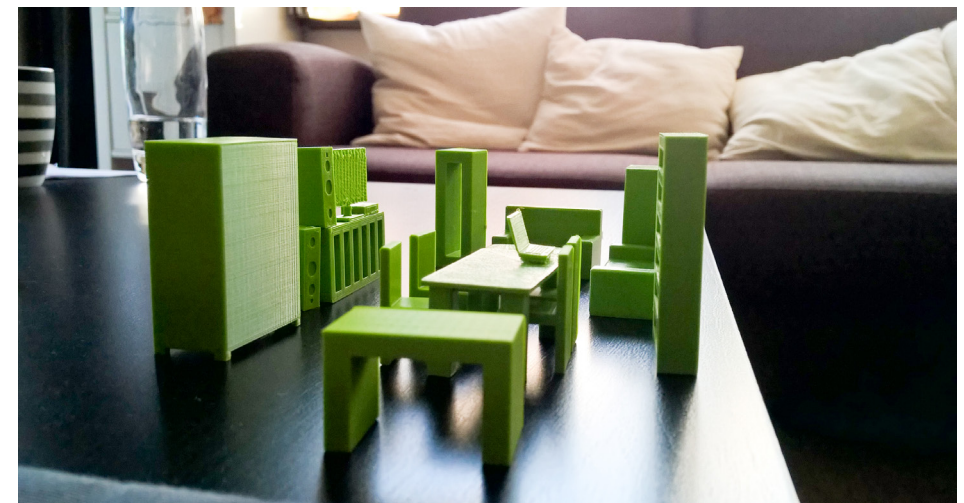
Co-creation photos  
Baby rooms (4)



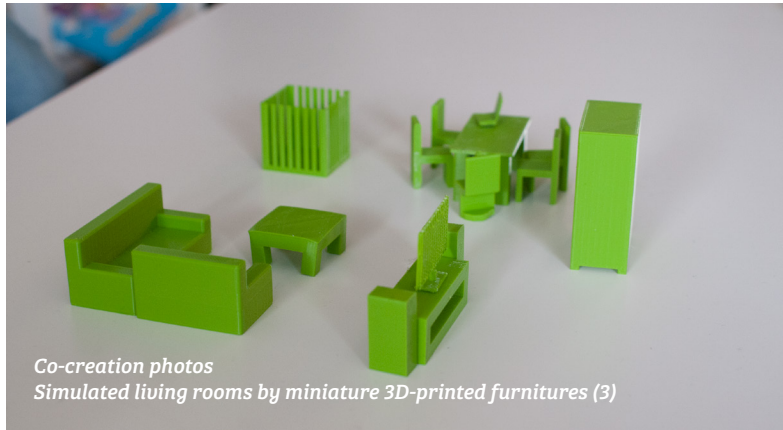
Co-creation photos  
Baby rooms (5)



Co-creation photos  
Simulated living rooms by miniature 3D-printed furnitures (1)



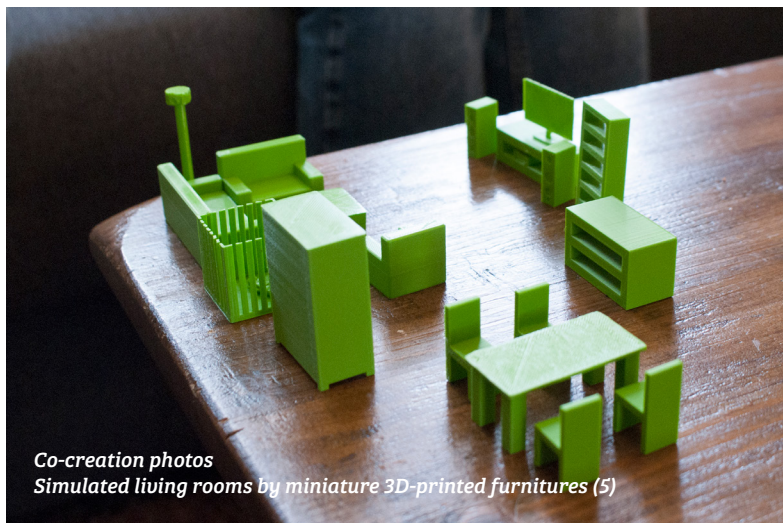
Co-creation photos  
Simulated living rooms by miniature 3D-printed furnitures (2)



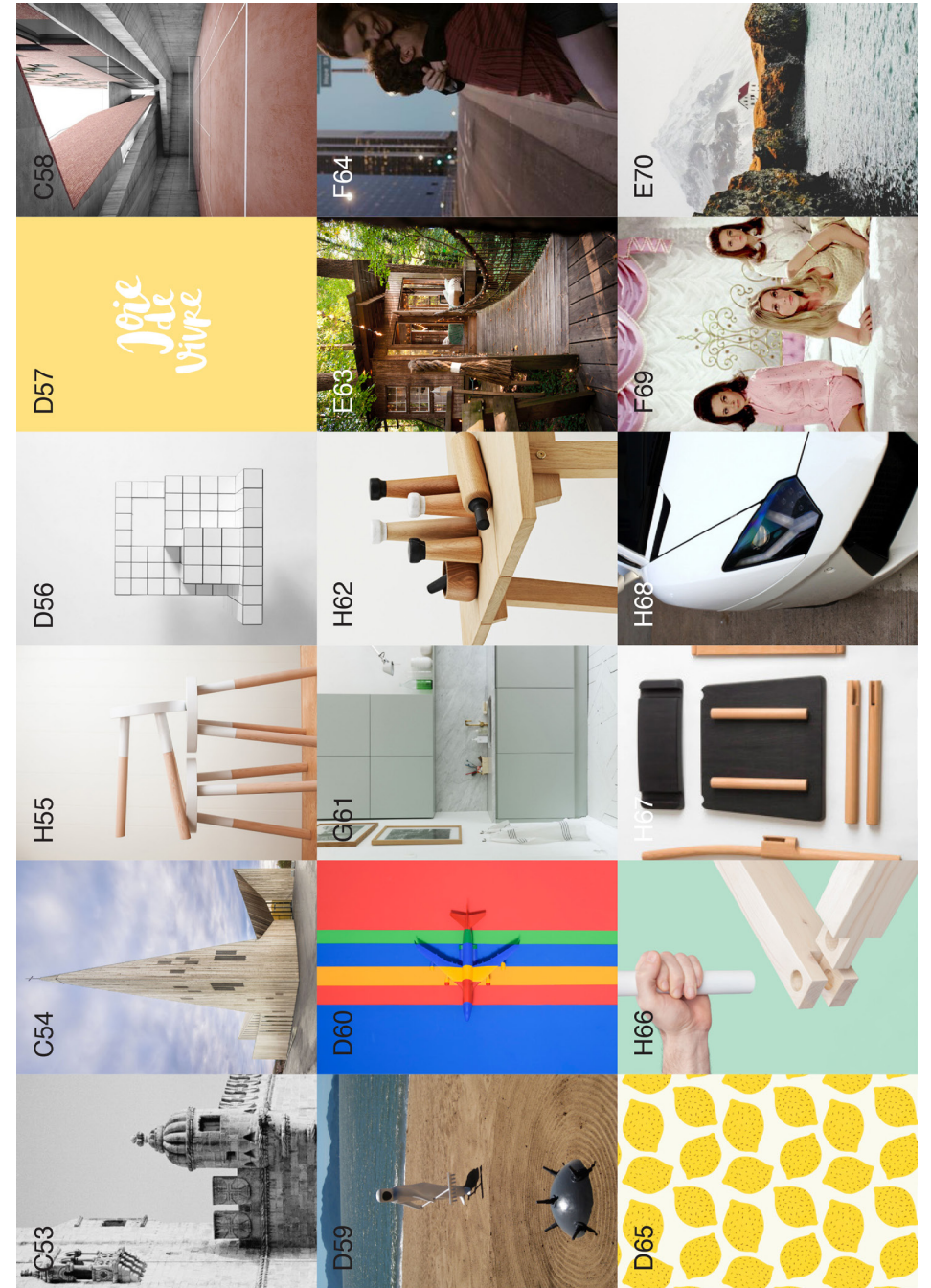
Co-creation photos  
Simulated living rooms by miniature 3D-printed furnitures (3)



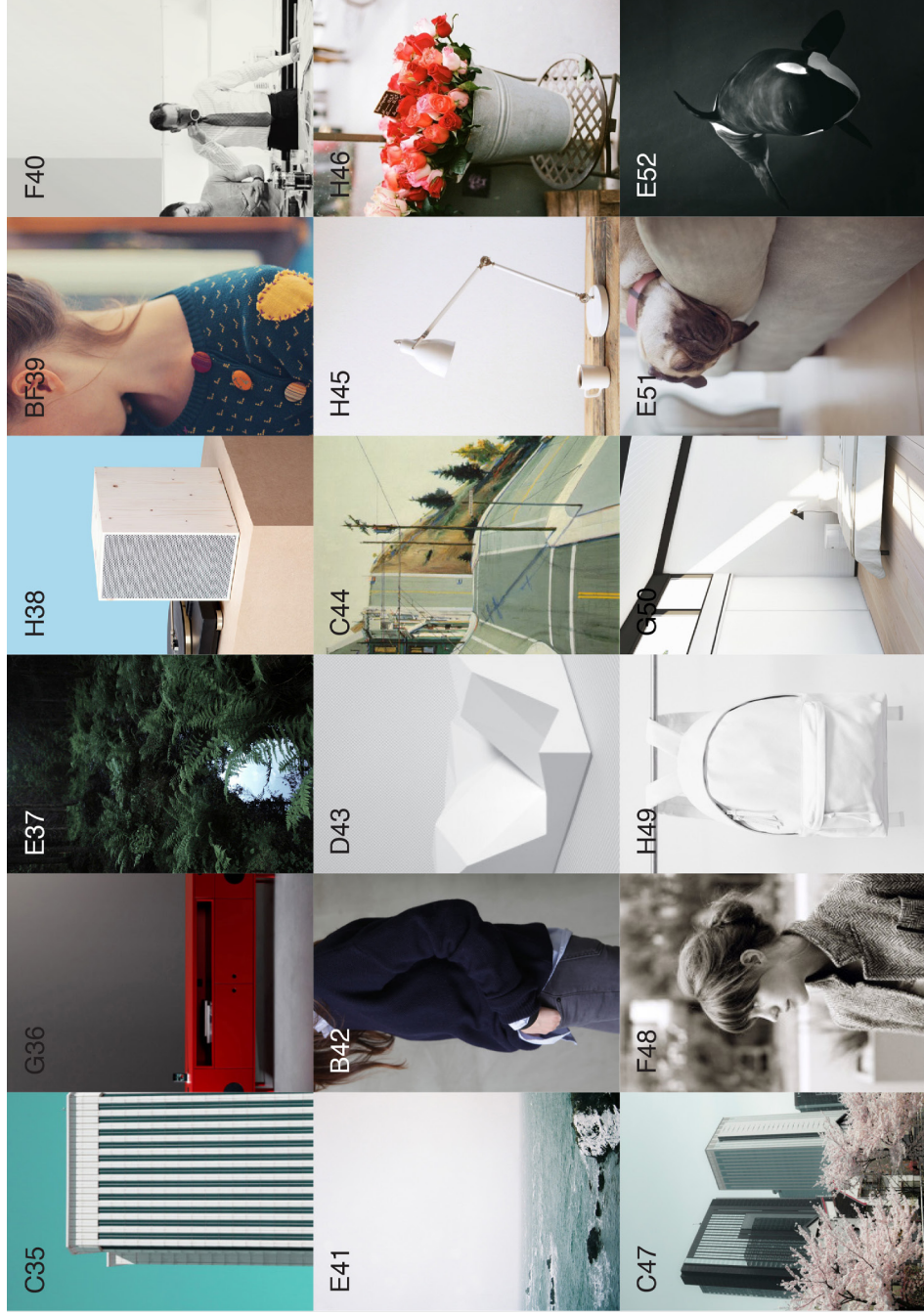
Co-creation photos  
Simulated living rooms by miniature 3D-printed furnitures (4)



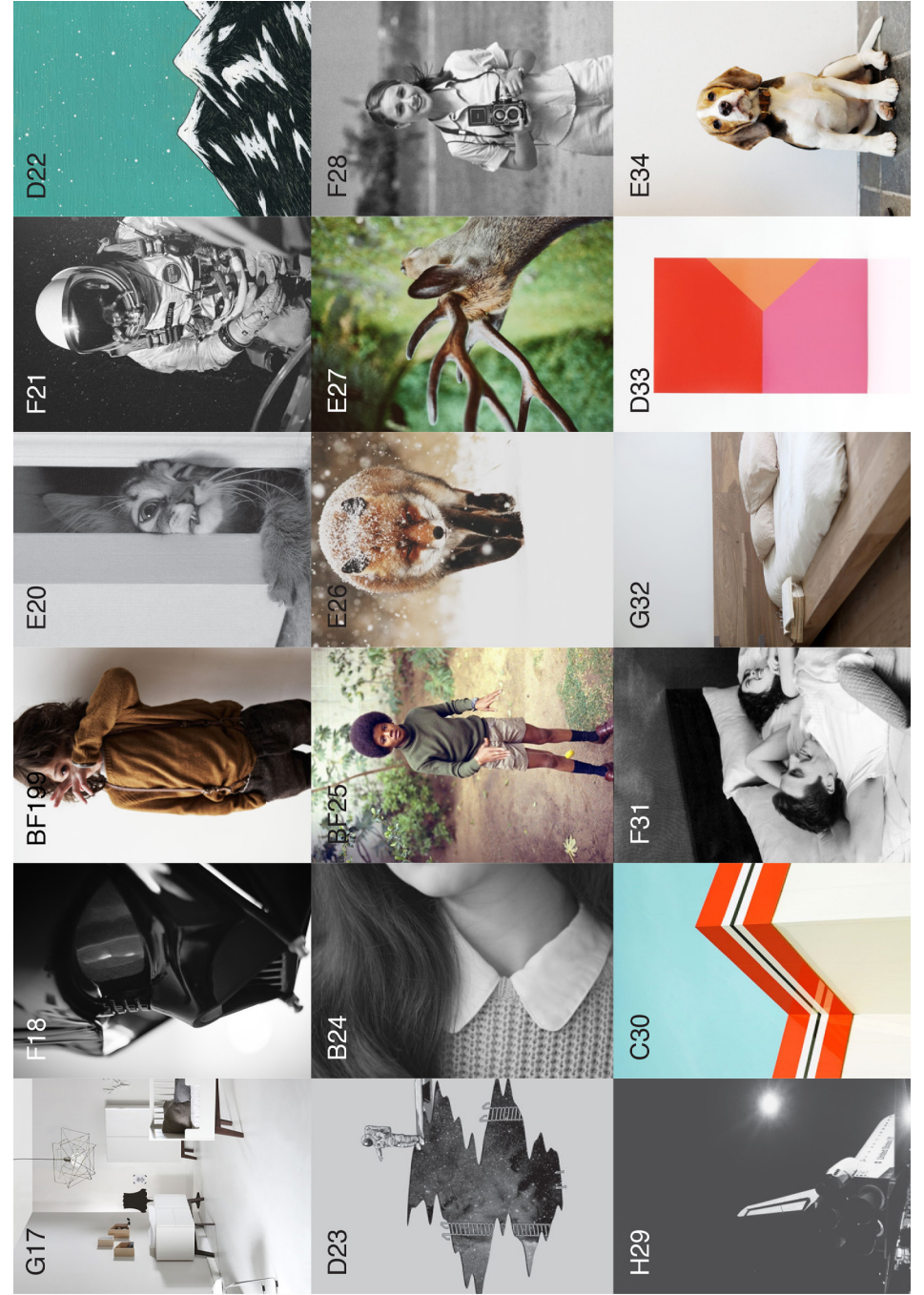
Co-creation photos  
Simulated living rooms by miniature 3D-printed furnitures (5)



Co-creation stylesheet images page 1



Co-creation stylesheet images page 2



Co-creation stylesheet images page 3



# SECTION F

## CO-CREATION RESULTS

support plate

frame

bars



- klassiek, luxe gevoel. Straalt sfeer en klasse uit.
- warme kleur.
- 1 kleur lijkt me het mooist. Eigenlijk is een net iets lichtere tint nog mooier voor een witte muur.

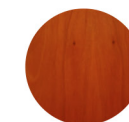
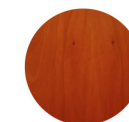


- alles dezelfde kleur geeft meer rust.
- meest natuurlijke kleur voor mijn gevoel



- neutraal, past overal. valt niet op, onderdeel van de ruimte

- neutraal



- rood/bruin een warme uitstraling



**support plate**



**geen motivatie**



bodemplaat een andere kleur dan het frame waardoor het 'breekt'.

**frame**



**bars**



**bars**



- mooie doorlopende vorm/ronding.
- handje van de baby moet het wel goed kunnen vasthouden.
- stevig voor klimmende kinderen
- mooi doorlopend, geen losse stukken



mooi  
ronde vormen



- ronde spijlen voor veilig beethouden mooi
- rond houdt lekker vast wanneer kind gaat staan.
- ronde spijlen zijn denk ik handiger voor de baby om zich aan op te trekken.



robuust  
strak

**corners**



- goede hoek tegen vallen = veilig
- mooie organische vorm
- meubel uit 1 stuk

-minder scherpe hoeken waaraan de baby zich kan stoten.

-ronde hoek is anders, mooi! Vierkant maar rond.



-ronde hoek / veiliger dan scherpe vierkante hoek.

-ronde vormen, zacht + speels



- strak.



- kwestie van smaak.



- stevigheid, rond met vierkant wel mooi en zacht. Scherpe hoeken iets afronden voor stoten en vallen



1: strak + open aan beide kanten.  
2: strak



legs



- een echte meubelpoot. oogt niet functioneel. dat is goed, want de box moet een toegevoegd design object worden voor de woonkamer.

- landelijke uitstraling

- strakke afwerking



-stevige poten zodat hij stevig op de grond staat en gewicht goed kan dragen.

-no nonsense



1

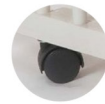


2

1: praktisch, niet mooi.  
2: anders dan anders, leuk. Moet in je interieur passen.



- de poten moeten niet uitsteken, maar bieden wel de mogelijkheid het "saaië" box-beeld op de fraaien.



- mobiel, flexibel

- wieltjes zodat de box verplaatst kan worden.

- makkelijk te betrekken bij wat je doet --> koken / bank



Co-creation stylesheet boards (1)

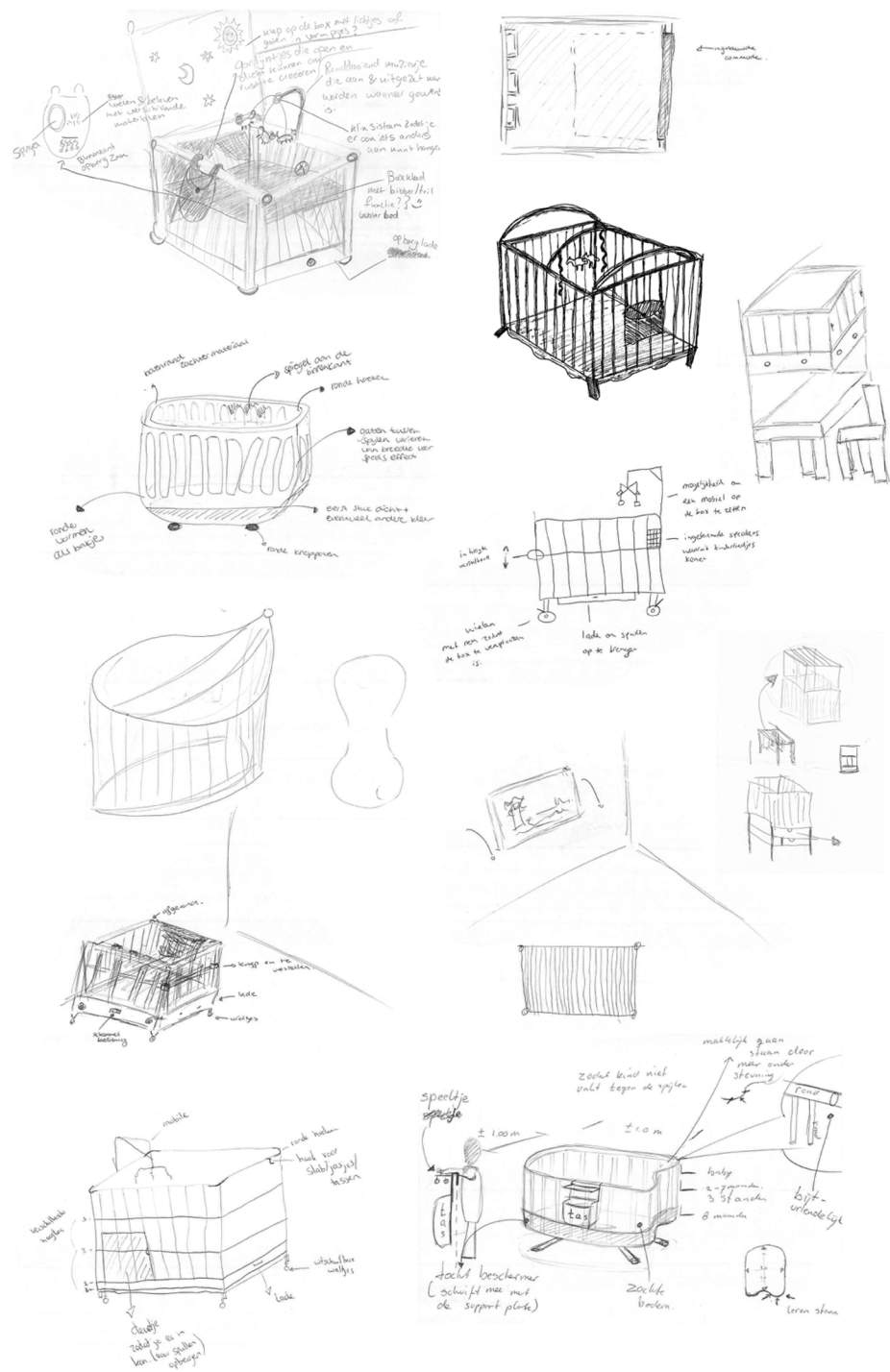


Co-creation stylesheet boards (2)



Co-creation stylesheet boards (3)





Co-creation user drawings collection