



Gorillas, beer bottles, Lego and a museum guide that makes stuff up.

Pete Bennett

www.peteinfo.com

background

tangible / play :

#1 gorilla game lab

#2 interactive beer bottles

ambiguity:

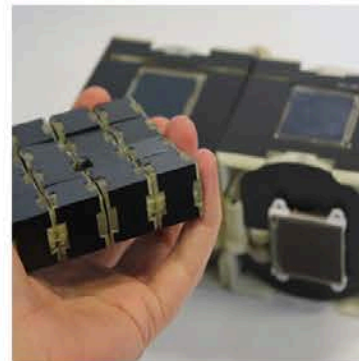
#3 instructiblocks

#4 post-truth guide

2017



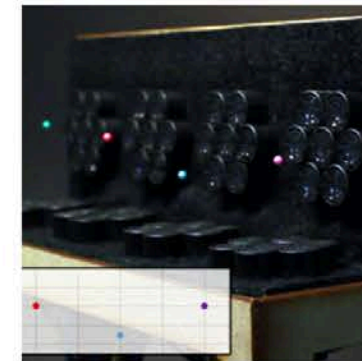
CrITicaL
2016



Cubimorph
2016



EMPress
2016



Floating charts
2016



Free Form Displays
2016



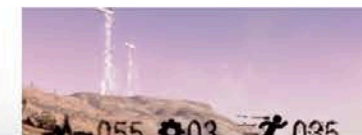
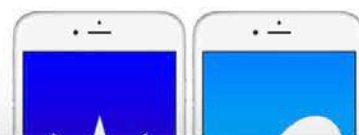
GauntLev
2016



Pet Sounds
2016



PhysiCAD
2016





GauntLev: A Wearable for Manipulating Levitated Objects

background

SensaBubble: A Chrono-Sensory Mid-Air Display of Sight and Smell

background



Pervasive
Media Studio



CITIES

PROJECTS & IDEAS

VISION

CREATIVE PRODUCERS

NEWS

AWARD

LOG IN



SHADOWING

Playable City Award 2014 Winner

SHADOWING GIVES MEMORY TO CITY LIGHTS, ENABLING THEM TO
RECORD AND PLAY BACK THE SHADOWS OF THOSE WHO PASSED
UNDERNEATH

Pervasive Media Studio - www.watershed.co.uk/studio

background

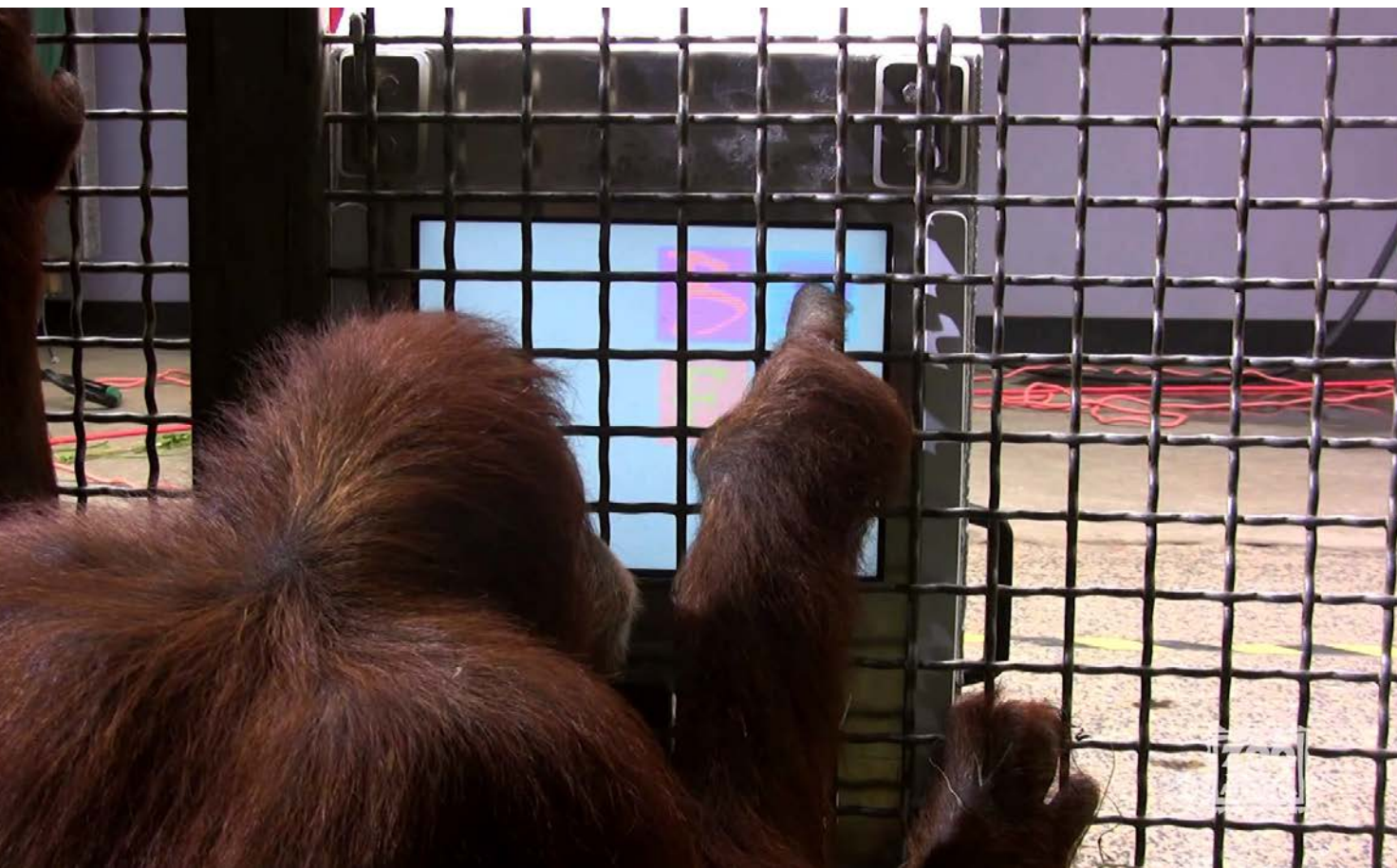
#1

gorilla game lab

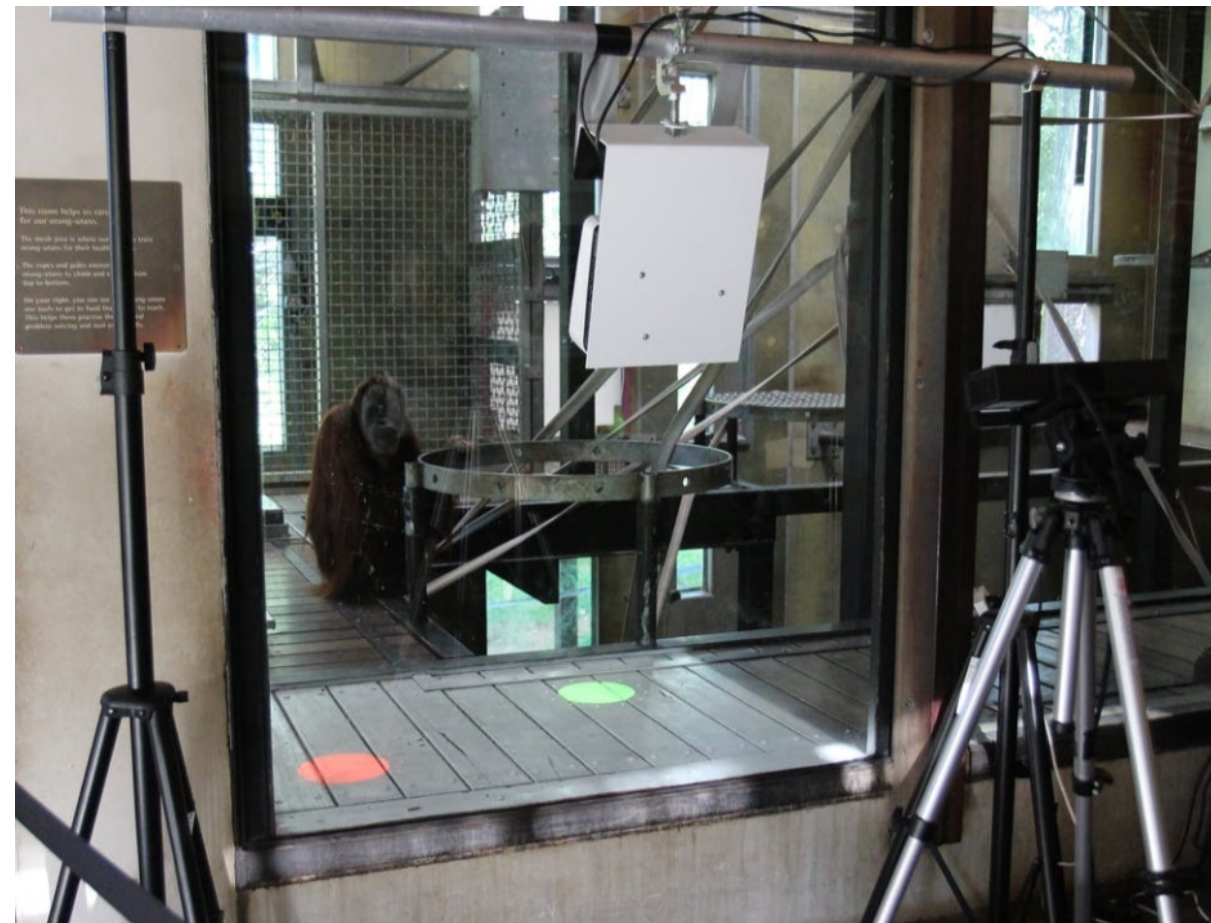
... how can you design games for gorillas?



gorilla game lab



Atlanta Zoo



Melbourne Zoo

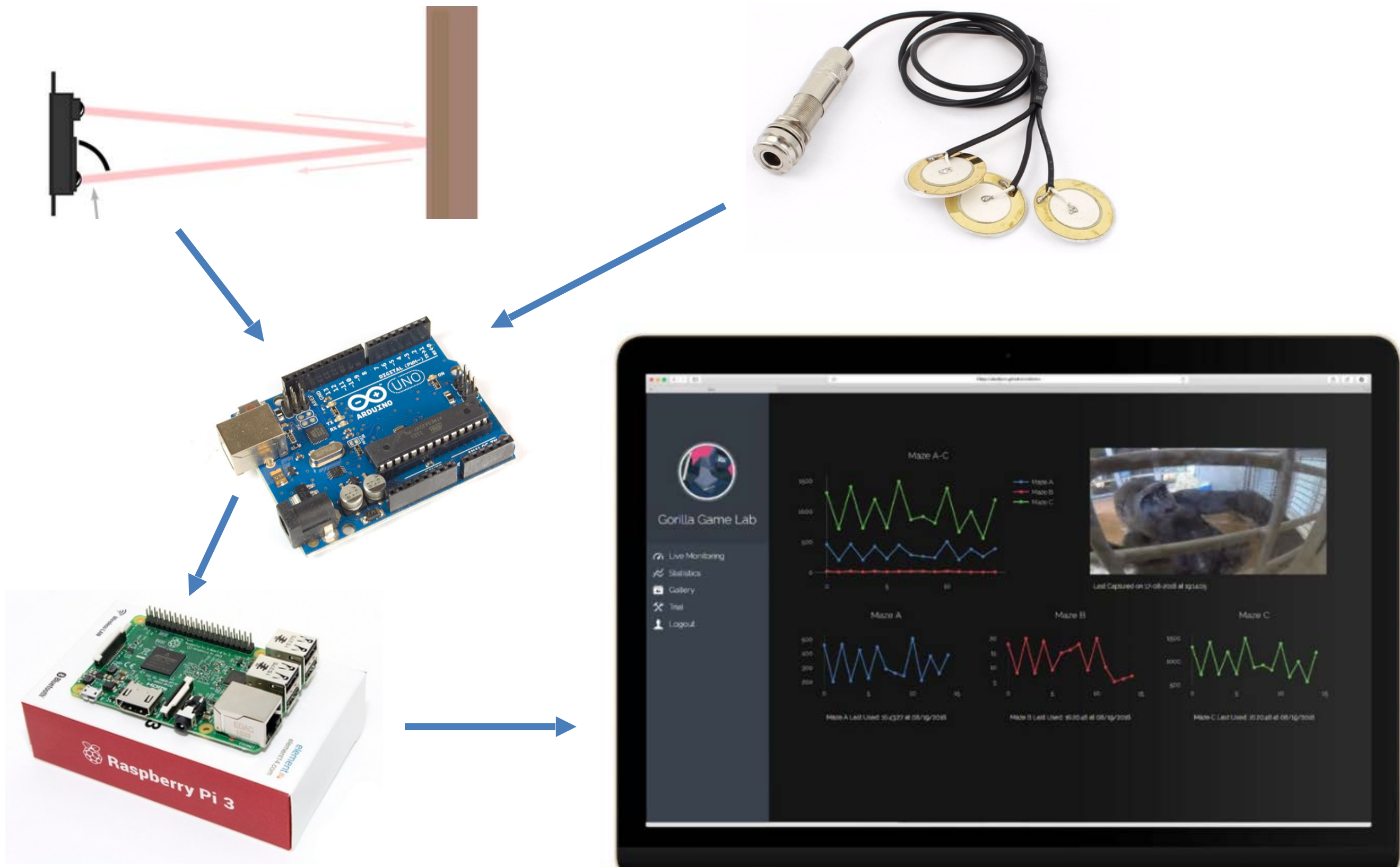
gorilla game lab



gorilla game lab



gorilla game lab



IoT data gathering



gorilla game lab



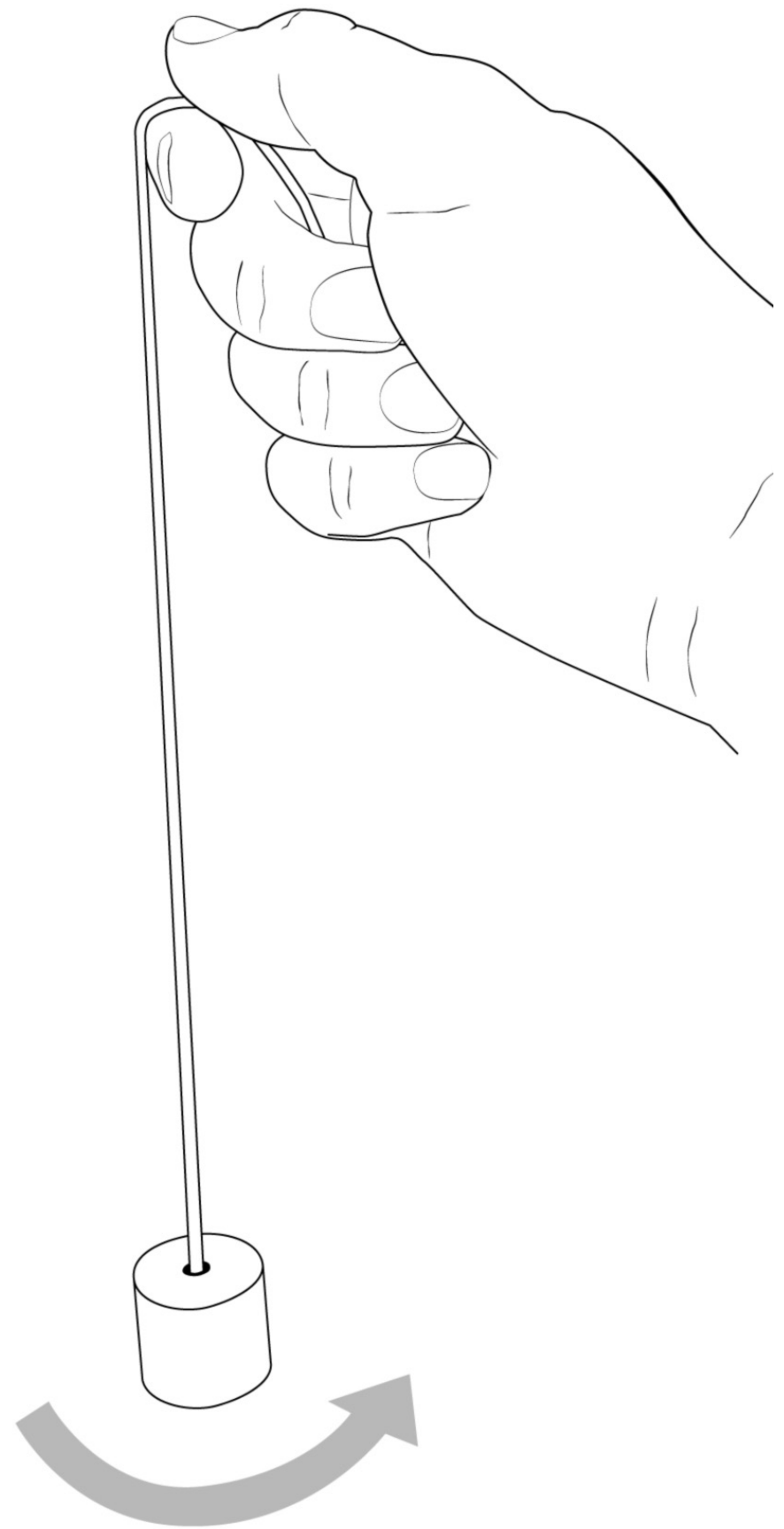
gorilla game lab

#2

toot and play

... how did exploring resonance lead to
interactive beer bottles?

Stuart Nolan...
technology for magic
+ ideomotor response



toot and play

Harmonic Tuner



toot and play



resogami with Coco Sato

Audible Resonant Interaction



toot and play



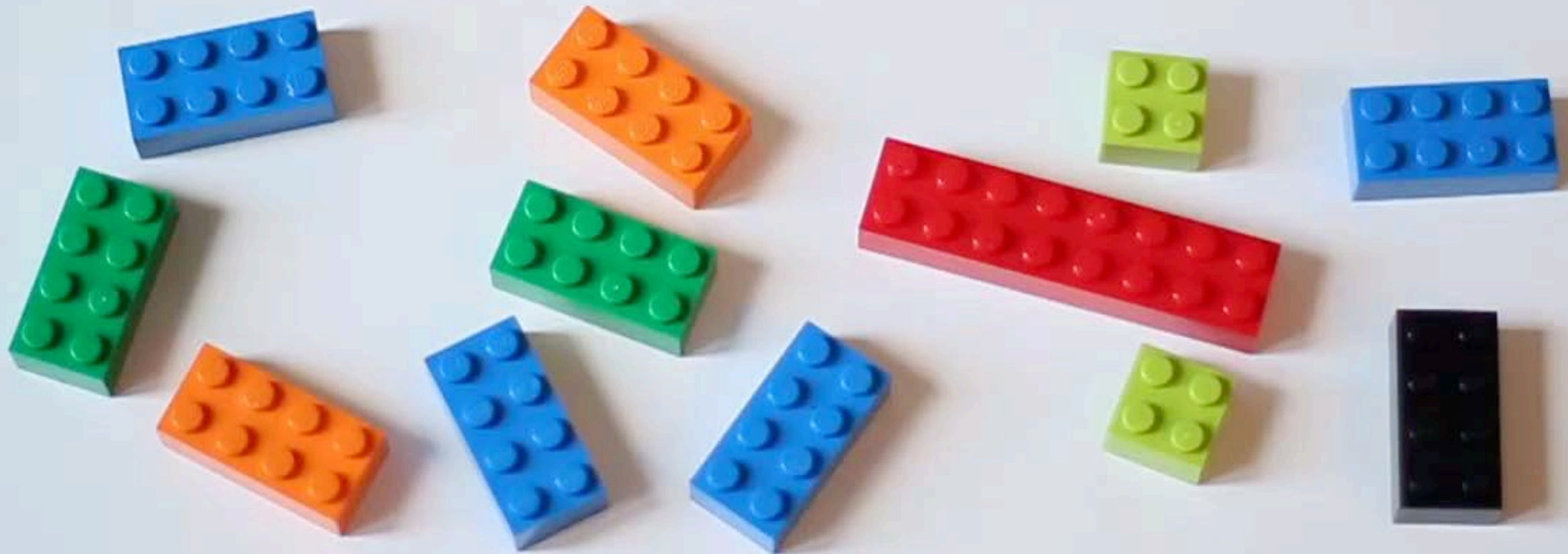
#3

instructiblocks

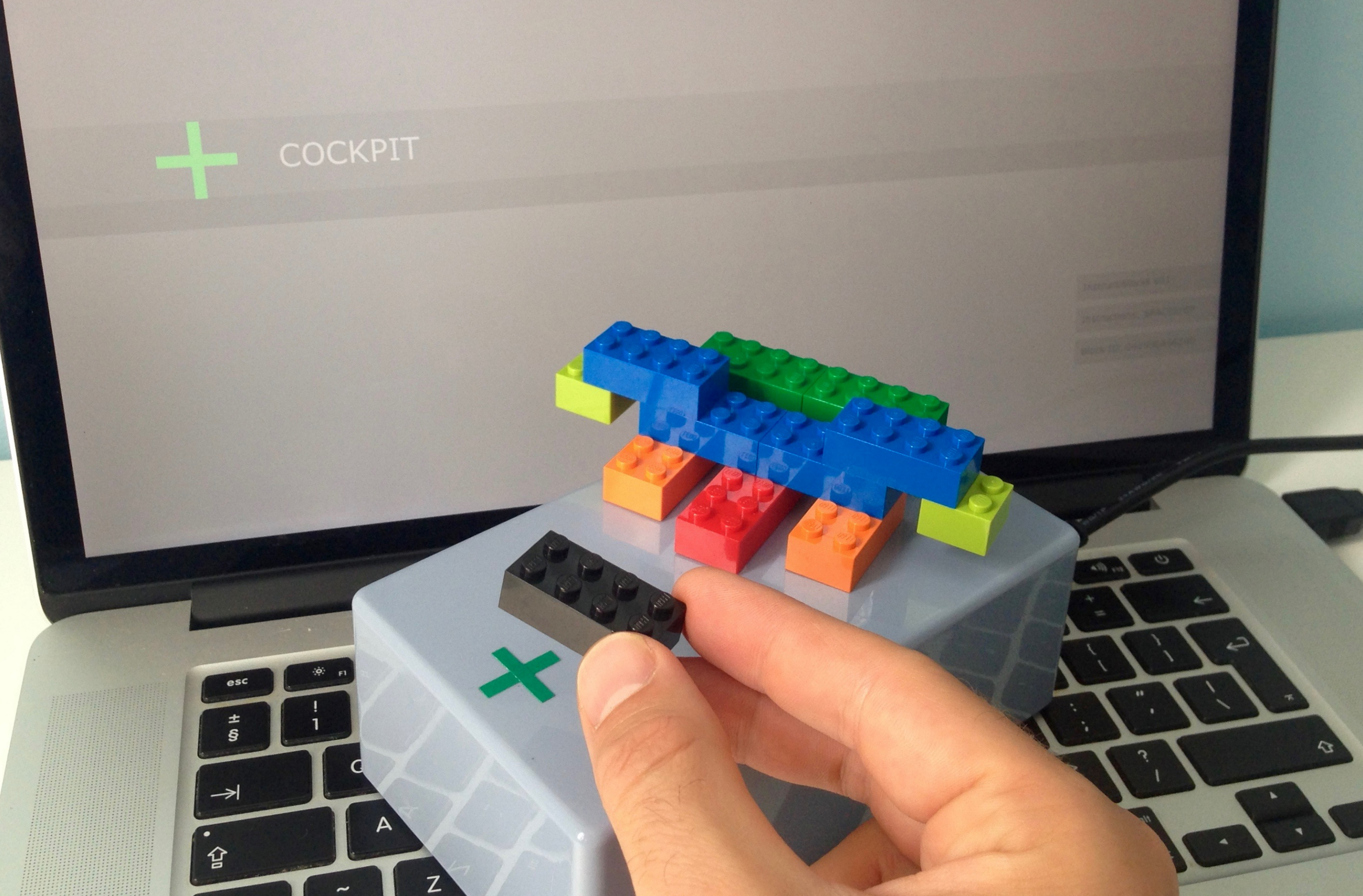
... can ambiguity lead to creativity?

InstructiBlocks:

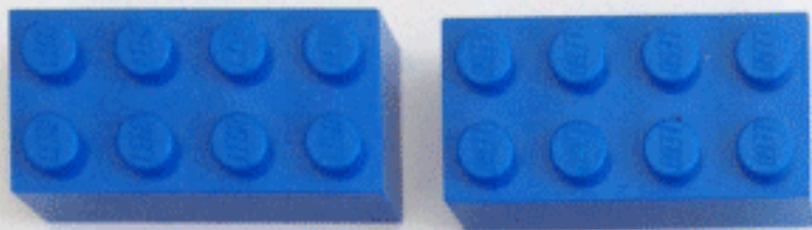
ambiguity in physical digital models



instructiBlocks: ambiguous instructions



instructiBlocks: ambiguous instructions



BLUE BLOCKS ARE WINGS



PASSENGER COMPARTMENT



ROCKET ENGINE



TAIL FIN

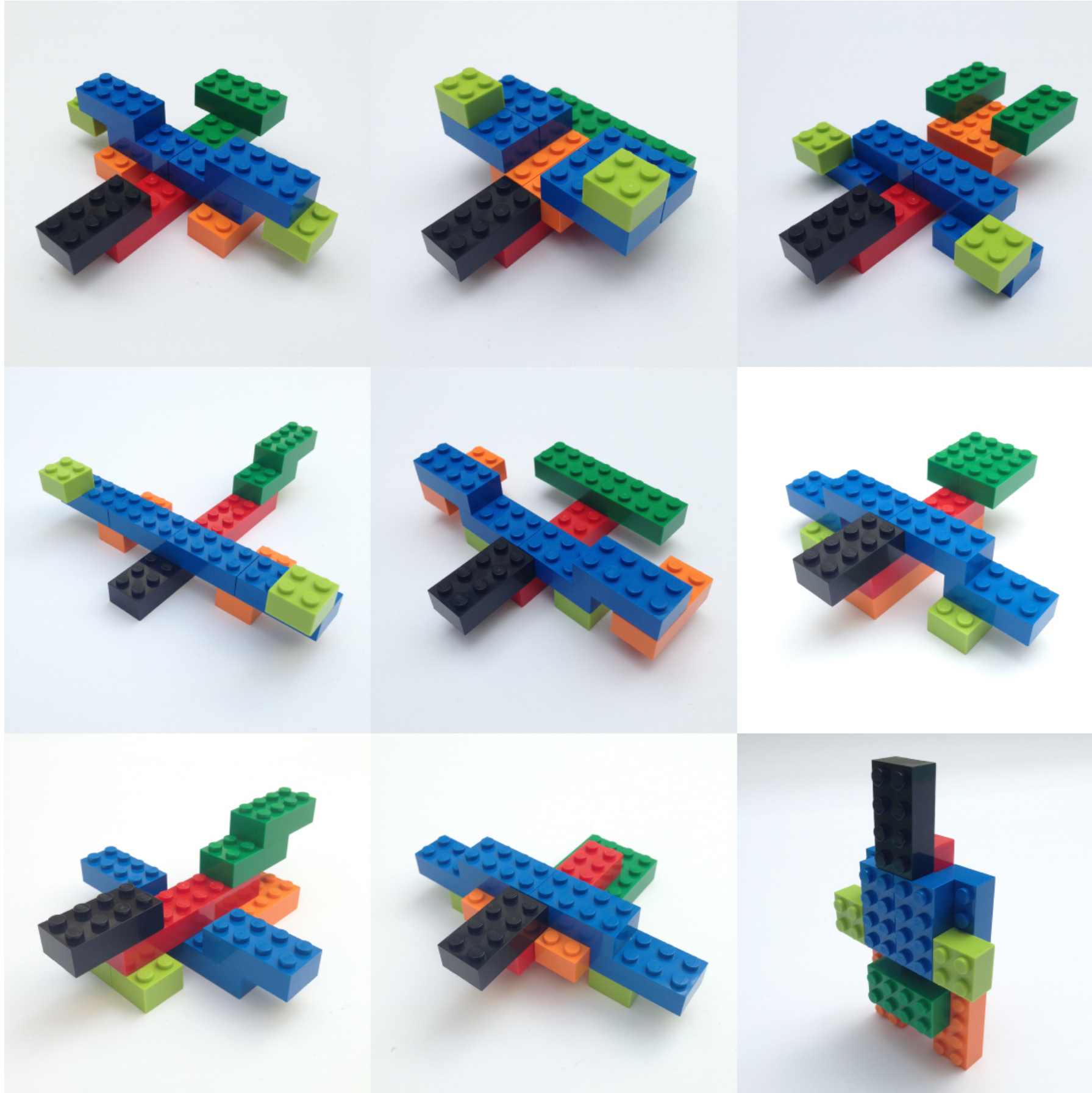


MISSILE



COCKPIT

instructiBlocks: ambiguous instructions



instructiBlocks: ambiguous instructions

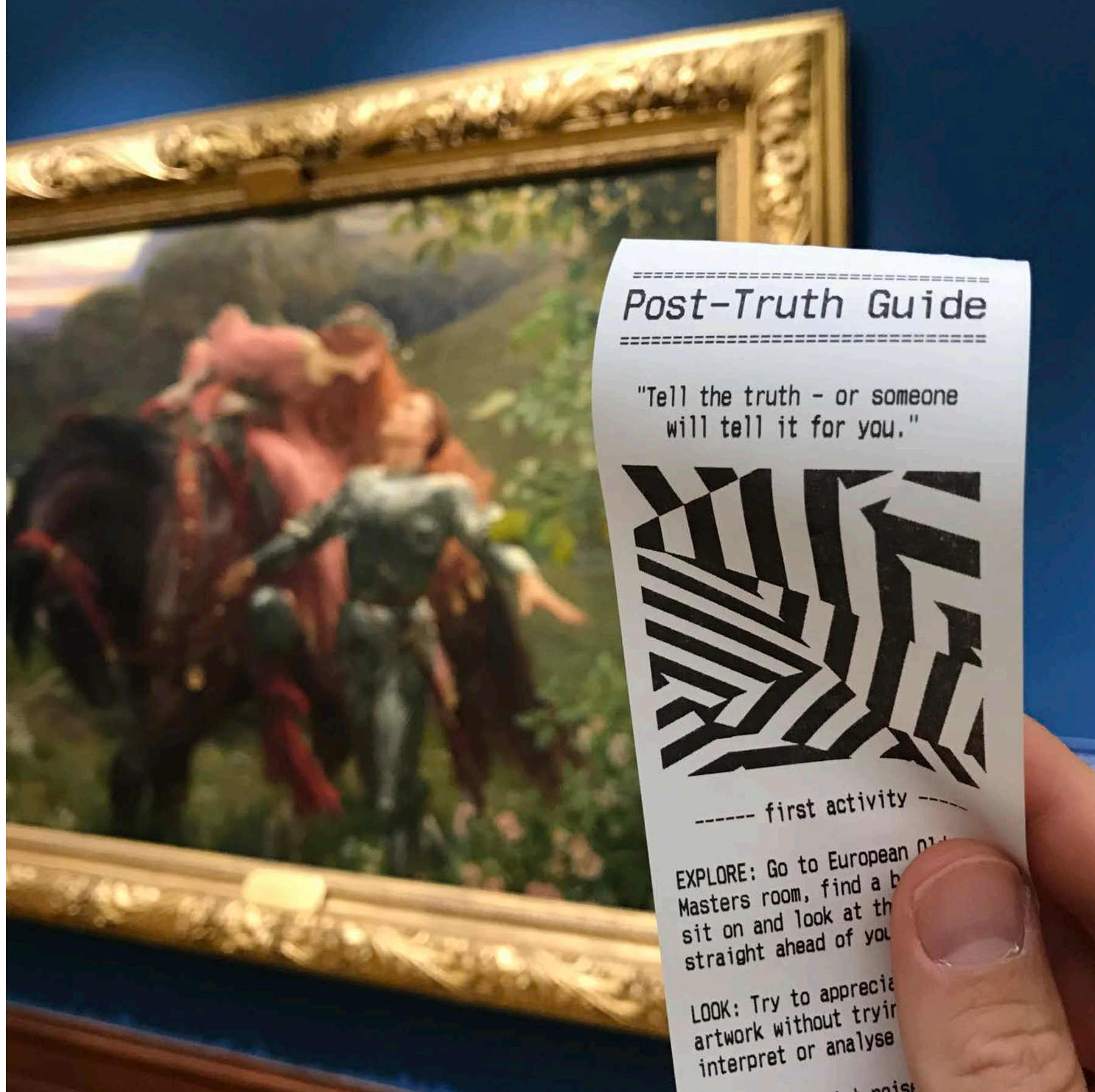
#4

post-truth guide

... designing an ambiguous museum guide



post-truth museum guide



Post-Truth Guide

"Tell the truth - or someone
will tell it for you."



----- first activity -----

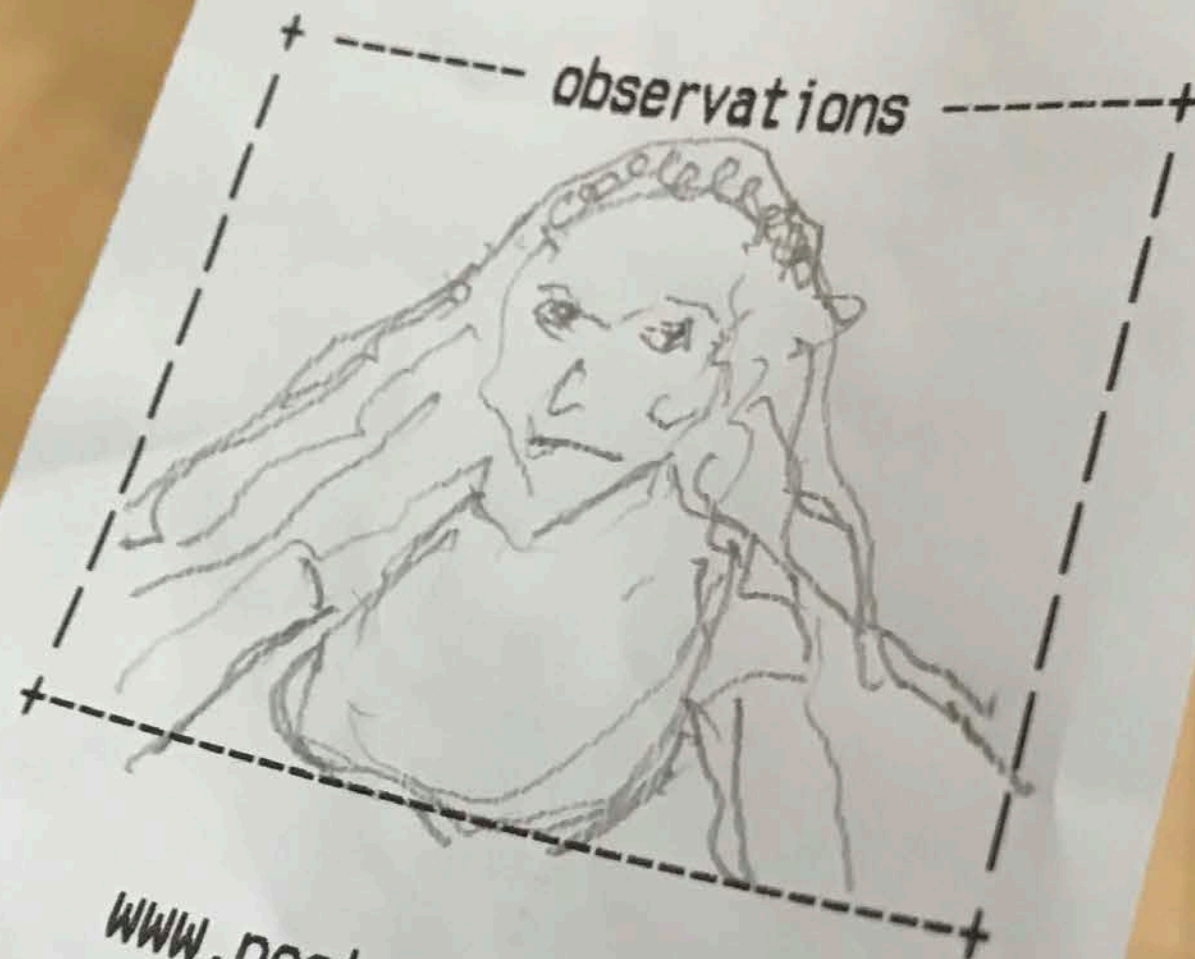
EXPLORE: Go to European
Masters room, find a b
sit on and look at th
straight ahead of you

LOOK: Try to apprecia
artwork without tryin
interpret or analyse

post-truth museum guide

LOOK: Don't read the interpretation. What do you think the painting is about?

DO: Draw a small picture of the artwork in the observations box below.



www.post-truth.guide
#posttruthguide

Funded by
Bri



post-truth museum guide



post-truth museum guide

background

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#1 gorilla game lab

#2 interactive beer bottles

ambiguity:

#3 instructiblocks

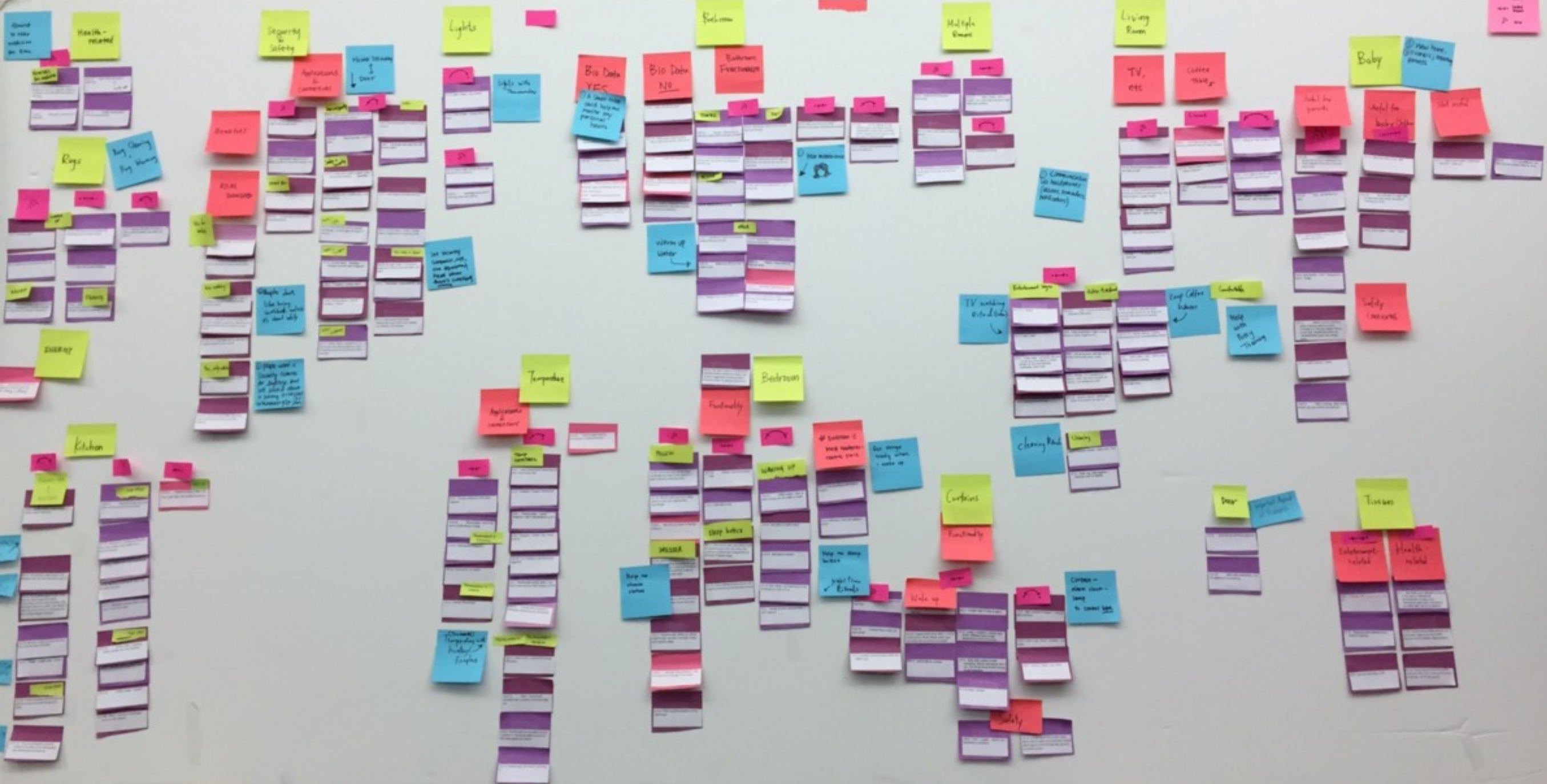
#4 post-truth guide

demo your designs!

new brief:
Communiqué pt2

brainstorm new ideas

group of 4-5

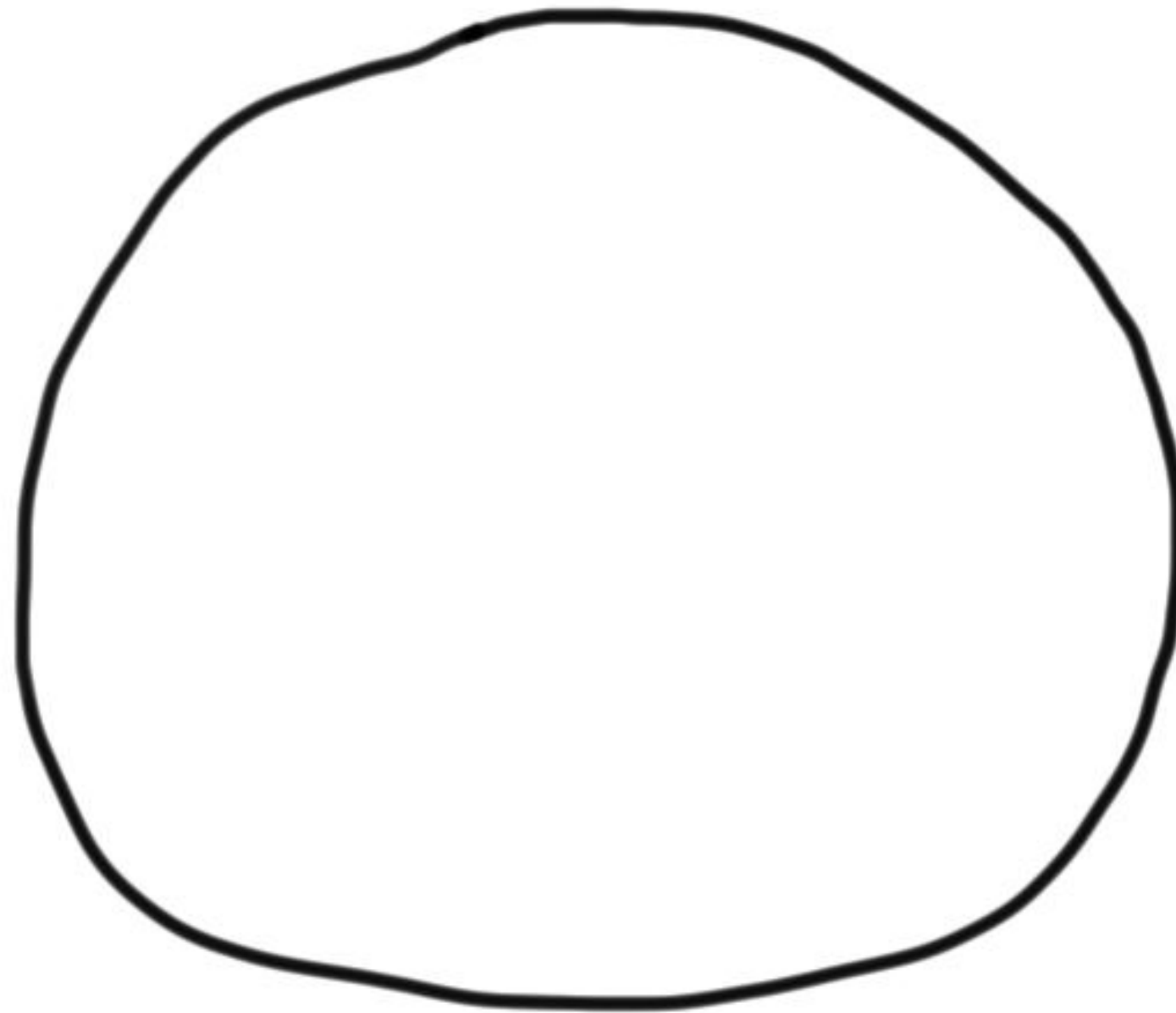


IDEO's seven rules of brainstorming

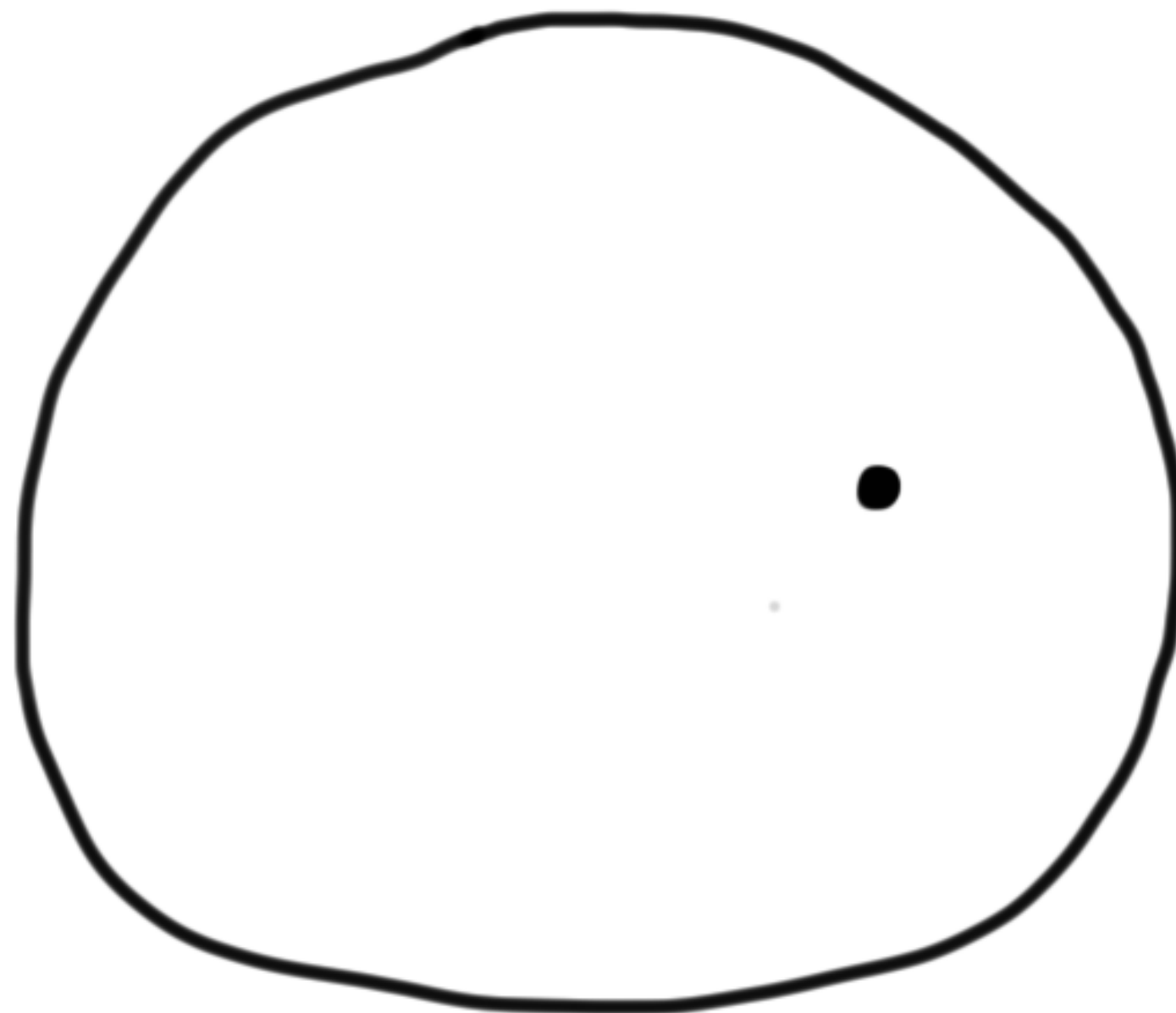
1. Defer judgement
2. Encourage wild ideas
3. Build on the ideas of others
4. Stay focused on the topic
5. One conversation at a time
6. Be visual
7. Go for quantity

category ideas

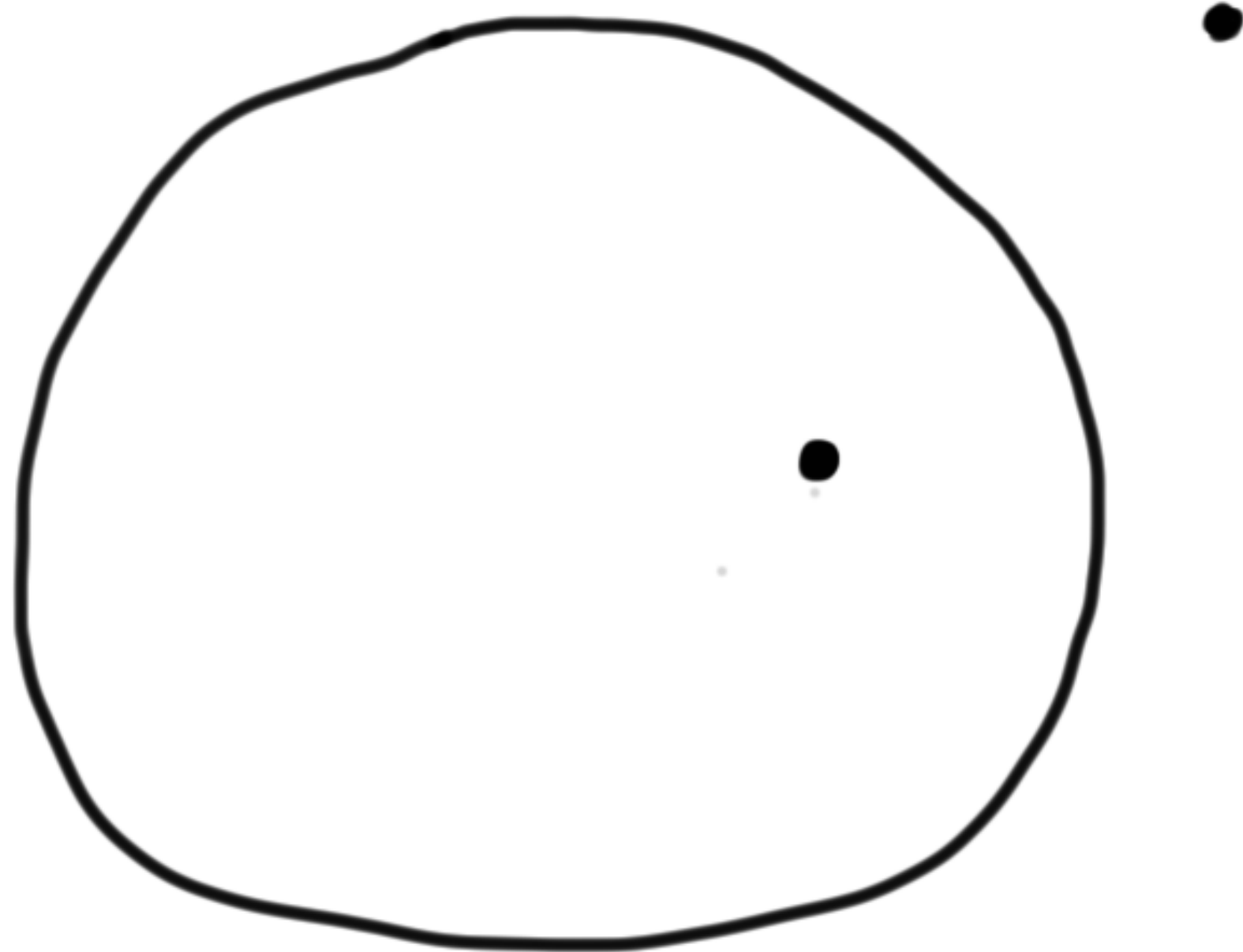
exploring design space



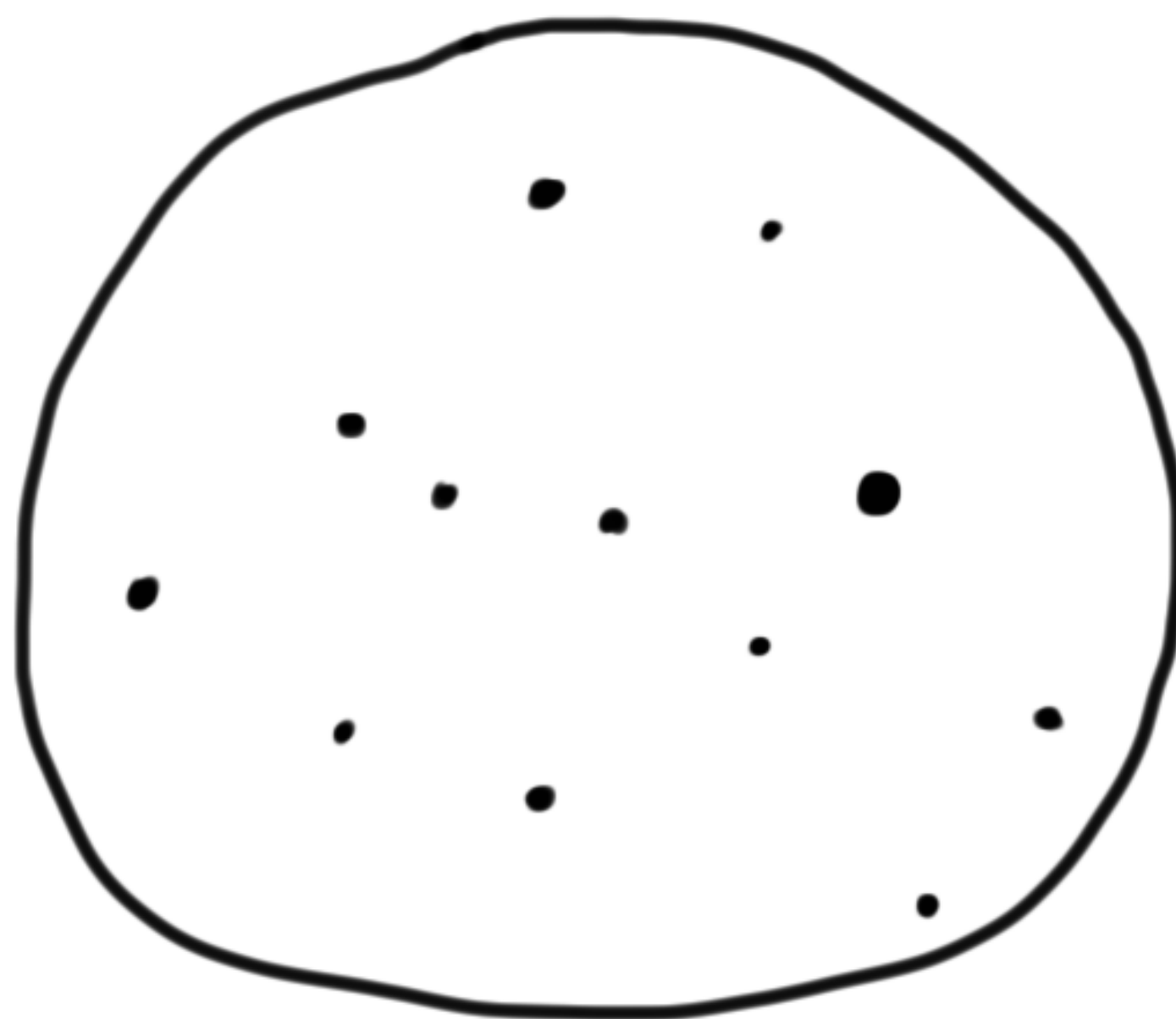
the question – “how to drink tea”



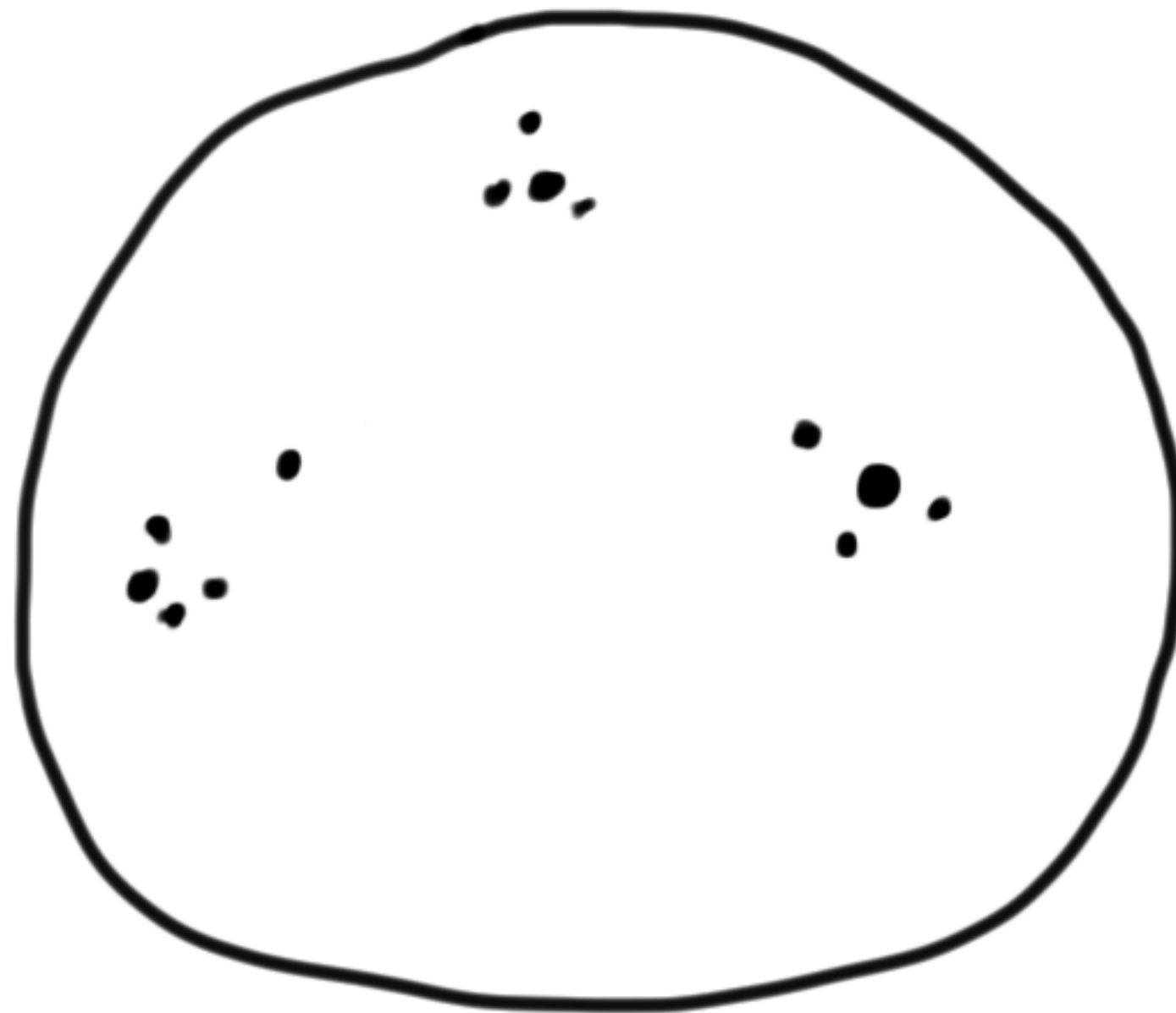
one possible answer to the question



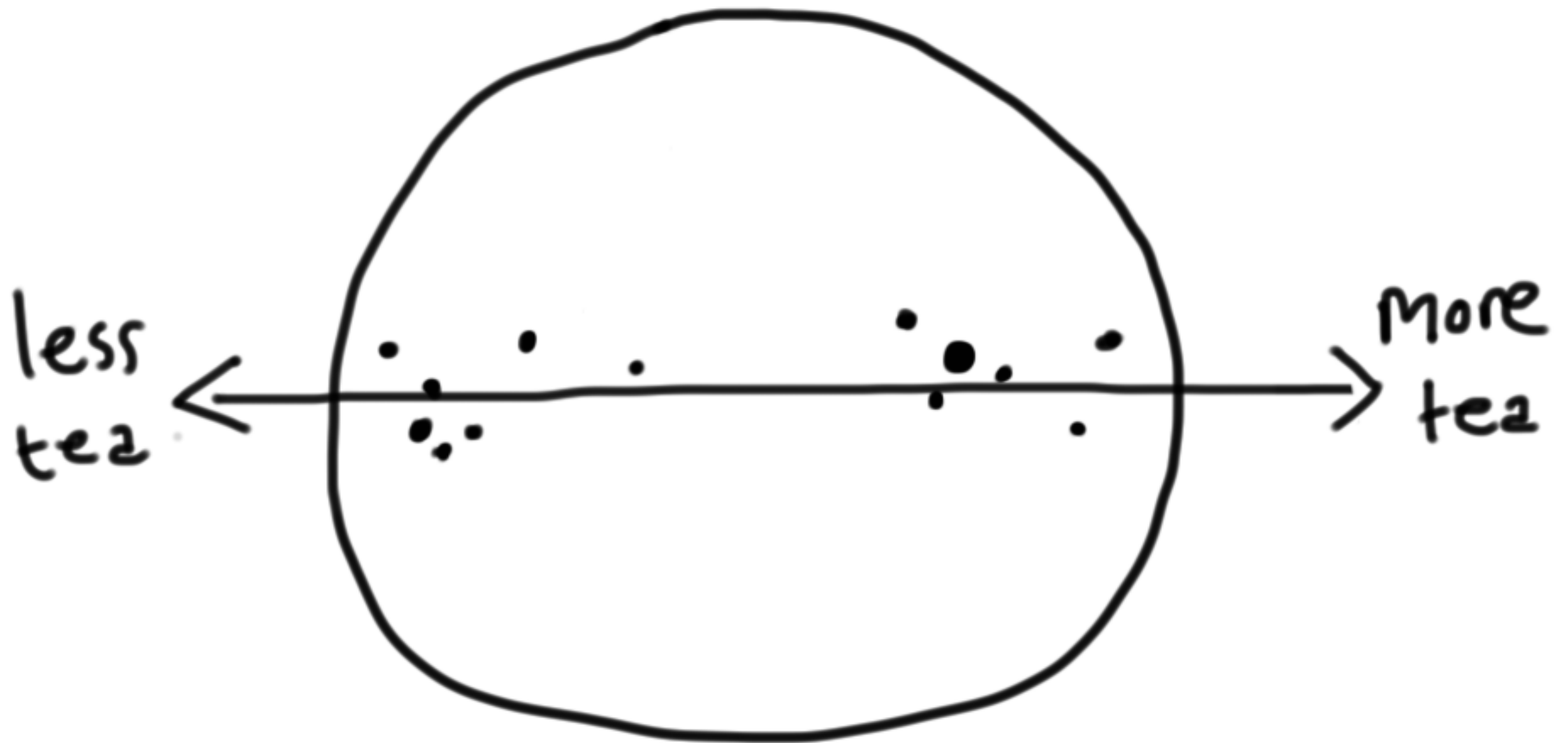
...or not an answer to the question



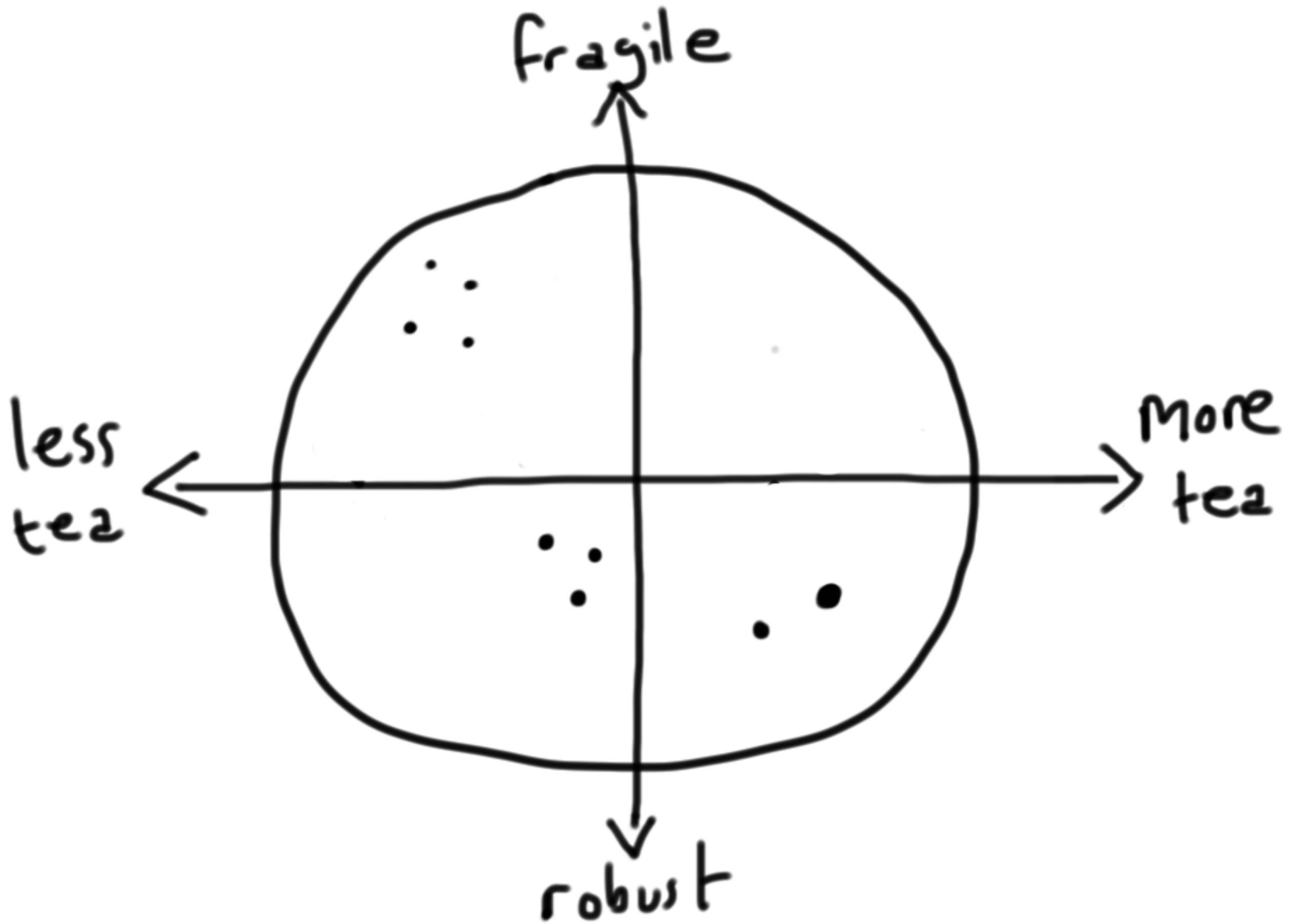
examples of ideas



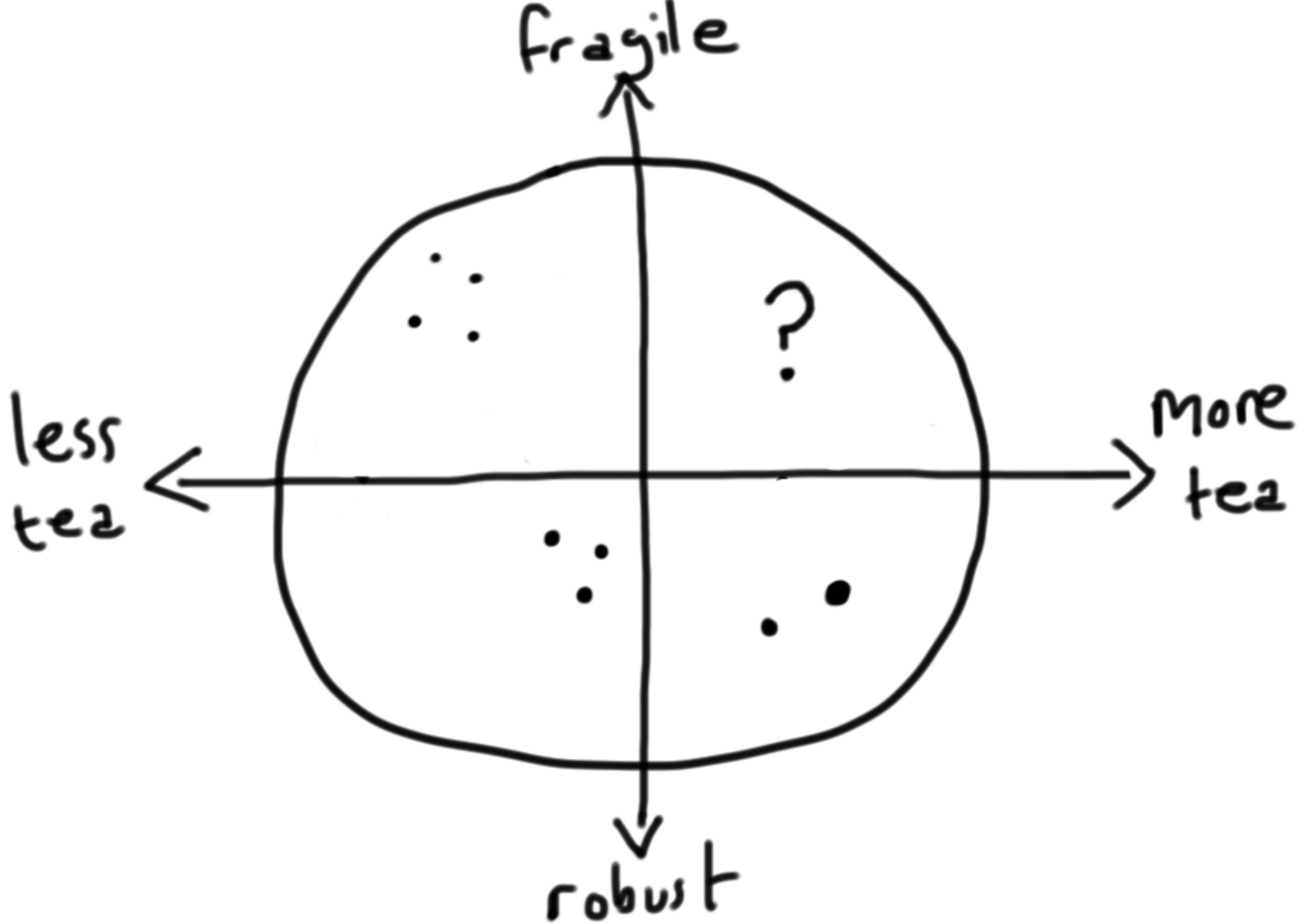
grouping similar ideas



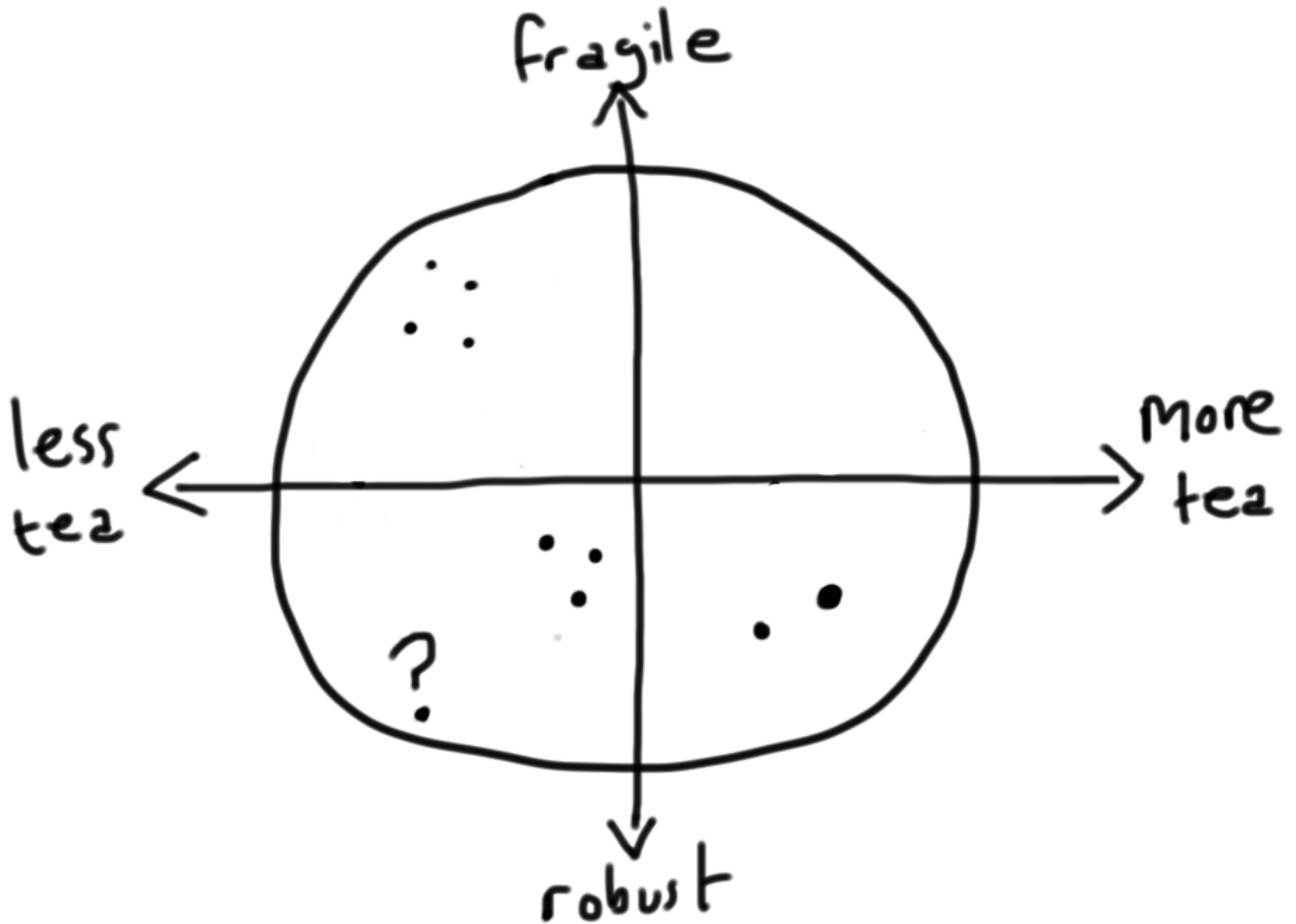
add a parameter



two parameters



spotting a blank area



spotting a more niche one

fragile ←————→ robust

less tea ←————→ more tea

playful ←————→ functional

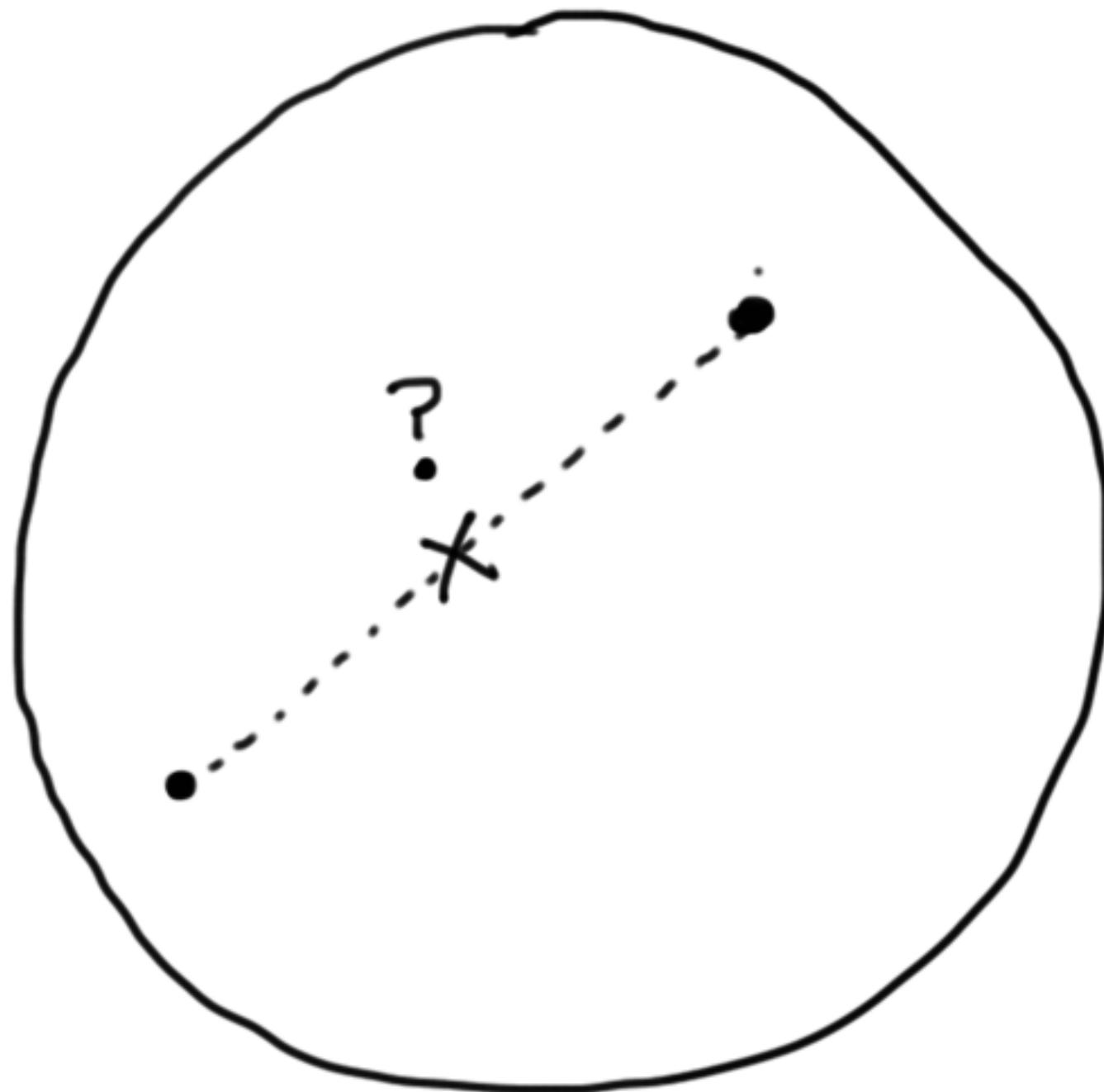
inside ←————→ outside

hot ←————→ cold

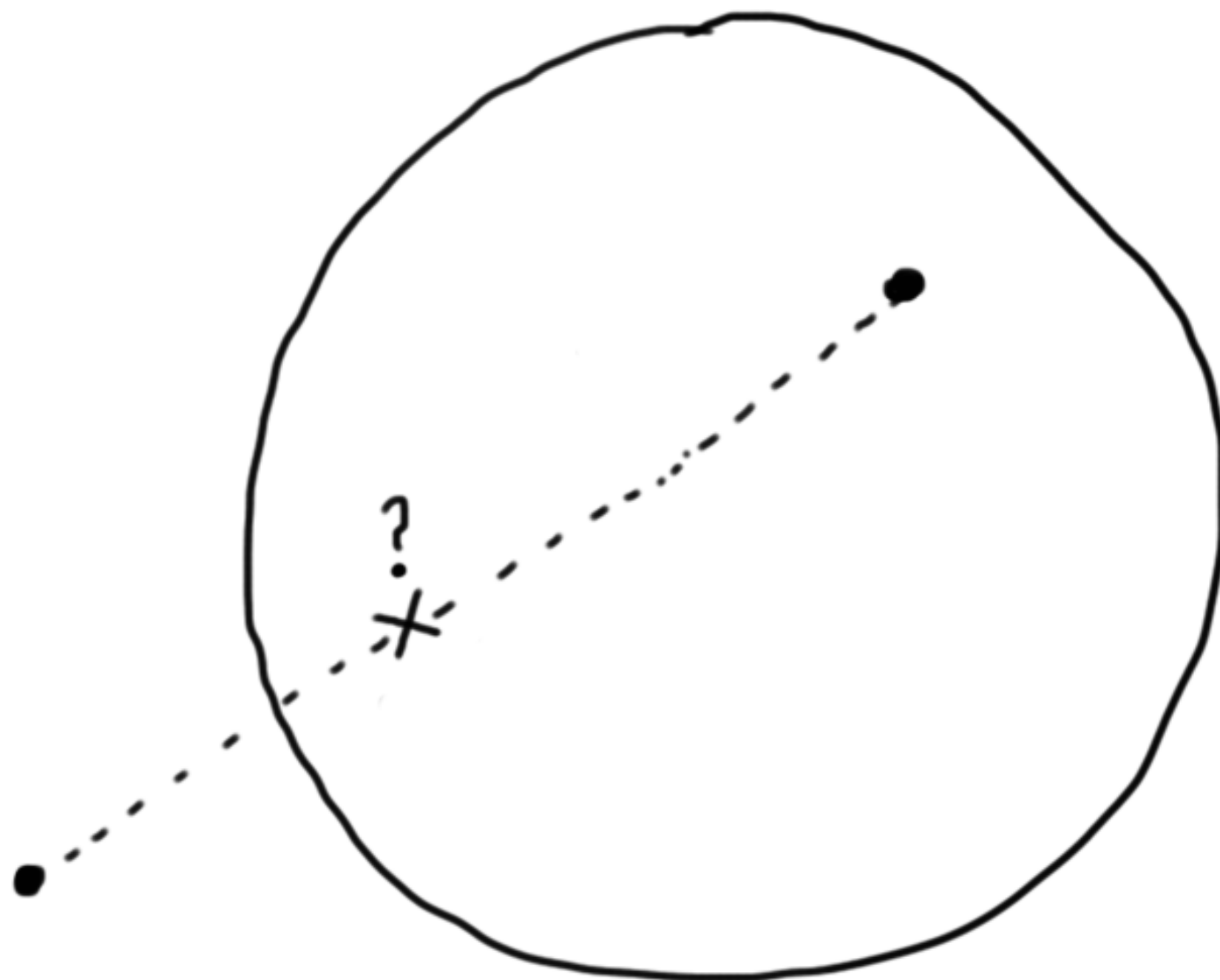
build your vocabulary

Design Space Techniques

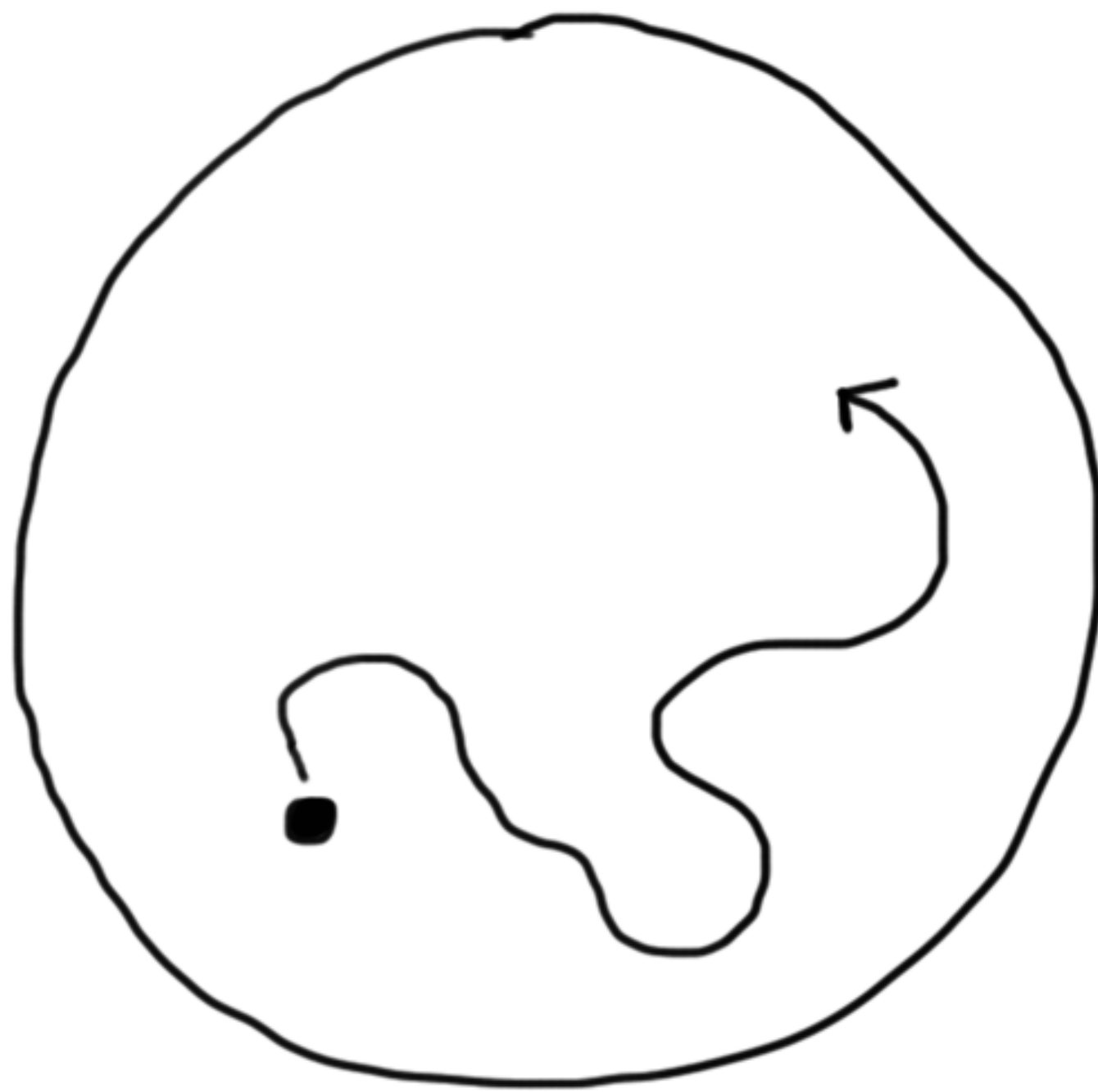
...or what to do with all this?



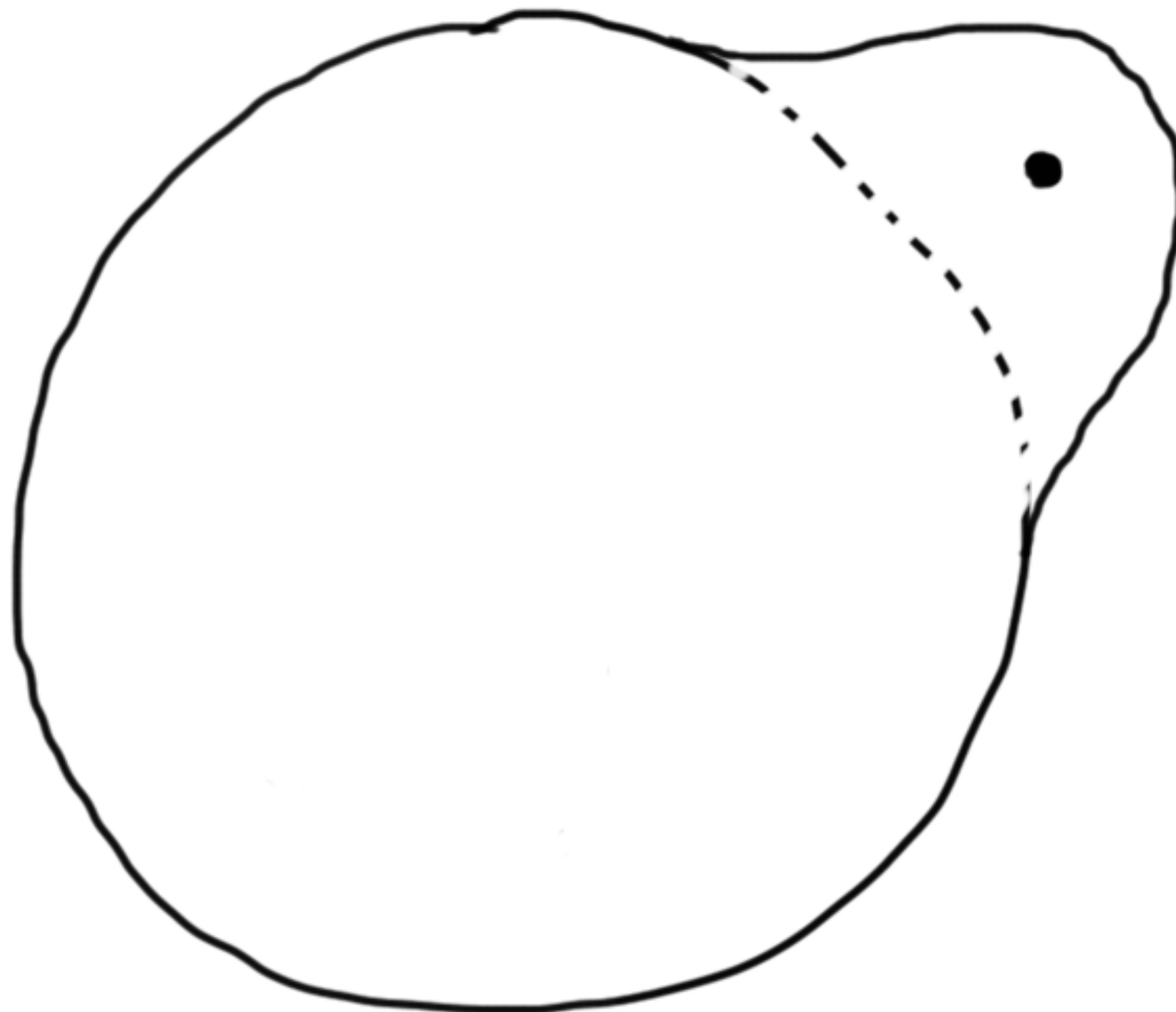
juxtaposition



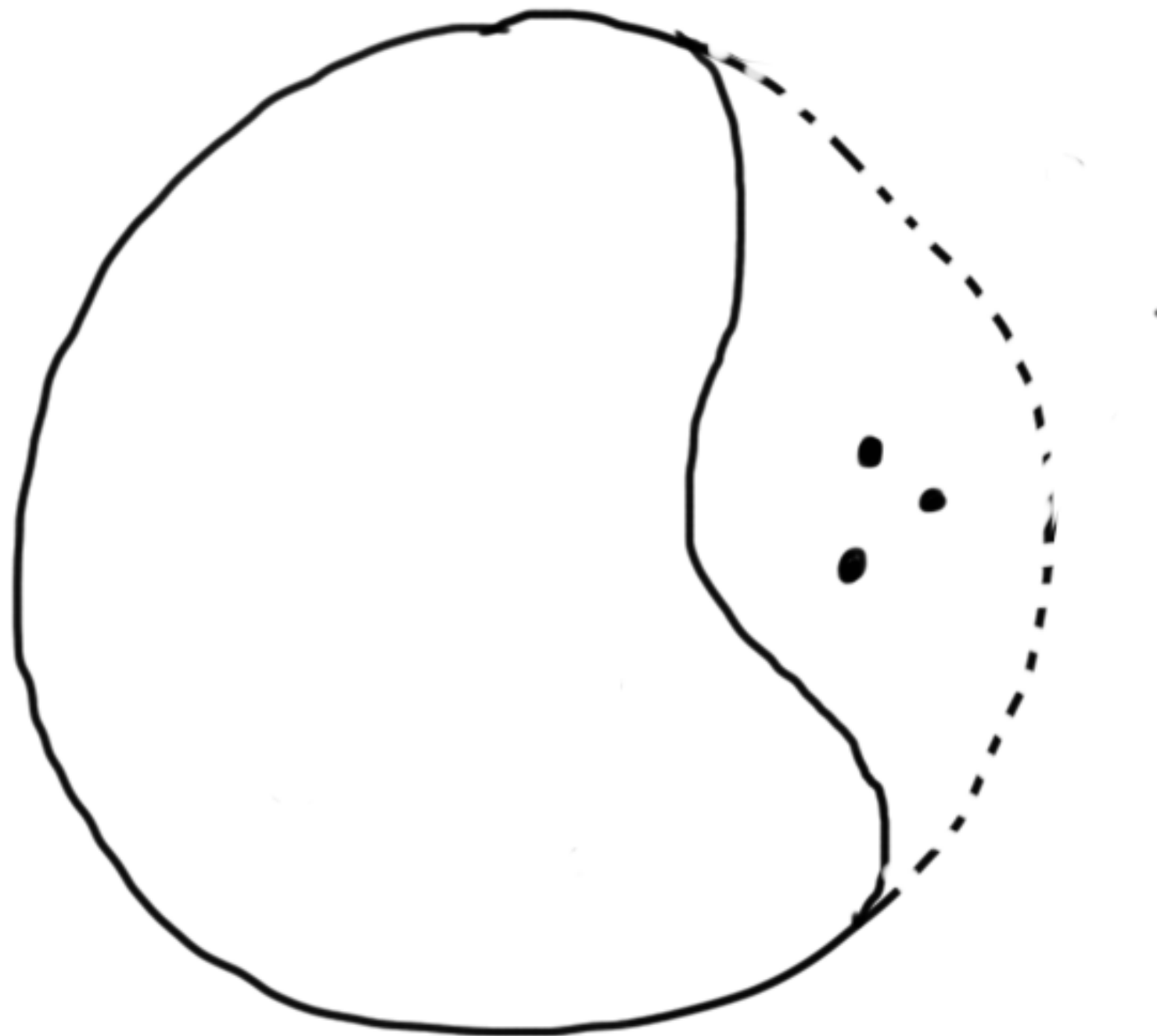
juxtaposition



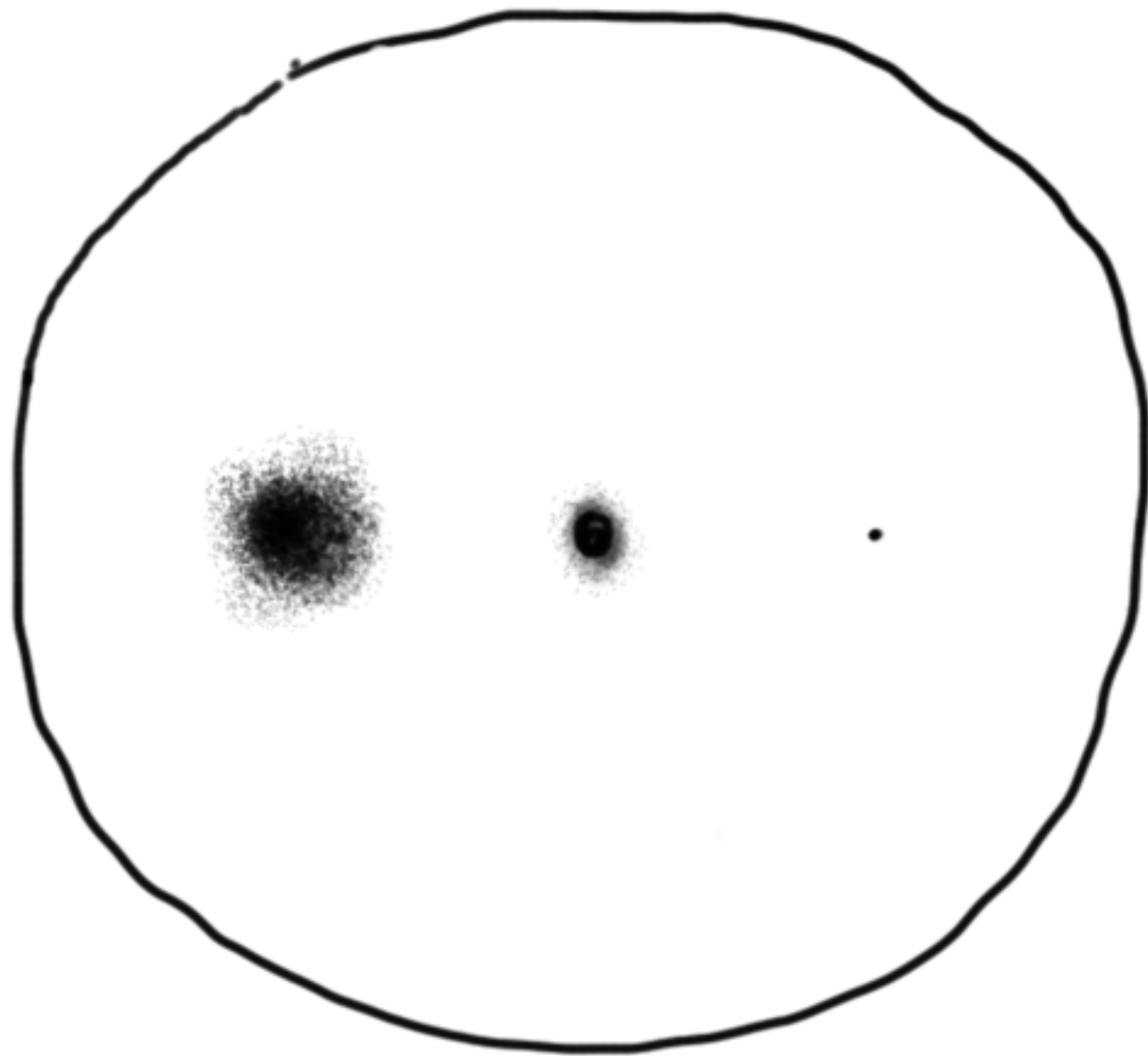
go for a walk, have a look around



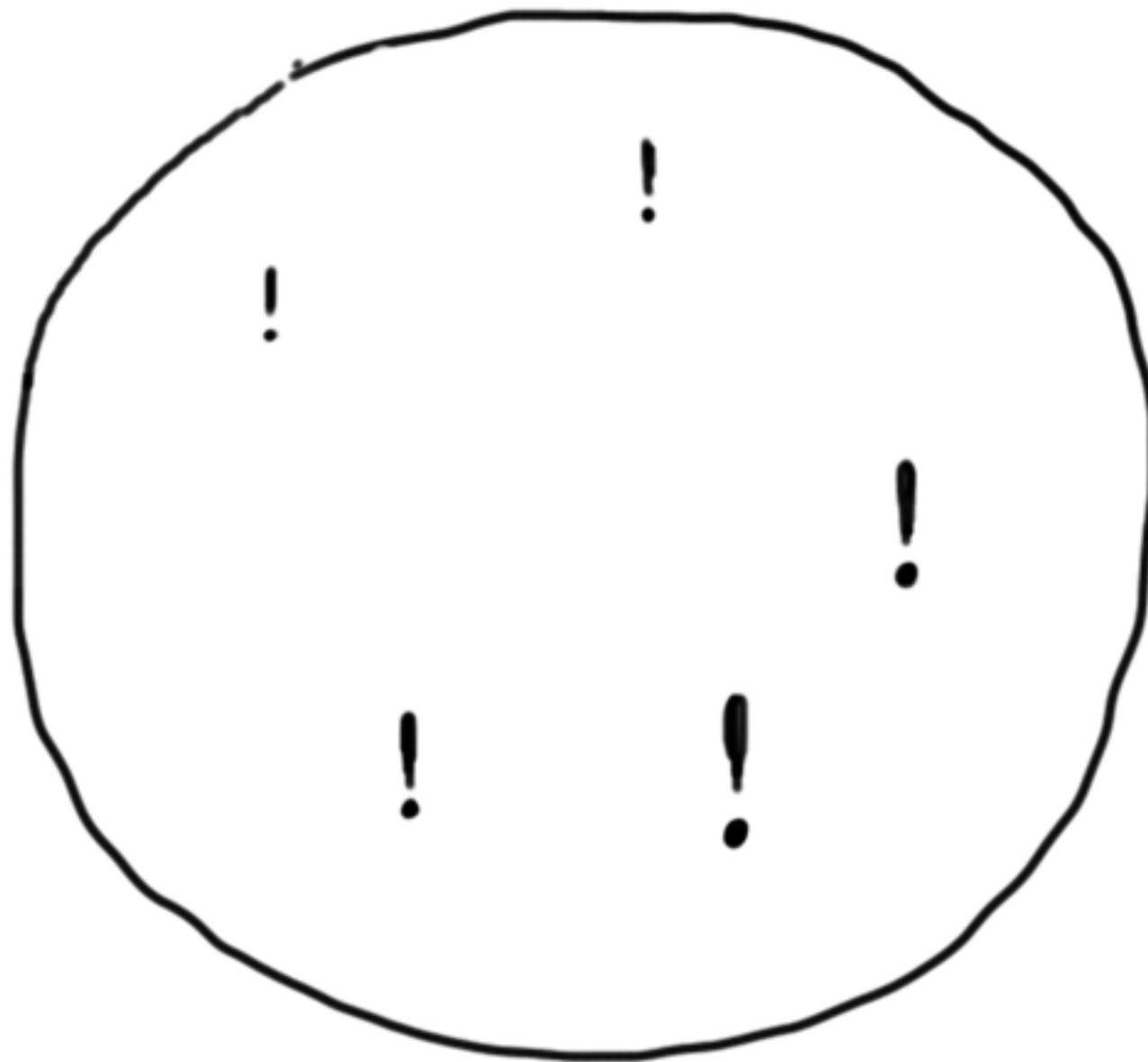
redefine (expand) original question



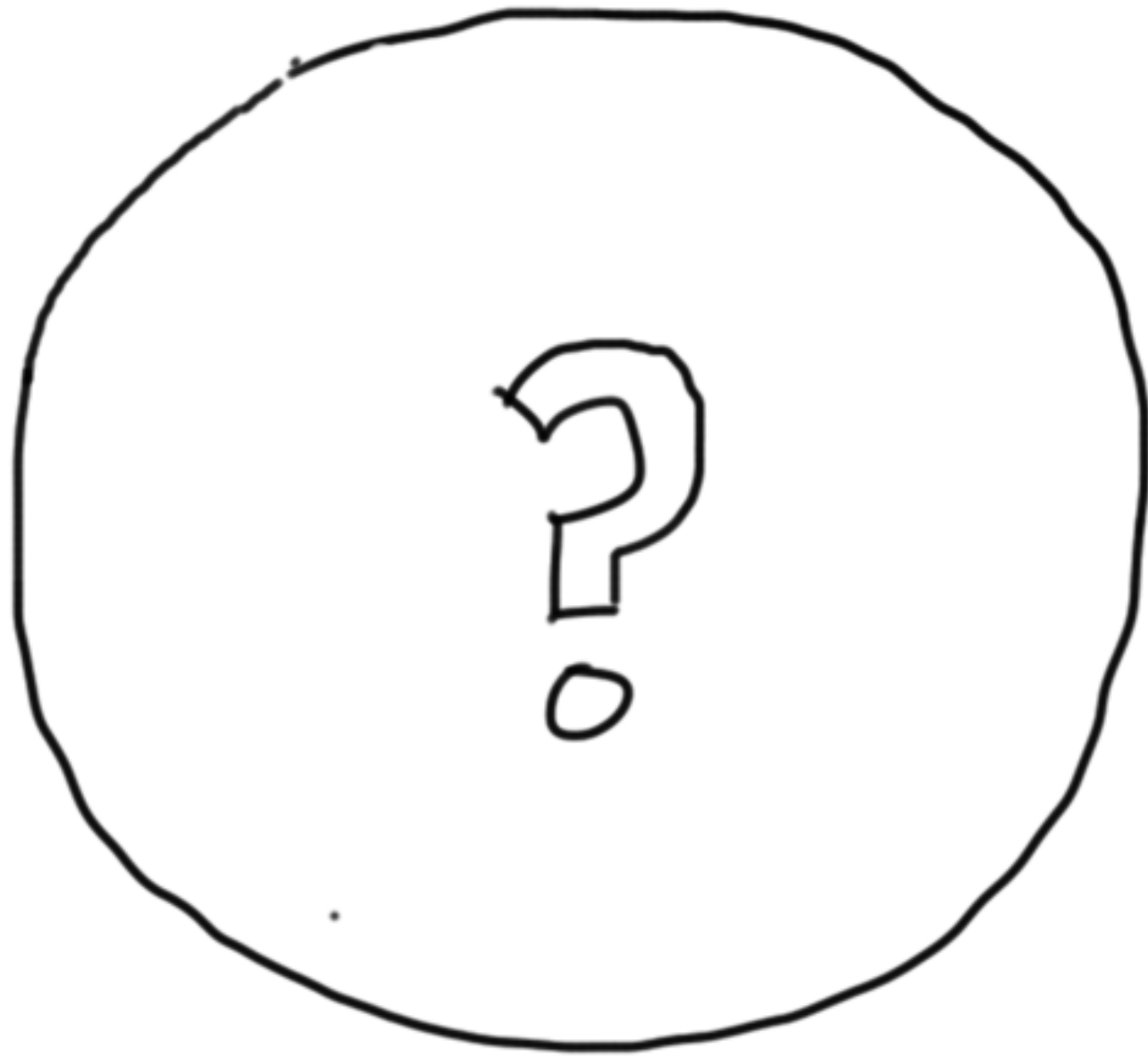
redefine (reduce) original question



consider focus



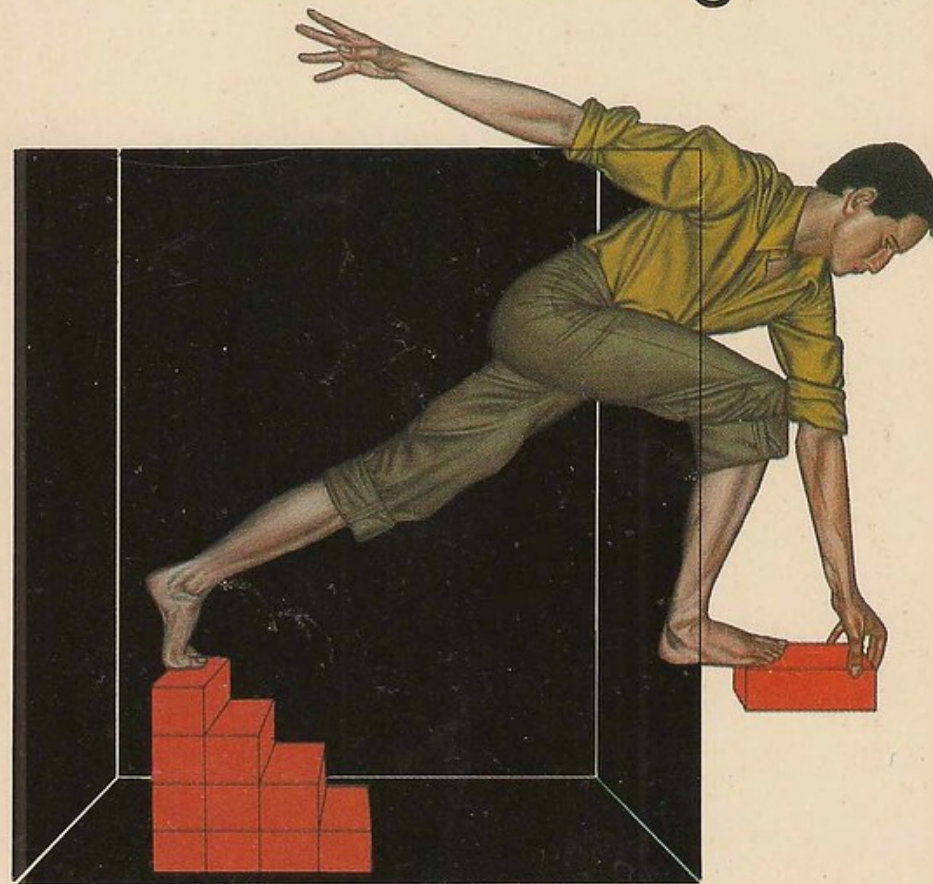
map out terrible ideas



make up your own methods

EDWARD DE BONO

Lateral Thinking



Edward de Bono's Six Thinking Hats Model for Critical Thinking and Problem Solving



WHITE HAT

- Objectivity
- Fact-finding

Wear the white hat to focus objectively on the available facts and figures.



RED HAT

- Passion
- Intuition
- Emotions

Wear the red hat to look at the problem using intuition, gut reaction, and emotion.



BLACK HAT

- Caution
- Pessimism
- Somberness

Wear the black hat to be vigilant and consider the negative sides of the event, issue, or problem.



YELLOW HAT

- Hope
- Optimism

Wear the yellow hat to think positively. Consider all the benefits of the circumstances.



GREEN HAT

- Creativity
- Inventiveness

Wear the green hat to get creative and invent new approaches.









BLUE HAT

- Direction
- Synthesis
- Organization

Wear the blue hat to perform meta thinking. Scrutinize and direct discussion. Synthesize all viewpoints.

Edward de Bono's Six Thinking Hats Model for Critical Thinking and Problem Solving

	WHITE HAT	<ul style="list-style-type: none"> • Objectivity • Fact-finding 	Wear the white hat to focus objectively on the available facts and figures.
	RED HAT	<ul style="list-style-type: none"> • Passion • Intuition • Emotions 	Wear the red hat to look at the problem using intuition, gut reaction, and emotion.
	BLACK HAT	<ul style="list-style-type: none"> • Caution • Pessimism • Somberness 	Wear the black hat to be vigilant and consider the negative sides of the event, issue, or problem.
	YELLOW HAT	<ul style="list-style-type: none"> • Hope • Optimism 	Wear the yellow hat to think positively. Consider all the benefits of the circumstances.
	GREEN HAT	<ul style="list-style-type: none"> • Creativity • Inventiveness 	Wear the green hat to get creative and invent new approaches.
	BLUE HAT	<ul style="list-style-type: none"> • Direction • Synthesis • Organization 	Wear the blue hat to perform meta thinking. Scrutinize and direct discussion. Synthesize all viewpoints.

<http://www.rightattitudes.com/>

Reference: Edward de Bono's *Six Thinking Hats*

Initial Ideas – Blue, White, Green, Blue

Choosing between alternatives – Blue, White,(Green), Yellow, Black, Red, Blue

Identifying Solutions – Blue, White, Black, Green, Blue

Quick Feedback – Blue, Black, Green, Blue

Strategic Planning – Blue, Yellow, Black, White, Blue, Green, Blue

Process Improvement – Blue, White, White (Other peoples views), Yellow, Black, Green, Red, Blue

Solving Problems – Blue, White, Green, Red, Yellow, Black, Green, Blue

Performance Review – Blue, Red, White, Yellow, Black, Green Red, Blue

Brian Eno & Peter Schmidt - Oblique Strategies



- Use an old idea.
- State the problem in words as clearly as possible.
- Only one element of each kind.
- What would your closest friend do?
- What to increase? What to reduce?
- Are there sections? Consider transitions.
- Try faking it!
- Honour thy error as a hidden intention.
- Ask your body.
- Work at a different speed.

Brian Eno & Peter Schmidt - Oblique Strategies



“These cards evolved from separate ***observations of the principles underlying what we were doing***. Sometimes they were recognised in retrospect (intellect catching up with intuition), sometimes they were identified as they were happening, sometimes they were formulated.”

Design Thinking

Design thinking is the cognitive process from which design concepts (e.g. ideas for products) emerge. Design thinking is related to, but different from problem-solving, decision-making, creativity, sketching and prototyping.

https://en.wikipedia.org/wiki/Design_thinking

Design Thinking

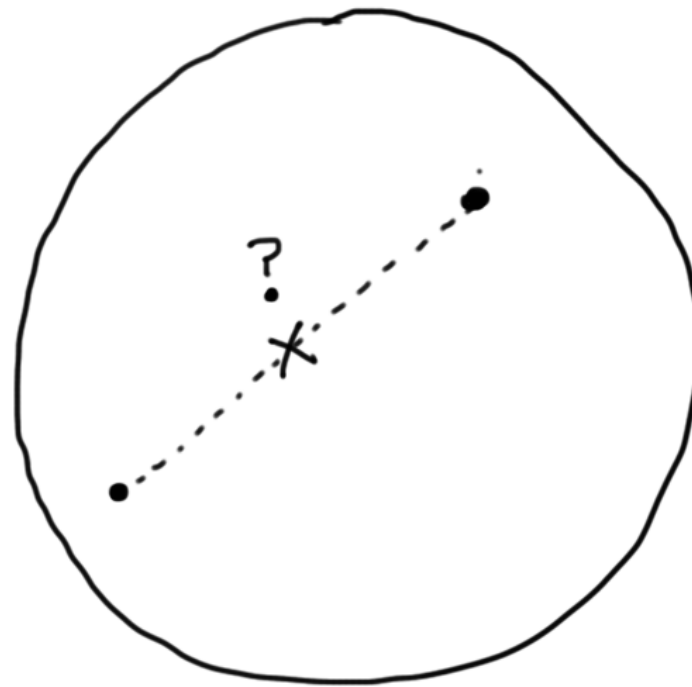
During design thinking, *the designer's attention oscillates between their understanding of a problematic context and their ideas for a solution*. New solution ideas lead to a deeper understanding of the problematic context, which in turn triggers more solution ideas.

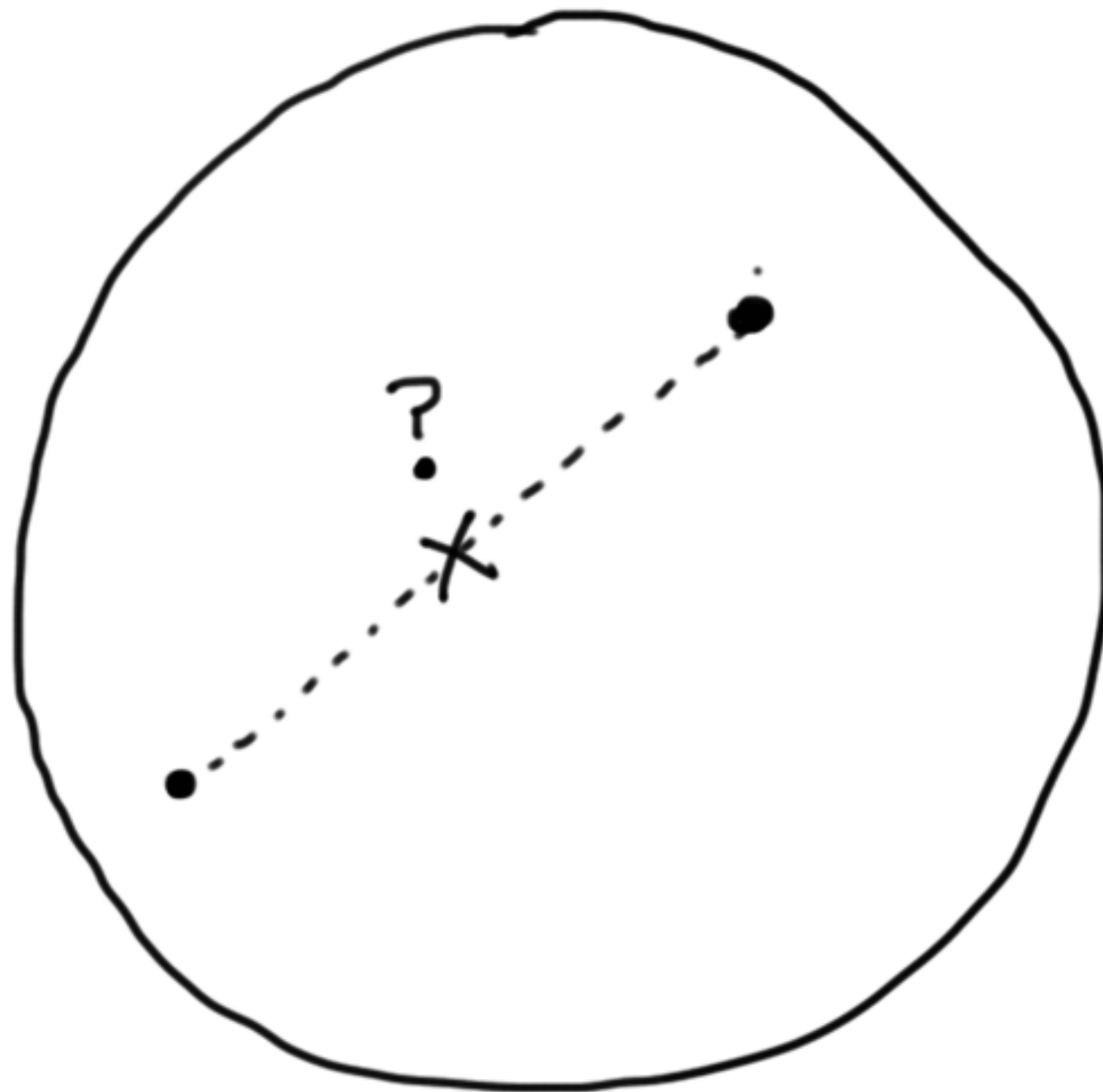
https://en.wikipedia.org/wiki/Design_thinking

lunch

JUXTAPOSE

take two ideas and combine
them in a new way





juxtaposition

NEW RULE

create a new design method
for another group to follow

SWAP

try out another group's
new design method

auto design bot

"I propose to use industrial grade beamers, screens and some magic to make humans feel average and merged. The project should be developed in upper Salt in an open-dating concert."

NOSTALGIA BOT
v4.1c
Trained on a limited set of old Schindler projects, NostalgiaBot conjures up new ideas based on it's long memory of past success and won't listen to your new project ideas.

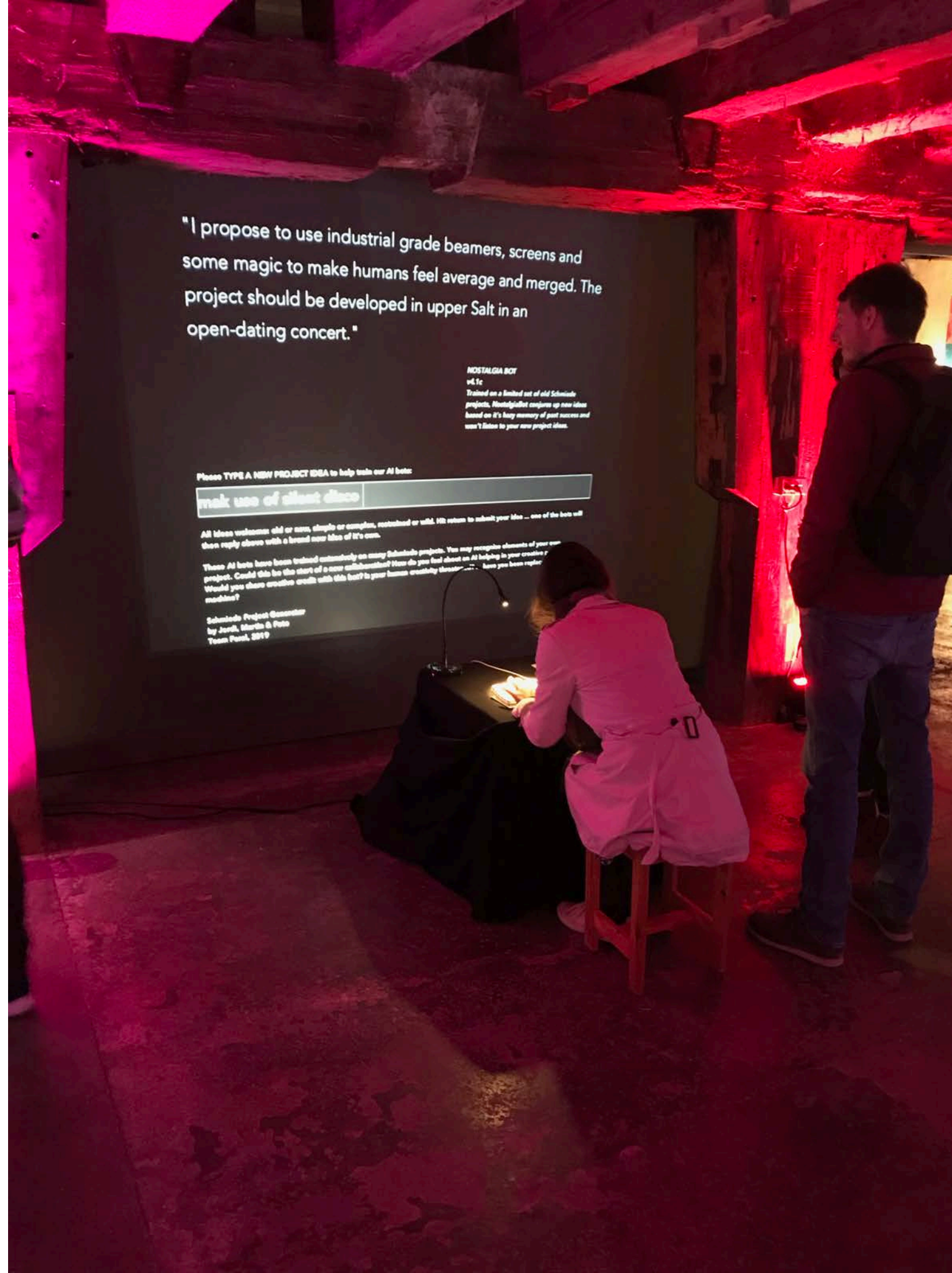
Please TYPE A NEW PROJECT IDEA to help train our AI bots

Frank use of silent disco

All ideas welcome old or new, simple or complex, established or wild. Hit return to submit your idea ... one of the bots will then reply above with a brand new idea of it's own.

These AI bots have been trained exclusively on many Schindler projects. You may recognize elements of your own project. Could this be the start of a new collaboration? How do you feel about an AI helping in your creative process? Would you share creative credit with this bot? Is your human creativity threatened? ... have you been replaced?

Schindler Project Generator
by Jordy, Martin & Peter
Team Perot, 2019



"I would like to make art in the darkness, flashing regularly."

SMITH BOT
v1.2a

This is the most advanced bot and generates projects based on an extensive memory of past projects.

Please TYPE A NEW PROJECT IDEA to help train our AI bots:

I want a project to make the light thinkin

All ideas welcome: old or new, simple or complex, sustained or wild. Hit return to submit your idea ... one of the bots will then reply above with a brand new idea of its own.

These AI bots have been trained exclusively on many Scholastic projects. You may recognize elements of your own project. Could this be the start of a new collaboration? How do you feel about an AI helping in your creative practice? Would you share creative credit with this bot? Is your human creativity threatened? ... have you been replaced by the machine?

Scholastic Project Generator
by Josh, Martin & Pete
Team Ford, 2019



"A spinning wheel mounted on a sofa with wheels. There is a noise feedback piece based on never ending tasks."

SMITH BOT

v8.2a

This is the most advanced bot and generates projects based on an extensive memory of past projects.

Please TYPE A NEW PROJECT IDEA to help train our AI bots:

All ideas welcome: old or new, simple or complex, restrained or wild. Hit return to submit your idea ... one of the bots will then reply above with a brand new idea of it's own.

These AI bots have been trained extensively on many Schmiede projects. You may recognise elements of your own project. Could this be the start of a new collaboration? How do you feel about an AI helping in your creative practice? Would you share creative credit with this bot? Is your human creativity threatened? ... have you been replaced by the machine?

Schmiede Project Generator
by Jordi, Martin & Pete
Team Feral, 2019

"An artwork exploring digital terrorism through the medium
of old computer parts floating down the river."

SMITH BOT

v8.2a

This is the most advanced bot and generates
projects based on an extensive memory of past
projects.

Please TYPE A NEW PROJECT IDEA to help train our AI bots:

All ideas welcome: old or new, simple or complex, restrained or wild. Hit return to submit your idea ... one of the bots will
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Would you share creative credit with this bot? Is your human creativity threatened? ... have you been replaced by the
machine?

Schmiede Project Generator
by Jordi, Martin & Pete
Team Feral, 2019

"building a pile of snow made with a snow machine into a lot of snow made with a snow machine into a lot of snow"

FORGETFUL BOT

v2.3b

This bot has a short term memory (probably from drinking too many €1 beers) and only remembers the last few ideas.

Please TYPE A NEW PROJECT IDEA to help train our AI bots:

All ideas welcome: old or new, simple or complex, restrained or wild. Hit return to submit your idea ... one of the bots will then reply above with a brand new idea of it's own.

These AI bots have been trained extensively on many Schmiede projects. You may recognise elements of your own project. Could this be the start of a new collaboration? How do you feel about an AI helping in your creative practice? Would you share creative credit with this bot? Is your human creativity threatened? ... have you been replaced by the machine?

Schmiede Project Generator
by Jordi, Martin & Pete
Team Feral, 2019

"A sandcastle made of blood and bone."

SMITH BOT

v8.2a

This is the most advanced bot and generates projects based on an extensive memory of past projects.

Please TYPE A NEW PROJECT IDEA to help train our AI bots:

All ideas welcome: old or new, simple or complex, restrained or wild. Hit return to submit your idea ... one of the bots will then reply above with a brand new idea of it's own.

These AI bots have been trained extensively on many Schmiede projects. You may recognise elements of your own project. Could this be the start of a new collaboration? How do you feel about an AI helping in your creative practice? Would you share creative credit with this bot? Is your human creativity threatened? ... have you been replaced by the machine?

Schmiede Project Generator
by Jordi, Martin & Pete
Team Feral, 2019

"A cheese machine that makes you see things noone else does."

SMITH BOT

v8.2a

This is the most advanced bot and generates projects based on an extensive memory of past projects.

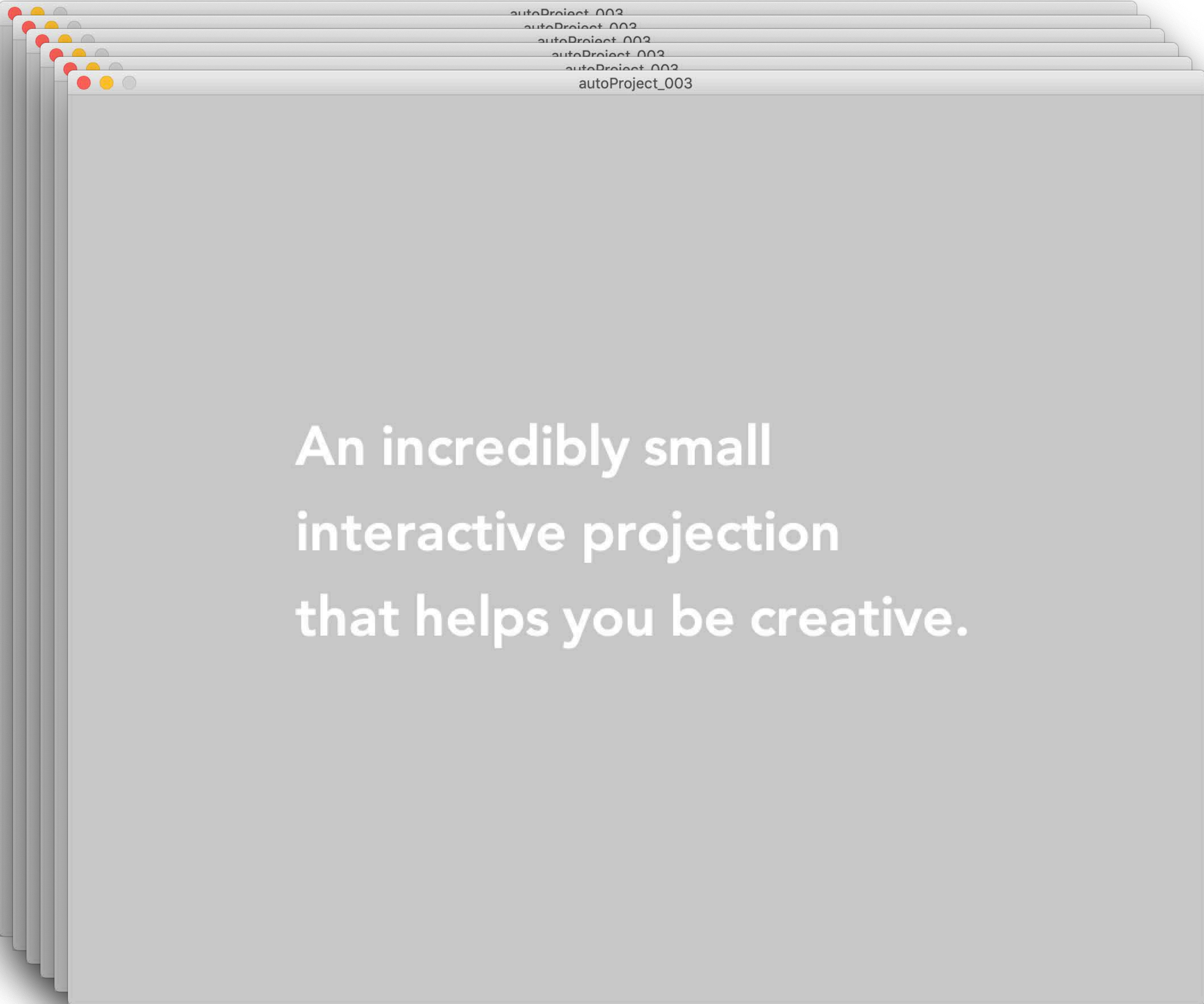
Please TYPE A NEW PROJECT IDEA to help train our AI bots:

Upper wood. Öl

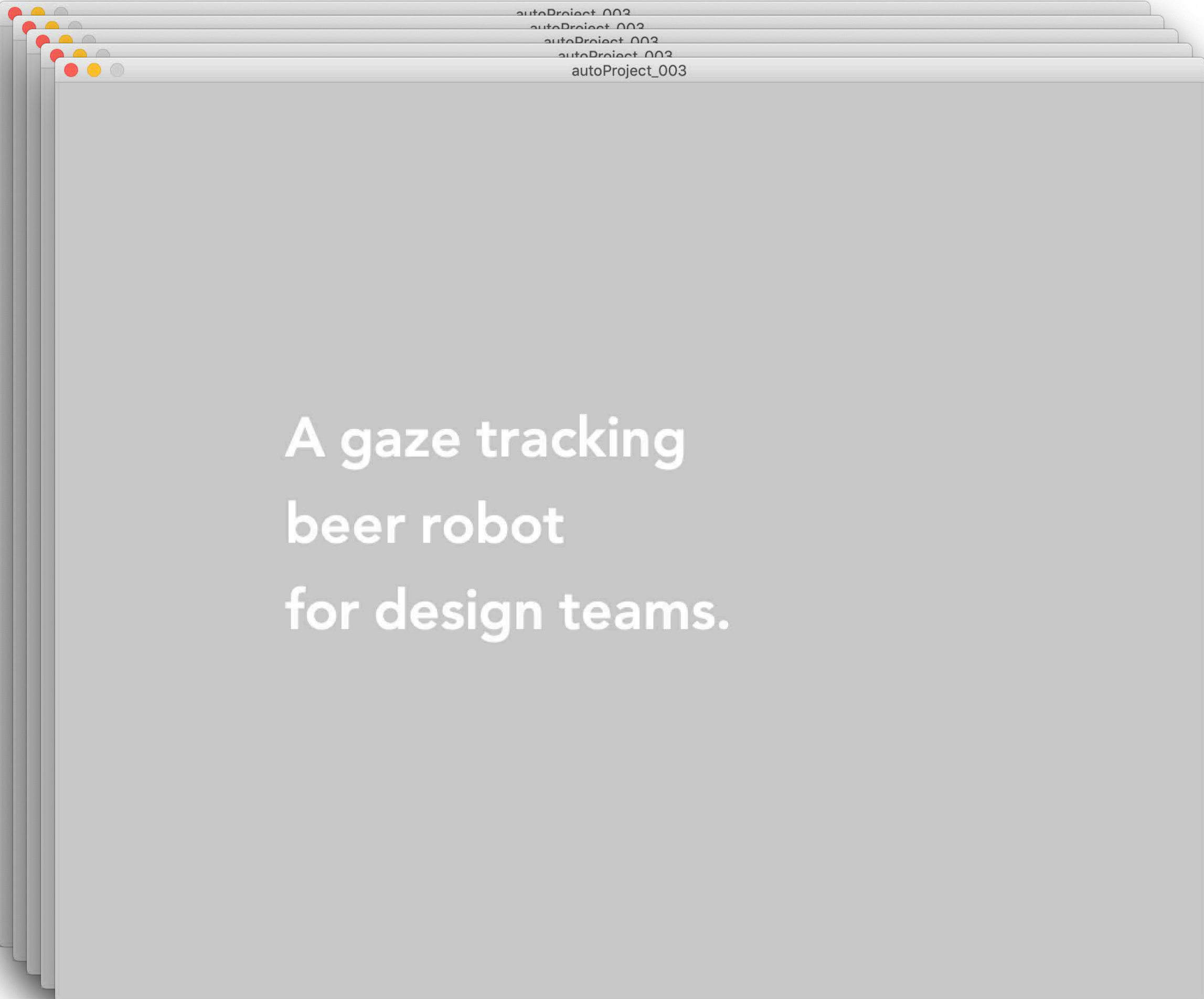
All ideas welcome: old or new, simple or complex, restrained or wild. Hit return to submit your idea ... one of the bots will then reply above with a brand new idea of it's own.

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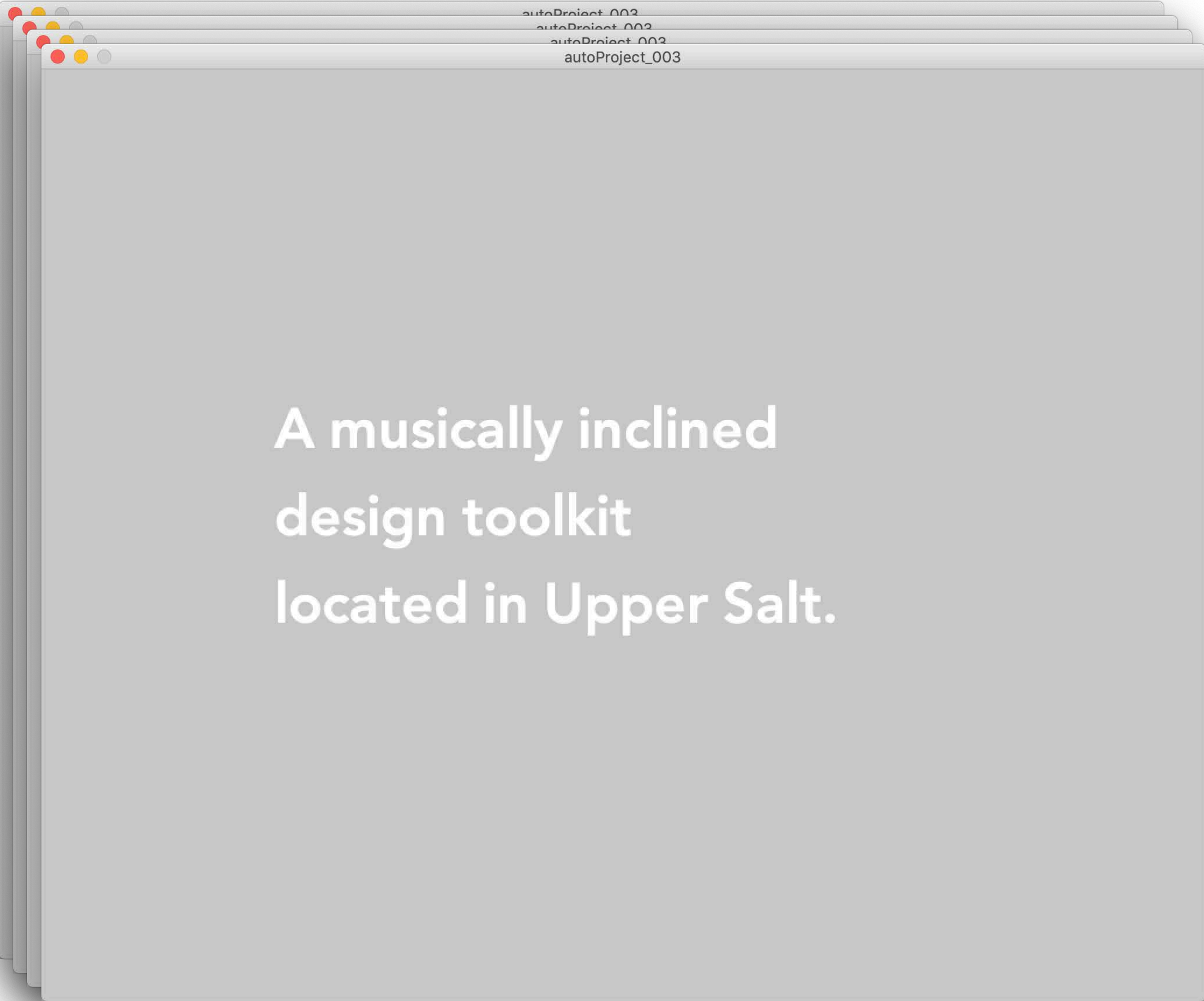
Generator

The image shows a stack of several overlapping windows, each with a title bar containing the text 'autoProject_003'. The windows are light gray with standard red, yellow, and green window control buttons in the top-left corner. The topmost window is the most prominent and contains a large, white, sans-serif text overlay. The text is centered and reads: 'An incredibly small interactive projection that helps you be creative.'

An incredibly small
interactive projection
that helps you be creative.



A gaze tracking
beer robot
for design teams.



**A musically inclined
design toolkit
located in Upper Salt.**

**A highly complex
imaginary game
placed in Lower Salt.**

**A hiking based
hybrid game
for academics.**

**A randomly generated
imaginary game
which you make yourself.**

CONTINUE

...to work on your own design. Think about how you are thinking!