Dane Petersen

OUTSIDE IN

Evoking the Natural World in Indoor Spaces

April 27, 2010

HCI/d Master's Capstone

Advised by Erik Stolterman

FOR DISTANT
VIEWING
SEE COAST MANUFACTURING CO.,
FAIRHOPE, ALA. 36532 U.S.A.

MOTIVATIONS

DAKINE

MySQL
Perl
JAVA
EAL &
OG FOOD

MOTIVATIONS

"I work indoors and it blows. Big time."
- Cathy

WHY IXD?

WHY IXD?

WHY IXD?

MY PROPOSAL

Channel the tenets of ensoulment and slow technology, to evoke a sense of the outside world in indoor spaces.

OUTLINE

OUTLINE

Lenses of Meaning

OUTLINE

Lenses of Meaning

Outside and Inside

OUTLINE

Lenses of Meaning

Outside and Inside

Design Concepts in Light

Why are the outdoors meaningful to us?

Why are the outdoors meaningful to us?

LENSES OF MEANING

LENSES OF MEANING

Sociocultural

LENSES OF MEANING

Sociocultural

Biological

LENSES OF MEANING

Sociocultural

Biological

Perceptual

LENSES OF MEANING

Sociocultural

Biological

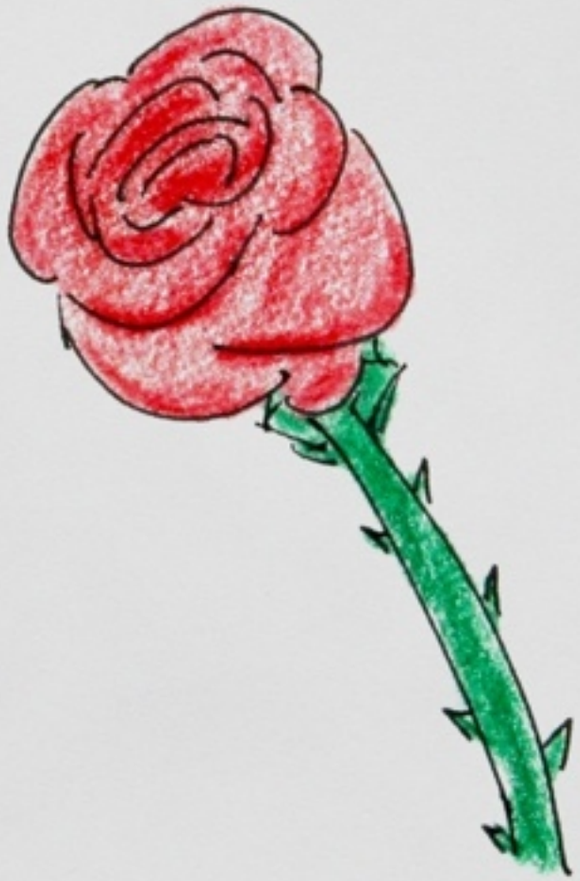
Perceptual

Temporal

LENSES OF MEANING

Sociocultural
Biological
Perceptual
Temporal
Spatial

THE SOCIOCULTURAL LENS



S.F.
POLICE
DO NOT

THE BIOLOGICAL LENS

THE BIOLOGICAL LENS

THE BIOLOGICAL LENS

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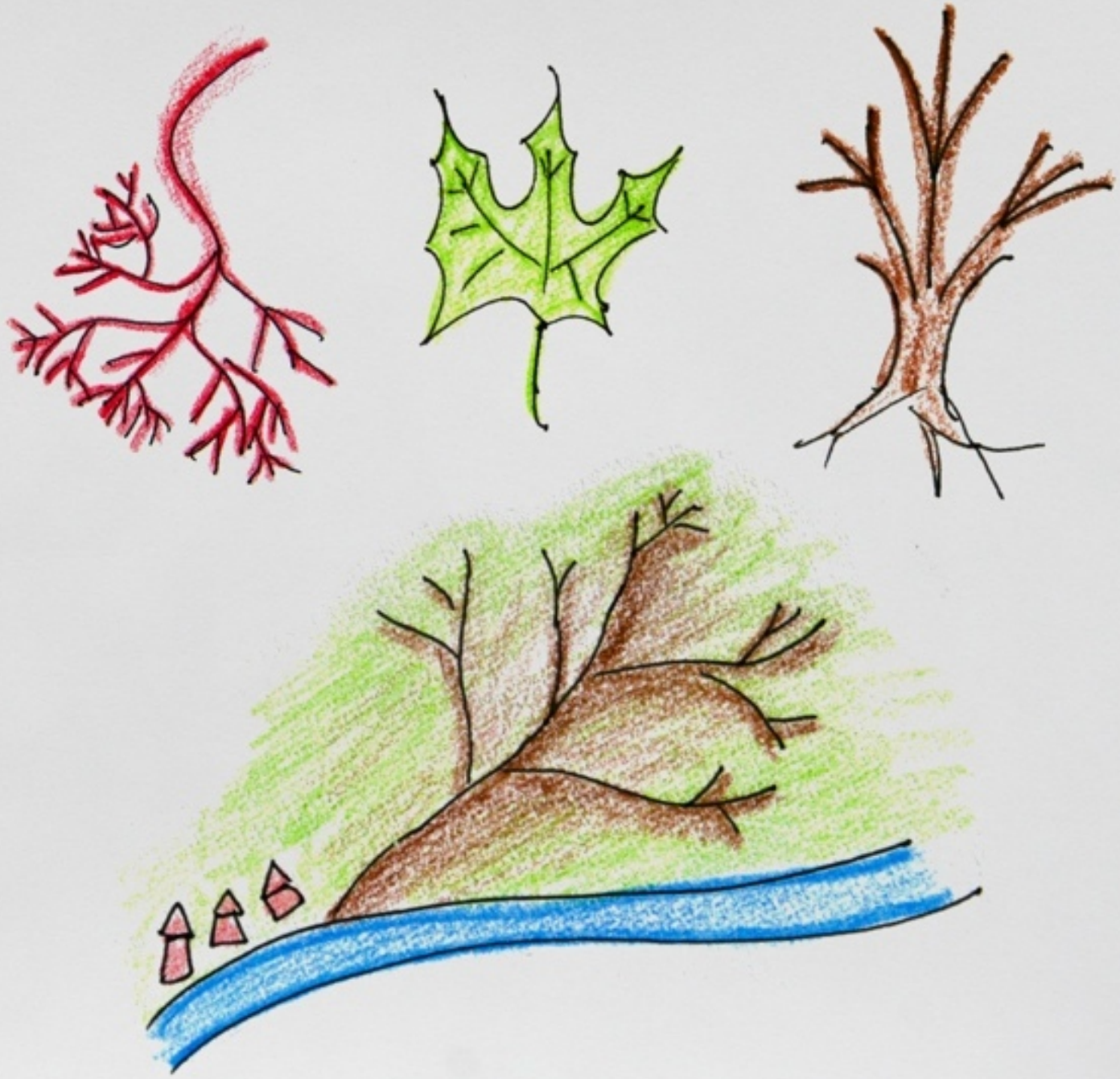

THE PERCEPTUAL LENS

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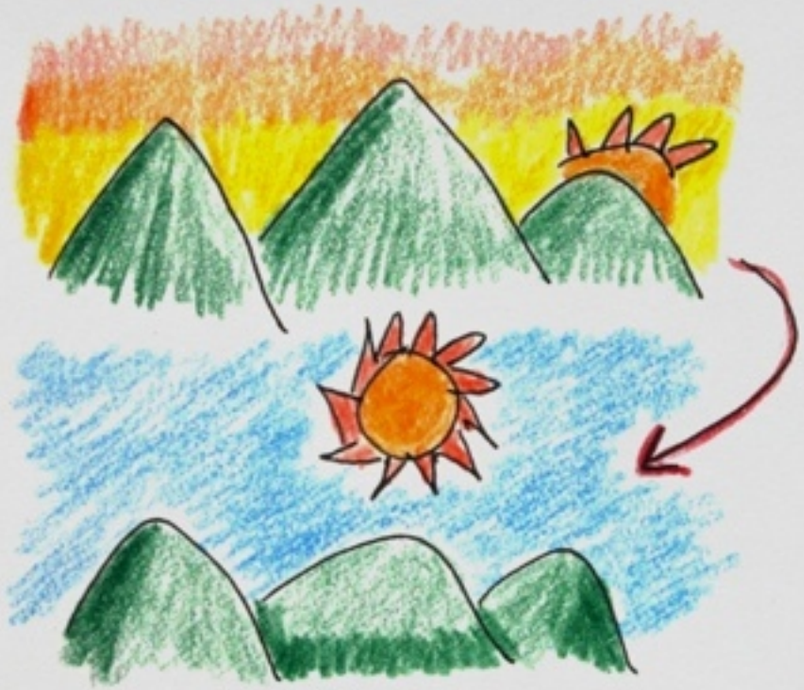

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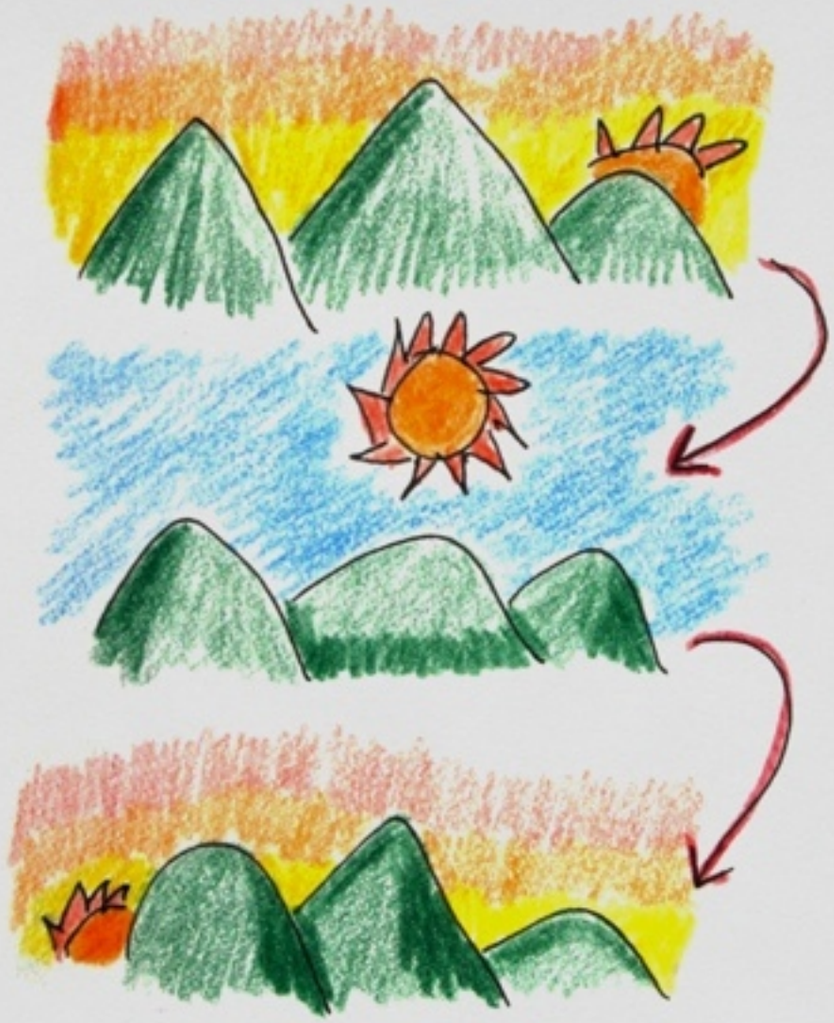
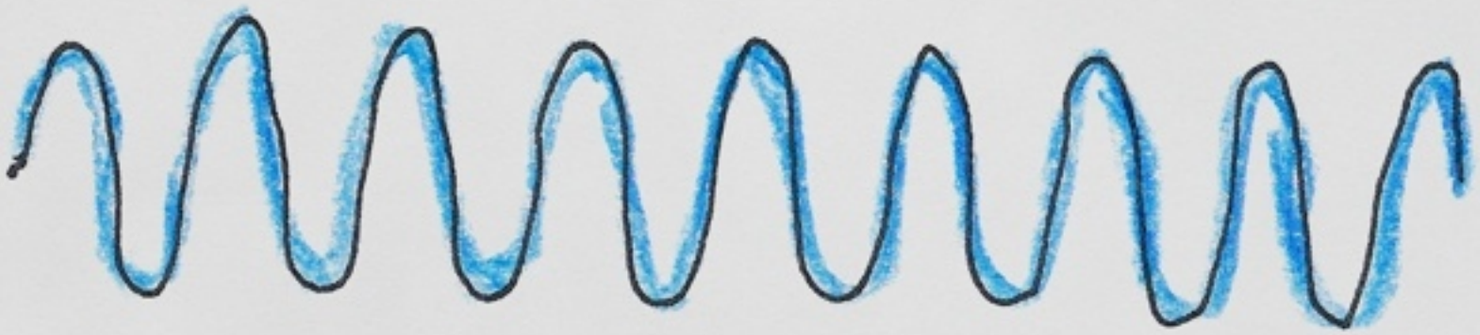


THE PERCEPTUAL LENS

THE TEMPORAL LENS



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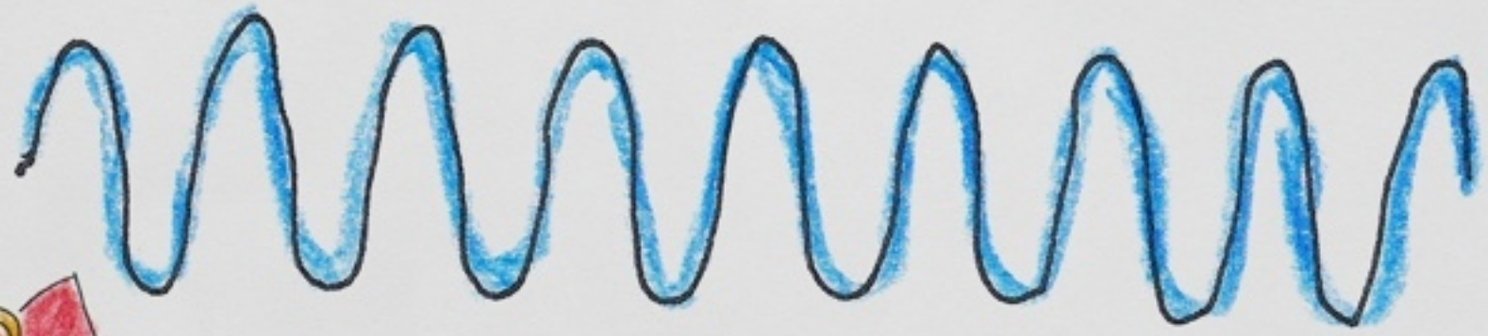

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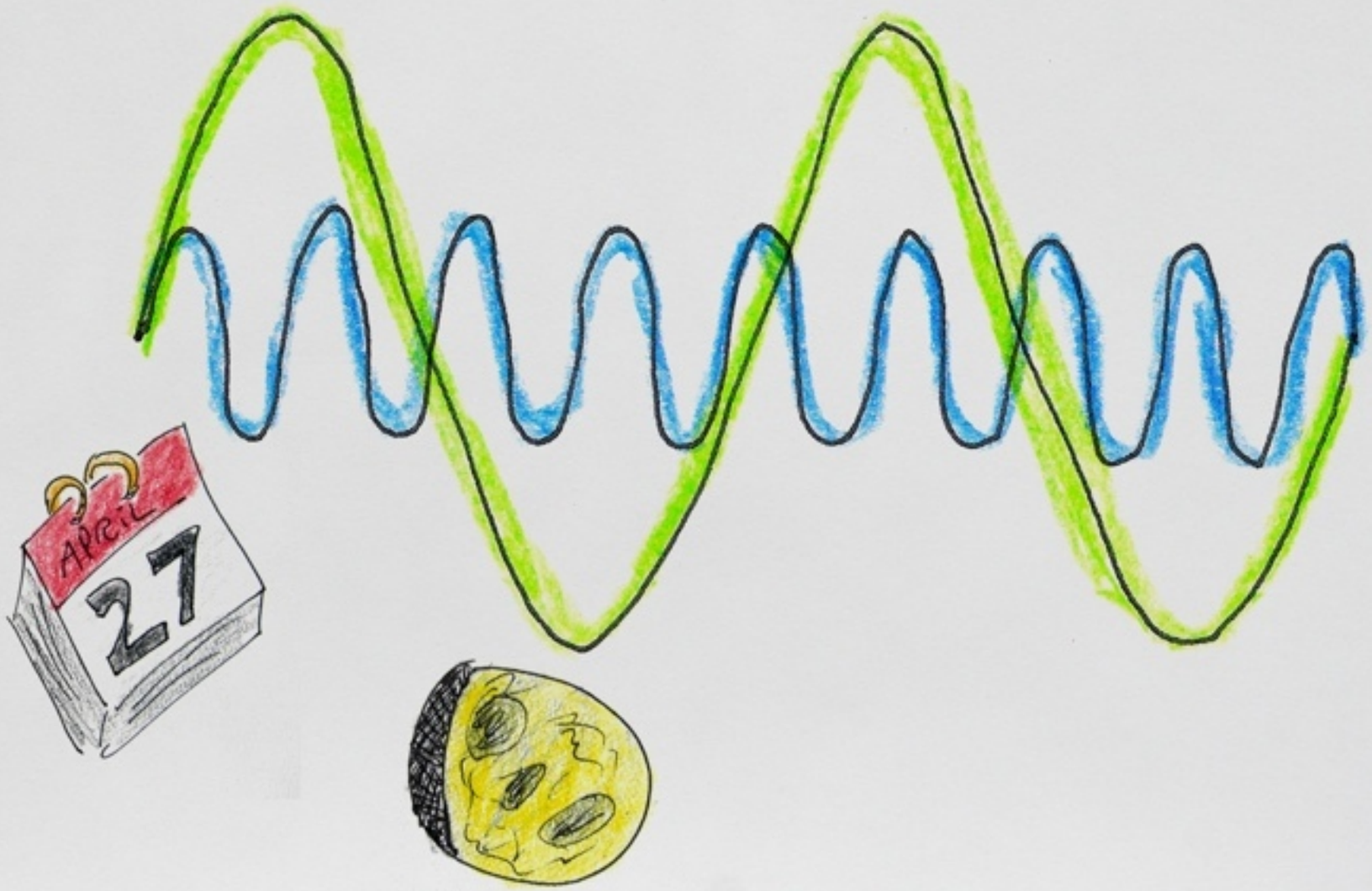

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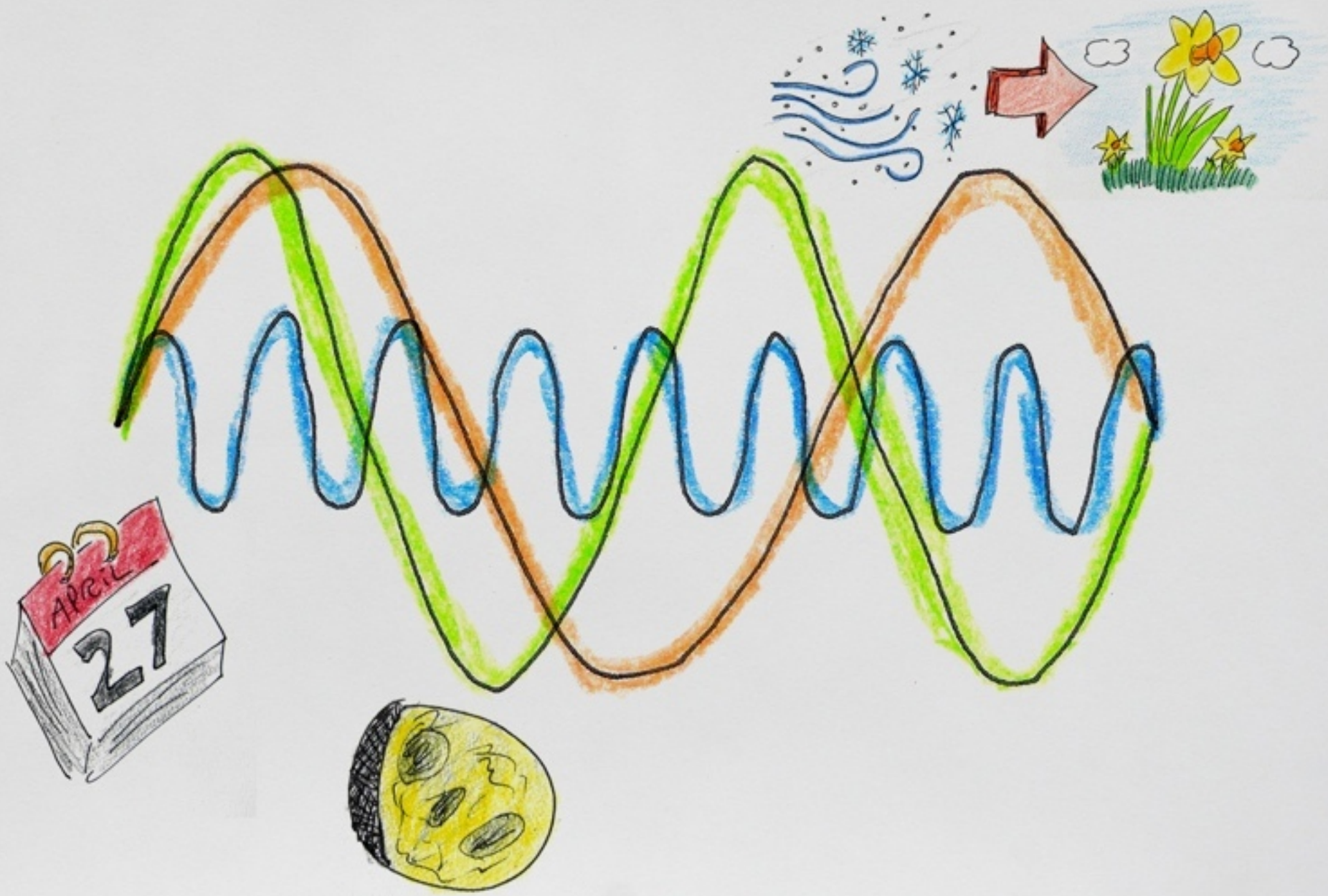

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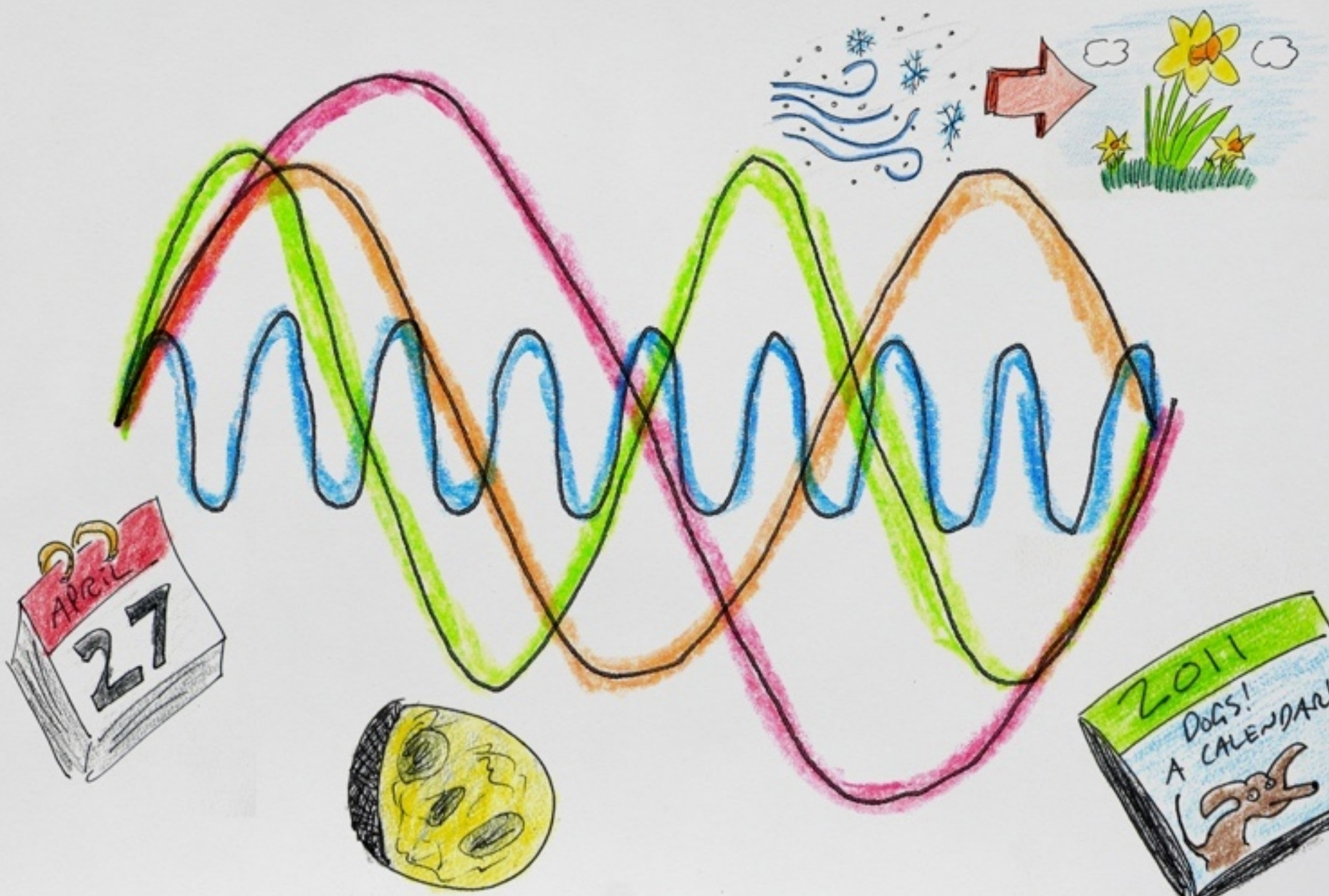

THE SPATIAL LENS

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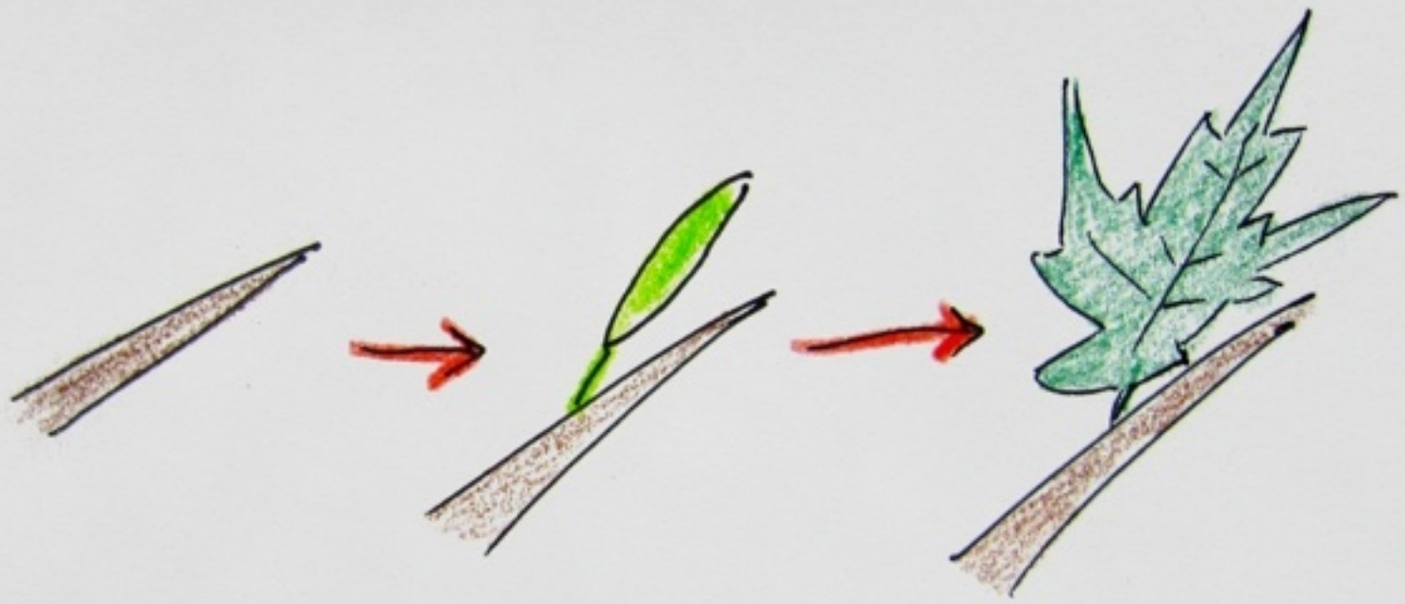

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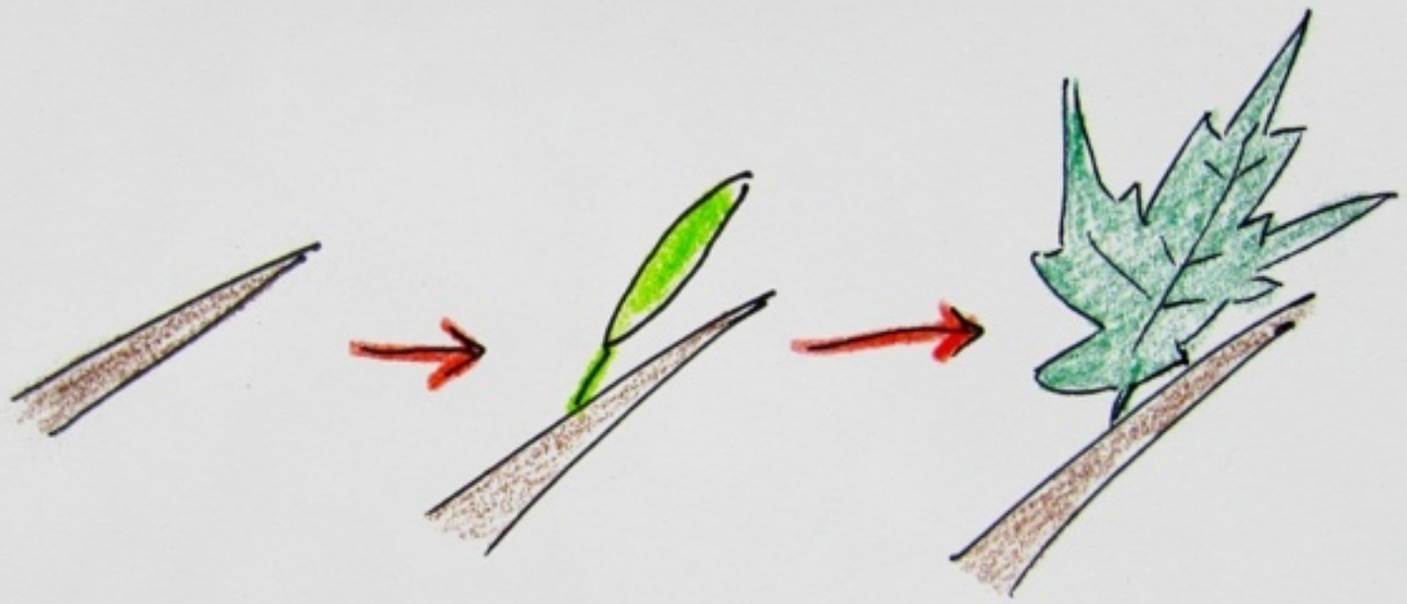

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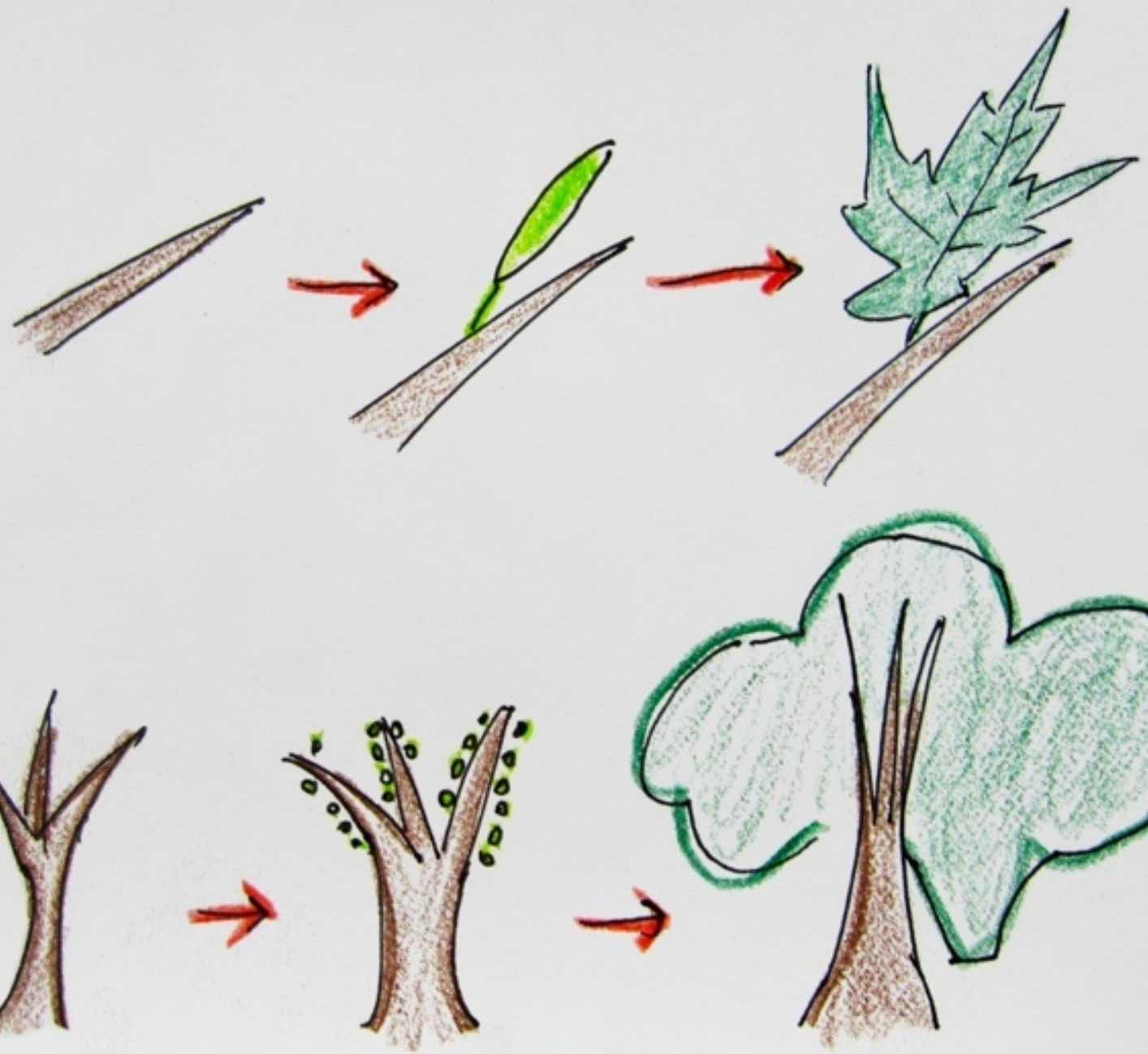

THE CRIME OF THE INDOORS

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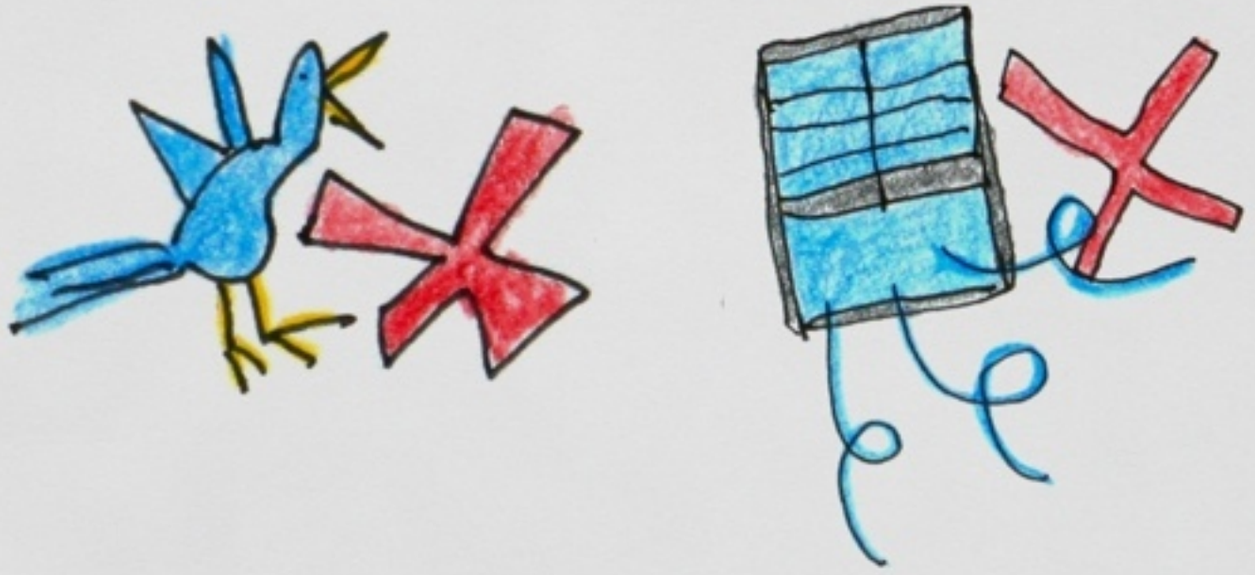

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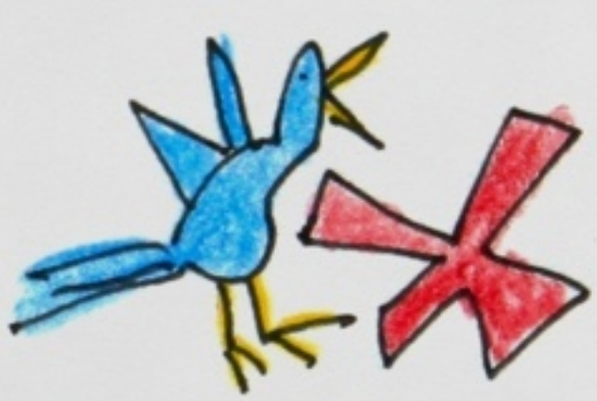
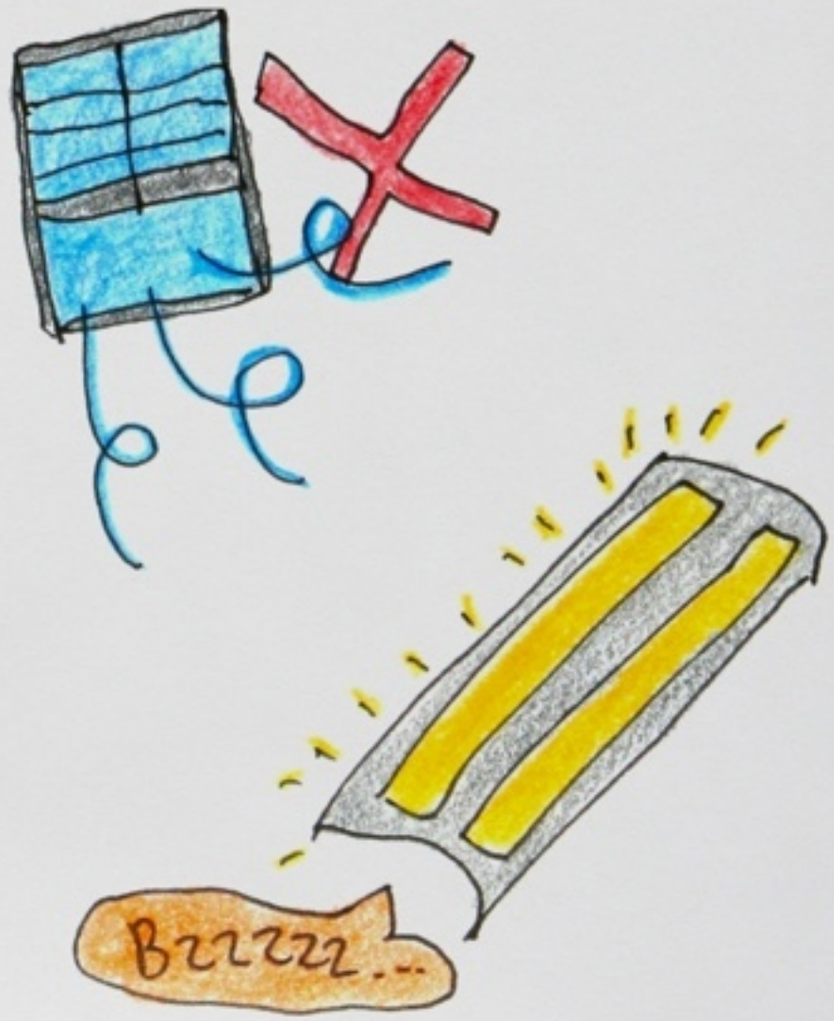
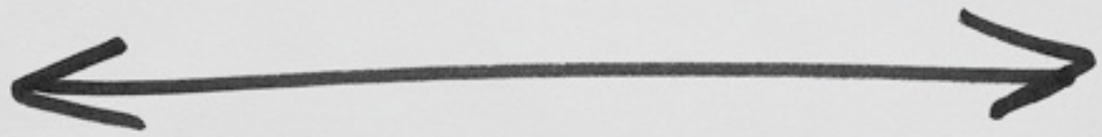




What are the outdoors?
What is nature?

What are the outdoors?
What is nature?

OUTSIDE AND INSIDE



Natural

Built ⟷ Natural

Built ⟷ Natural

trees

Built ⟷ Natural

computers

trees

cruise ship

Built ⟷ Natural

computers

trees

cruise ship

disco ball

Built ⟷ Natural

computers

trees

cruise ship

disco ball

Built ⟷ Natural

computers

florescent lights

trees

cruise ship

disco ball

Built ⟷ Natural

computers

florescent lights

natural light lamps

trees

cruise ship

disco ball

climbing hold

Built ⟷ Natural

computers

florescent lights

natural light lamps

trees

cruise ship

disco ball

climbing hold

canoe

Built ⟷ Natural

computers

florescent lights

natural light lamps

trees

cruise ship

disco ball

climbing hold

canoe

Built ⟷ Natural

computers

florescent lights

natural light lamps

statues

trees

cruise ship

disco ball

climbing hold

canoe

Built ⟷ Natural

computers

florescent lights

natural light lamps

statues

house plants

trees

cruise ship

disco ball

climbing hold

canoe

squirrel

Built ⟷ Natural

computers

florescent lights

natural light lamps

statues

house plants

trees

pirates

cruise ship

disco ball

climbing hold

canoe

squirrel

Built

Natural

computers

florescent lights

natural light lamps

statues

house plants

trees

ninjas

pirates

cruise ship

disco ball

climbing hold

canoe

squirrel

Built ⟷ Natural

computers

florescent lights

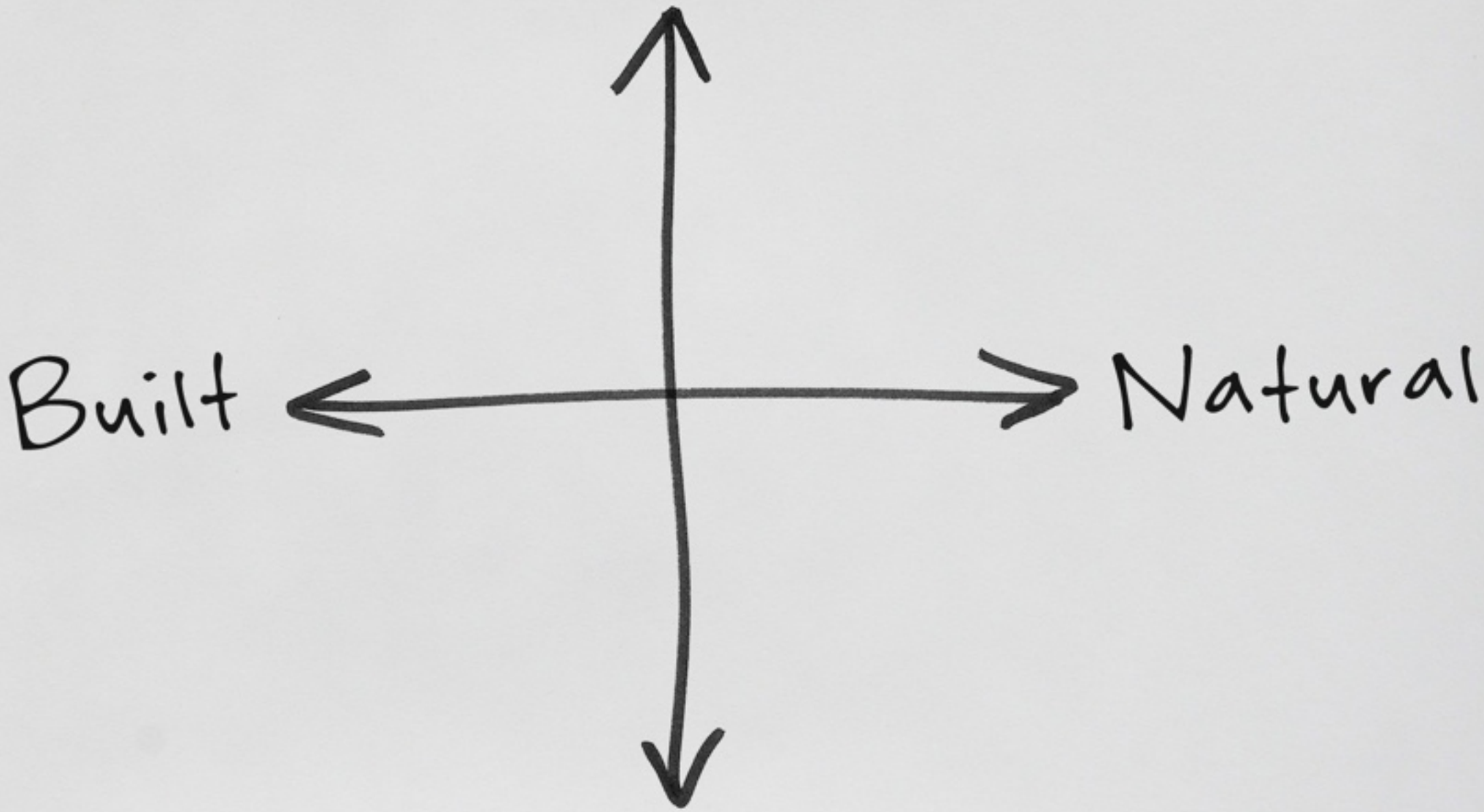
natural light lamps

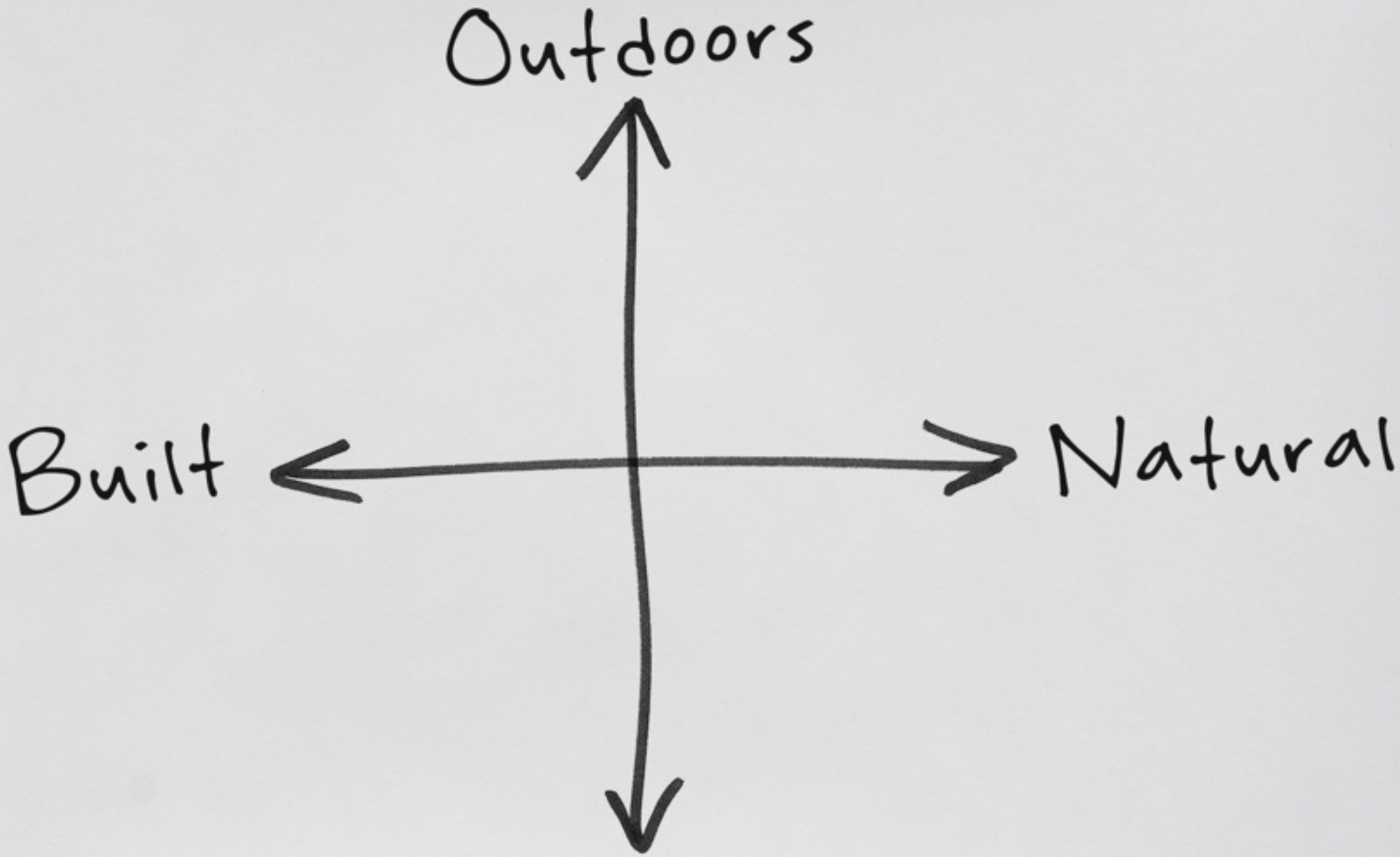
statues

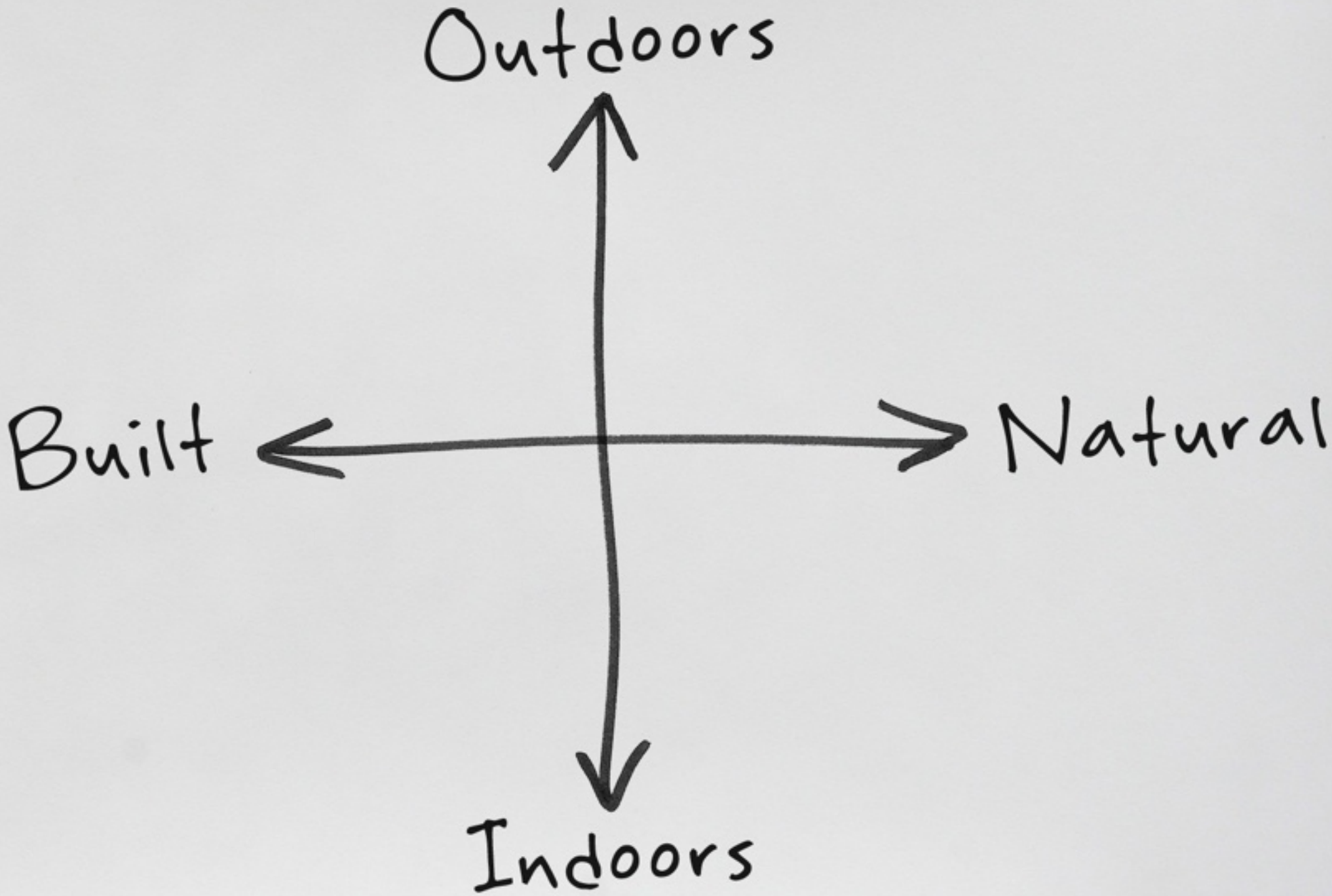
house plants

trees

Built ⟷ Natural


Built
Natural


Outdoors
Built
Natural


Outdoors
Built
Natural
Indoors

Outdoors

wilderness

Built

Natural

Indoors

Outdoors

wilderness

Built

Natural

wells library

Indoors

Outdoors

wilderness

Built

Natural

wells
library

Indoors

cave

tent

Outdoors

wilderness

Built

Natural

wells
library

Indoors

cave

tent

Outdoors

wilderness

national park

Built

Natural

wells library

Indoors

cave

tent

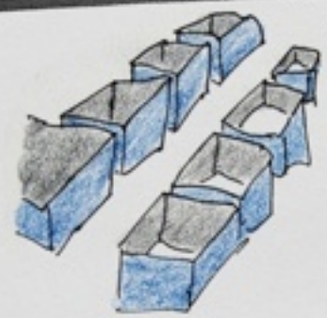
Outdoors

wilderness

national park

Built

Natural



cubicle

wells library

Indoors

cave

tent

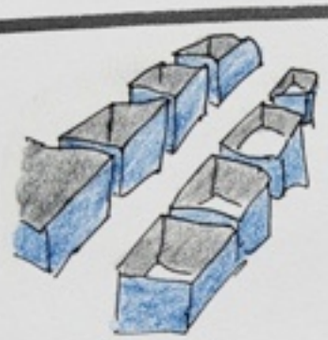
Outdoors

wilderness

national park

Built

Natural



cubicle

greenhouse

wells library

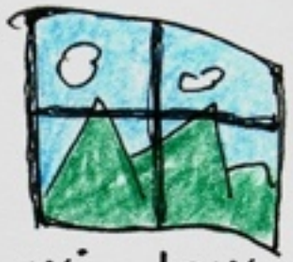
Indoors

cave

tent

Outdoors

wilderness

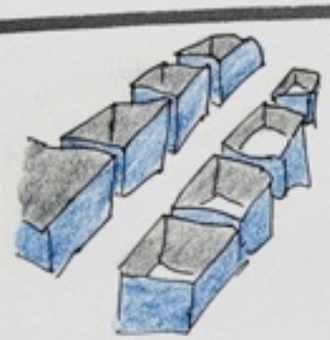


window

national park

Built

Natural



cubicle

greenhouse

wells library

Indoors

cave

Outdoors

tent

wilderness

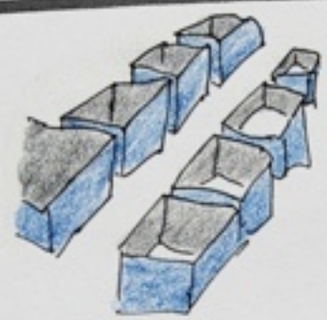
rainy roof

window

national park

Built

Natural



cubicle

greenhouse

wells library

Indoors

cave

Outdoors

tent

rainy roof

window

national park

wilderness

Built

Natural

cubicle

greenhouse

wells library

cave

Indoors

OPPORTUNITY SPACE

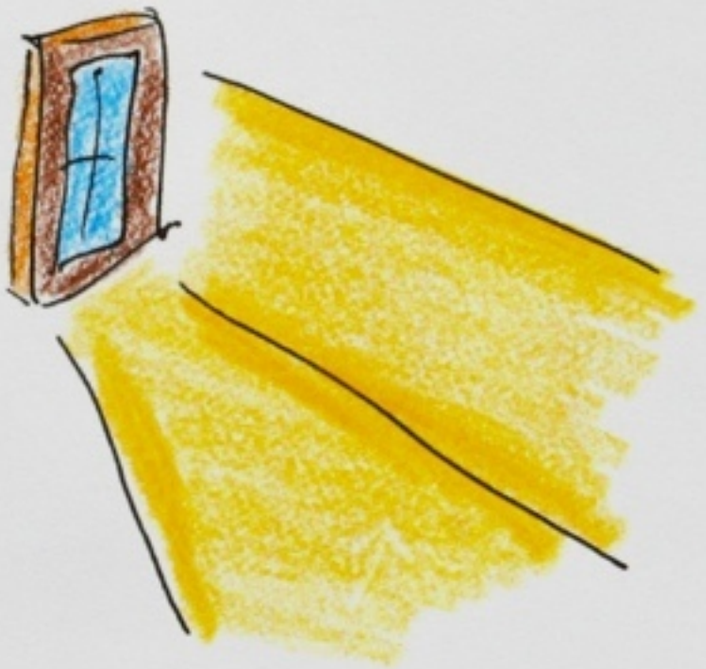
THE CHALLENGE

Design a system that dissolves the boundary
between the outdoors and indoors,
and evokes a sense of the natural world.

BUT HOW?

BUT HOW?

"Basically, the technology you need is called a WINDOW." - Bob



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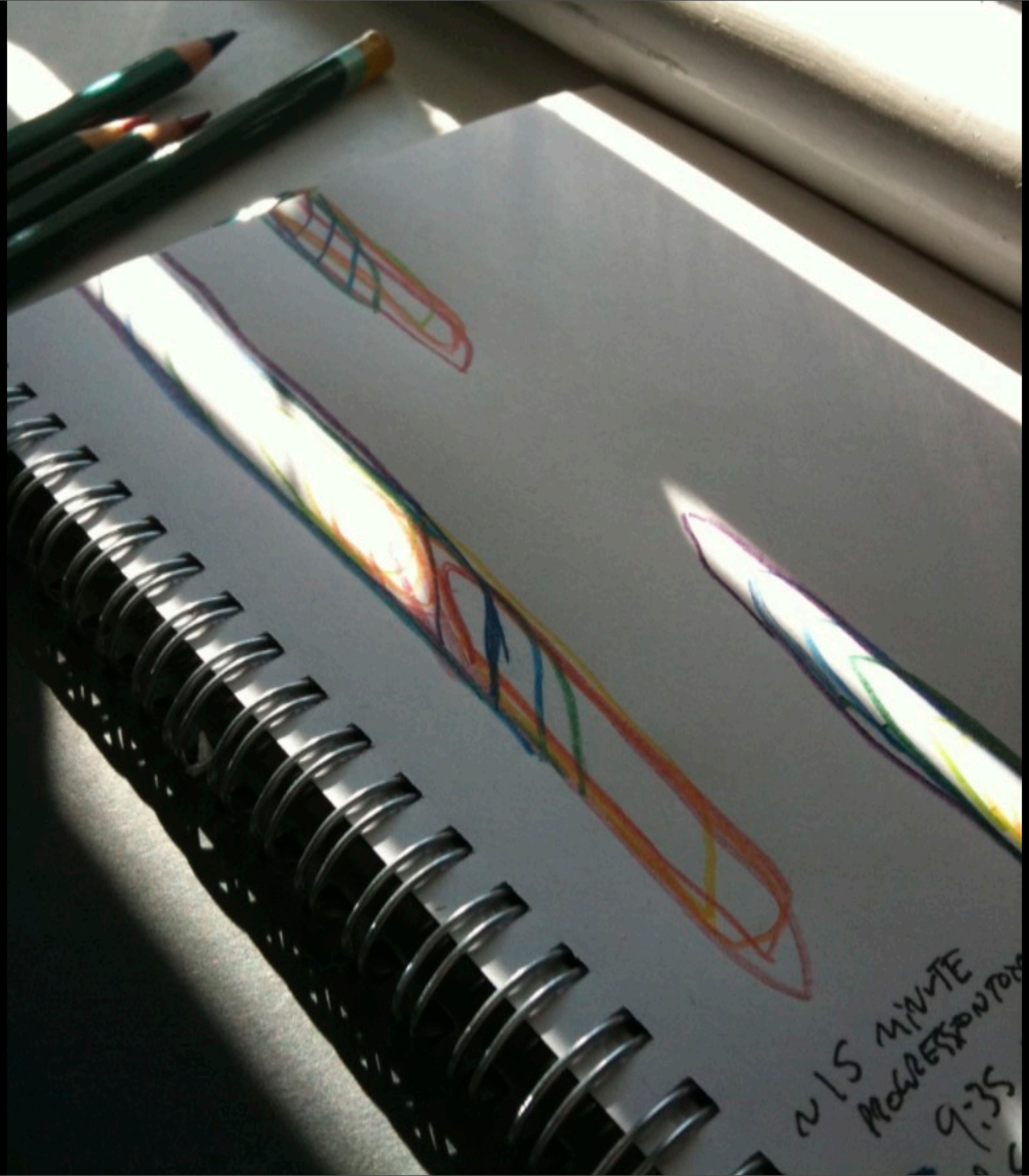
YEA


~15 MINUTE
9:35

10:45 AM, MARCH 4TH

10:47 AM

10:48 AM

10:50 AM

CONCEPTS IN LIGHT

CONCEPTS IN LIGHT

Permeable Ceiling

CONCEPTS IN LIGHT

Permeable Ceiling

Fiber Optic Floor

CONCEPTS IN LIGHT

Permeable Ceiling

Fiber Optic Floor

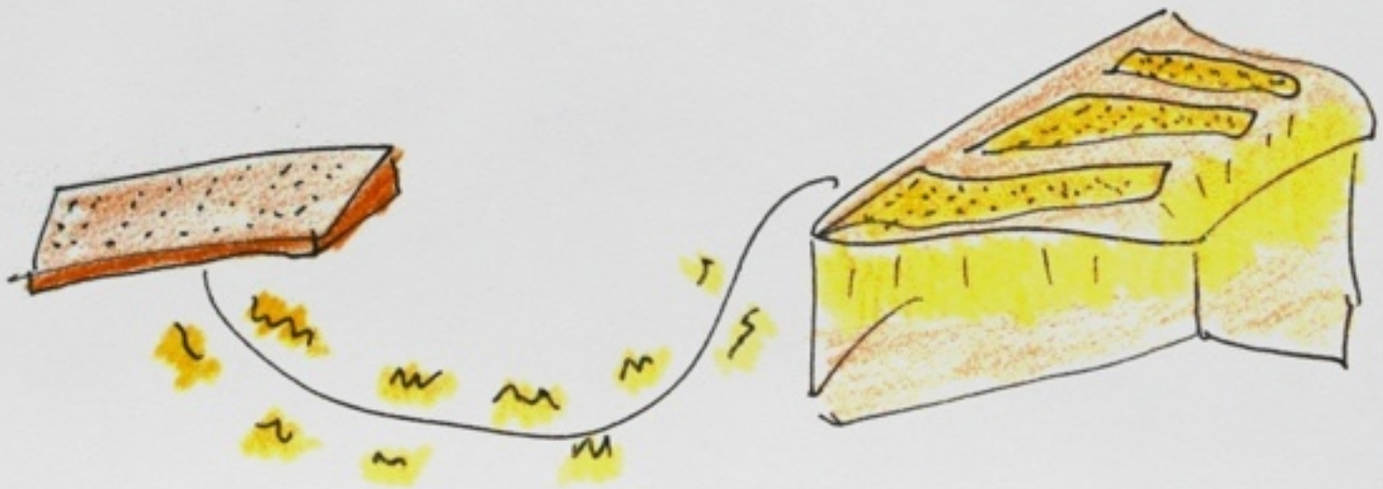
ChronoCube

PERMEABLE CEILING

PERMEABLE CEILING

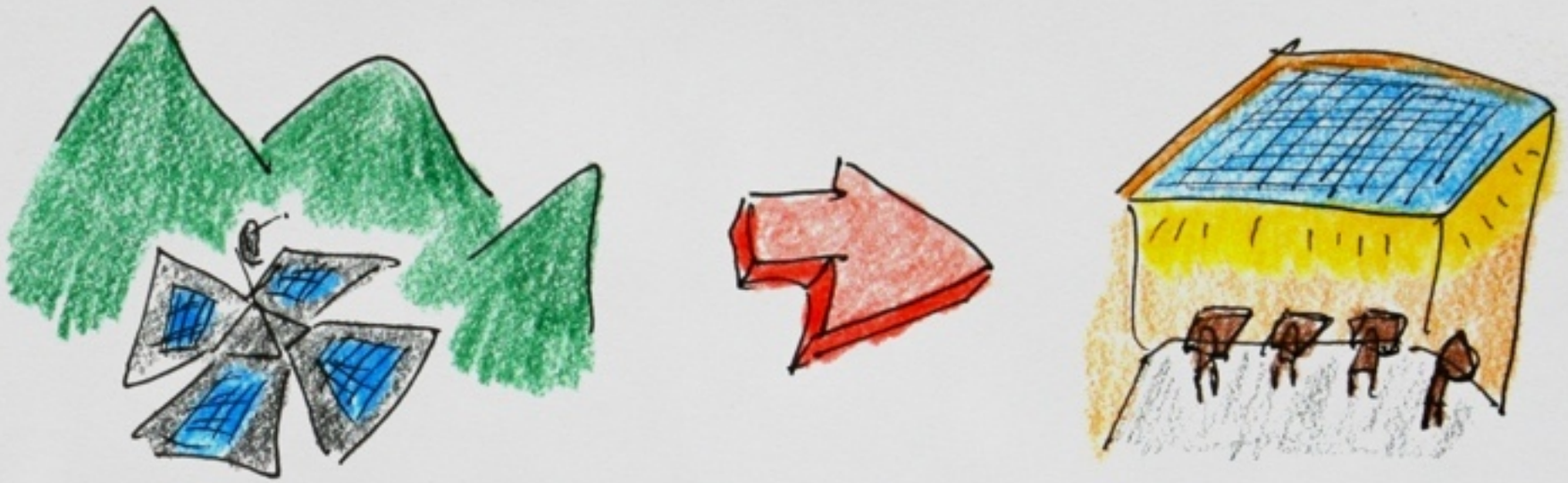
PERMEABLE CEILING

PERMEABLE CEILING



PERMEABLE CEILING

PERMEABLE CEILING



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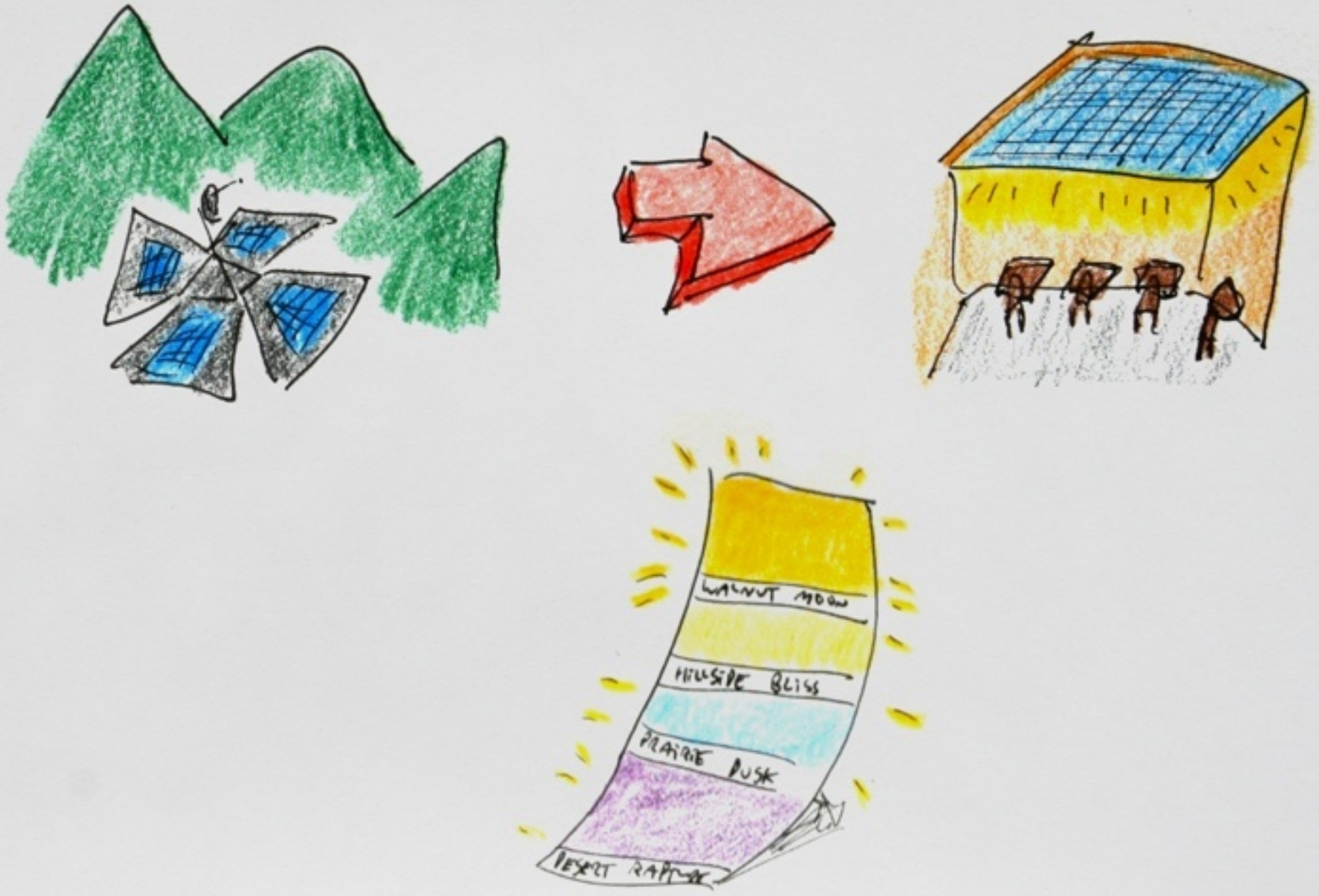
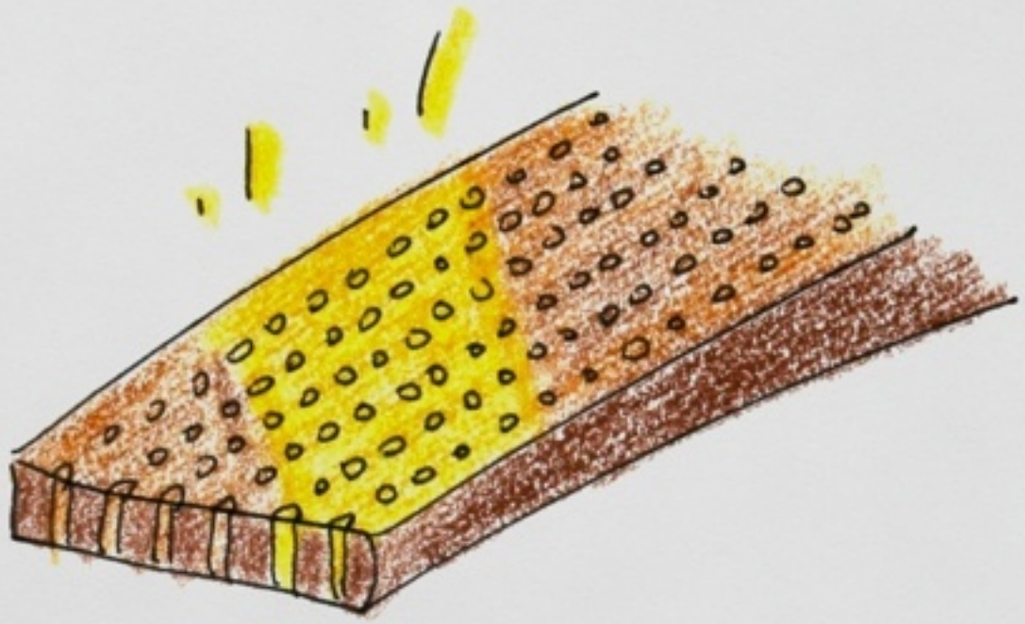


PERMEABLE CEILING

PERMEABLE CEILING

*subconscious effect of daylight, copyright © 2008 daniel rybakken

FIBER OPTIC FLOOR



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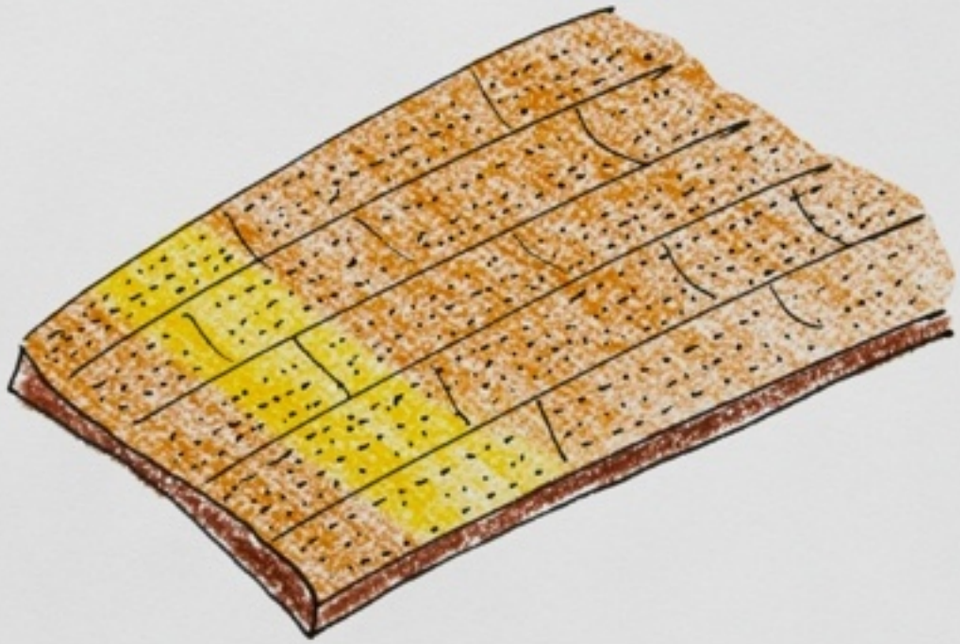

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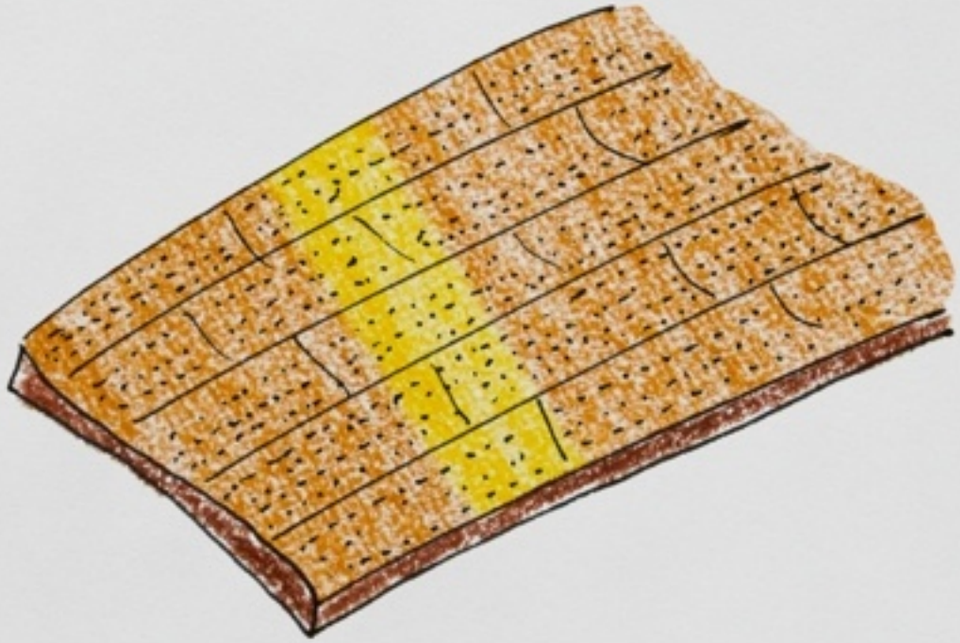

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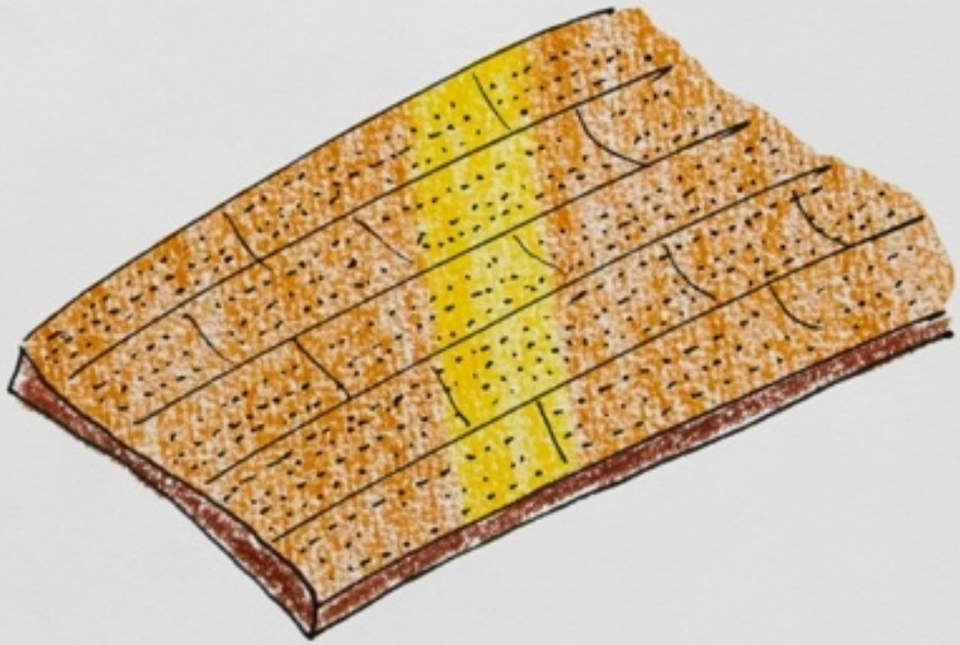
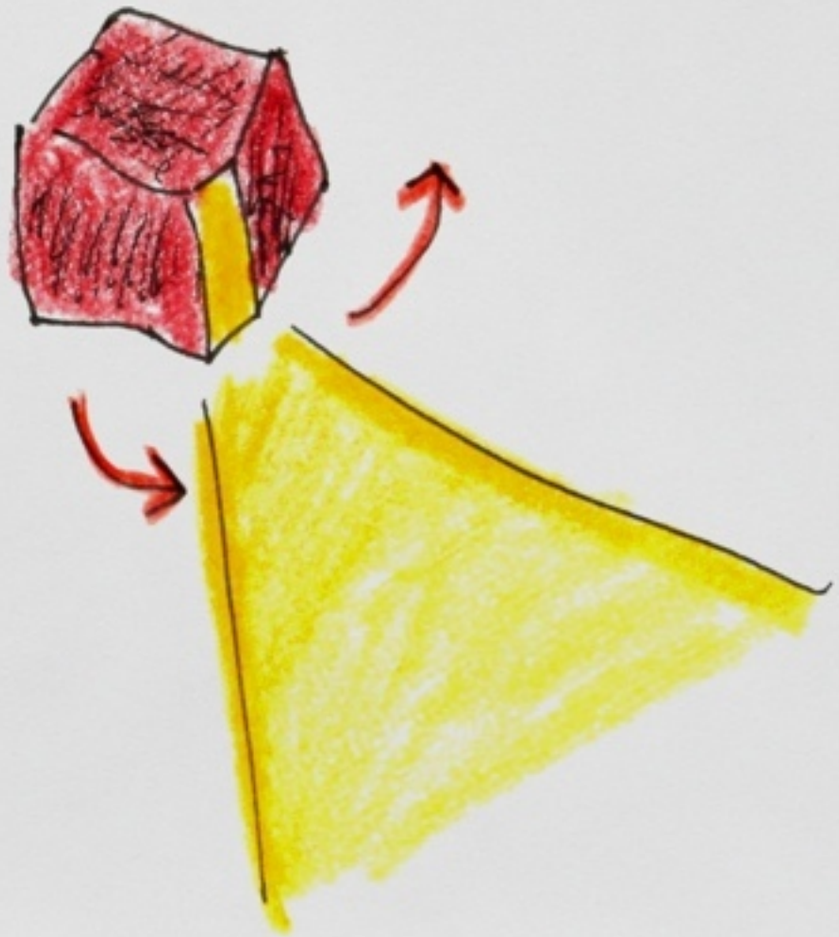


THE CHRONOCUBE



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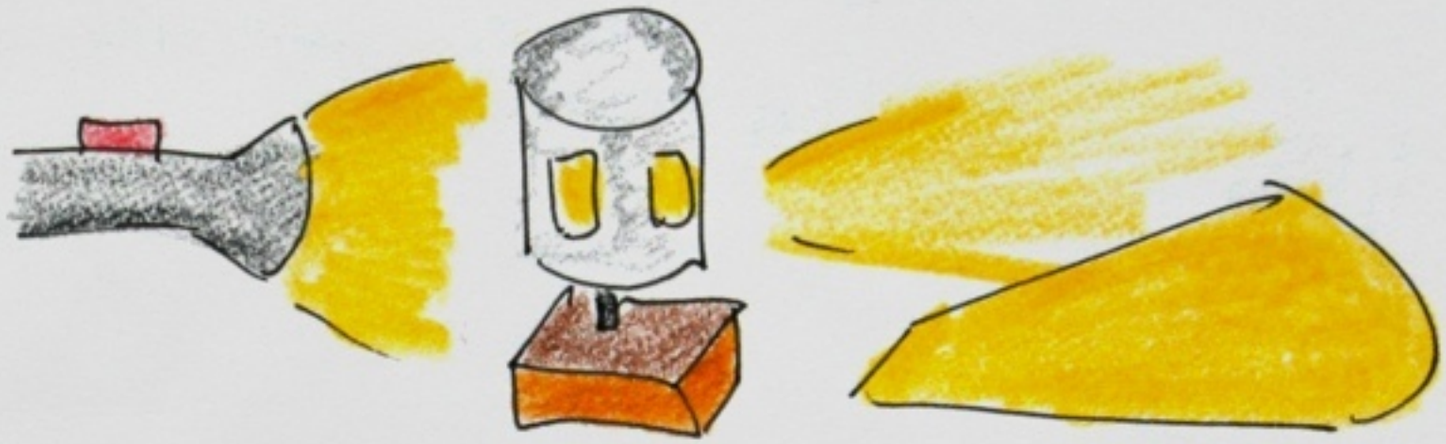

EMPLOYEE
OF THE
YEAR
the office
TM & © Universal Network Television LLC

EMPLOYEE
OF THE
YEAR
the office

EMPLOYEE
OF THE
YEAR
the office
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BEYOND THE OUTDOORS

IN SUMMARY

IN SUMMARY

IN SUMMARY

IN SUMMARY

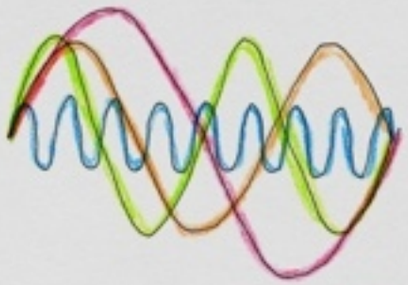
IN SUMMARY

IN SUMMARY

IN SUMMARY

IN SUMMARY

IN SUMMARY



IN SUMMARY

IN SUMMARY

IN SUMMARY

THANK YOU.

Erik, Lorelei, Matt, Burr, Eli, Shaowen,
Drew, Heiko, Casey, Yujia, James, Yuebo,
Kate, Chad, Rachel, Jeff, Emily, Lynn, Geoff,
Binaebi, Linda, Jake, Ben, Marty.
And the entire HCI/d Cohort.

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