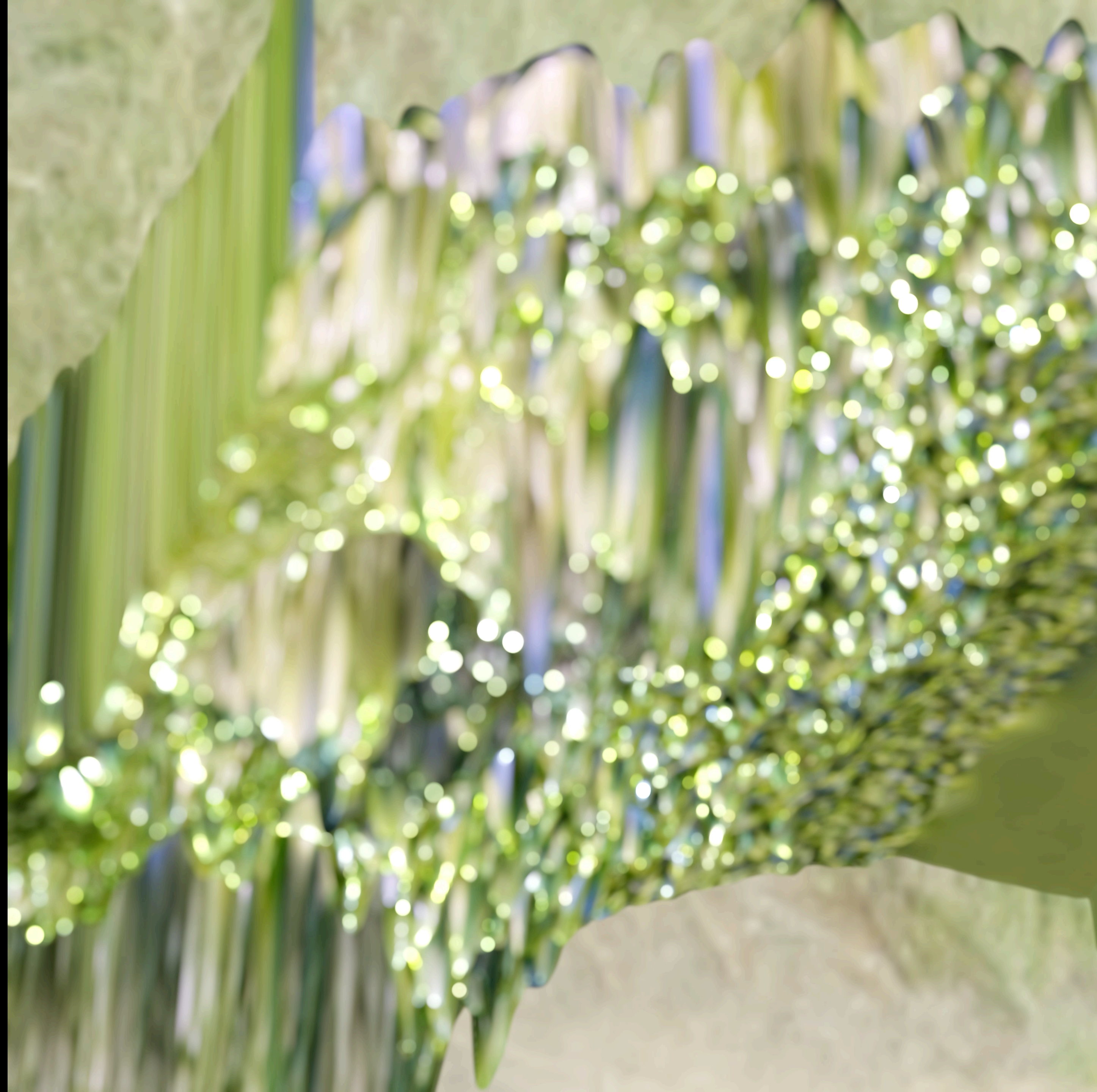
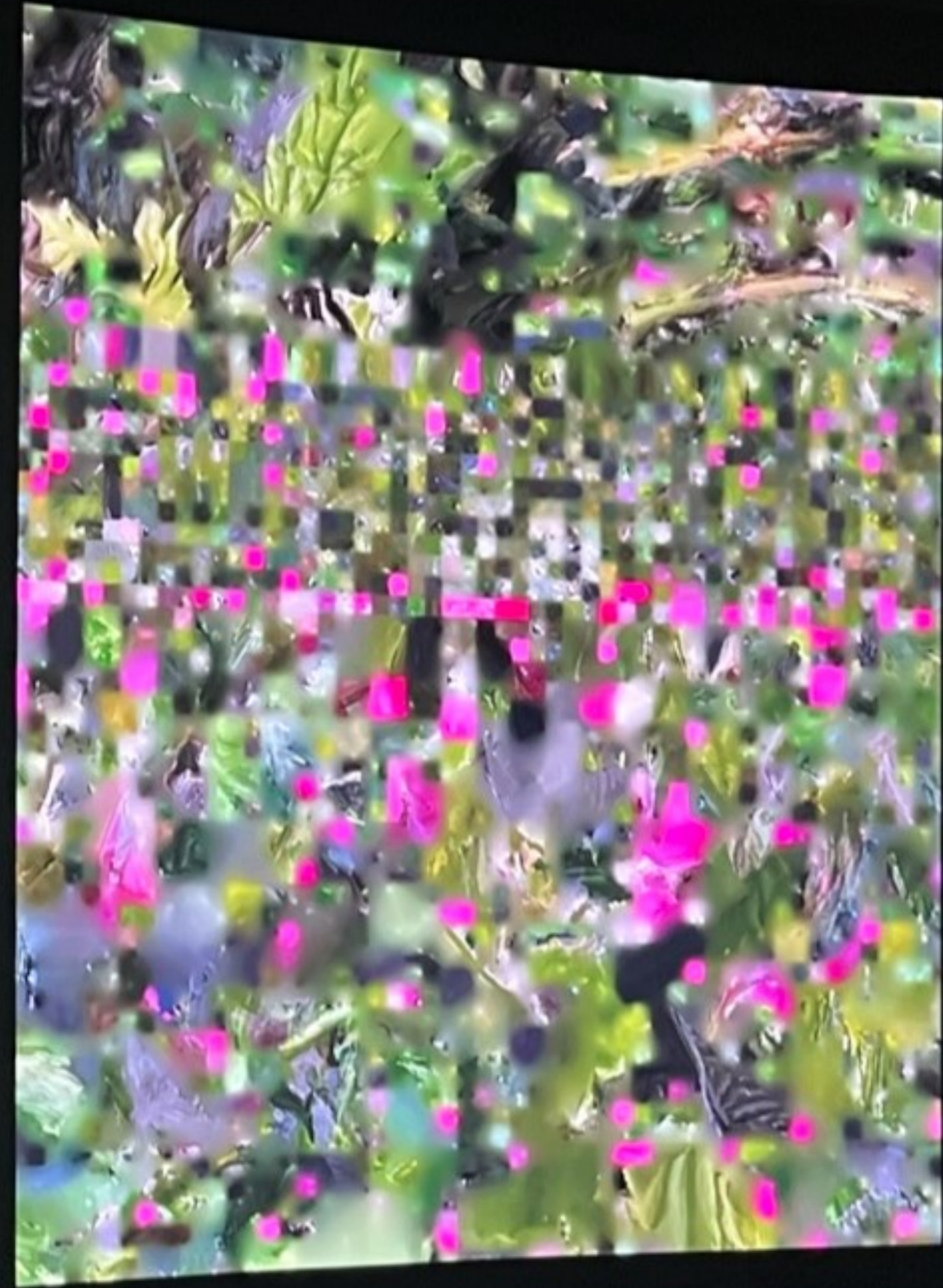


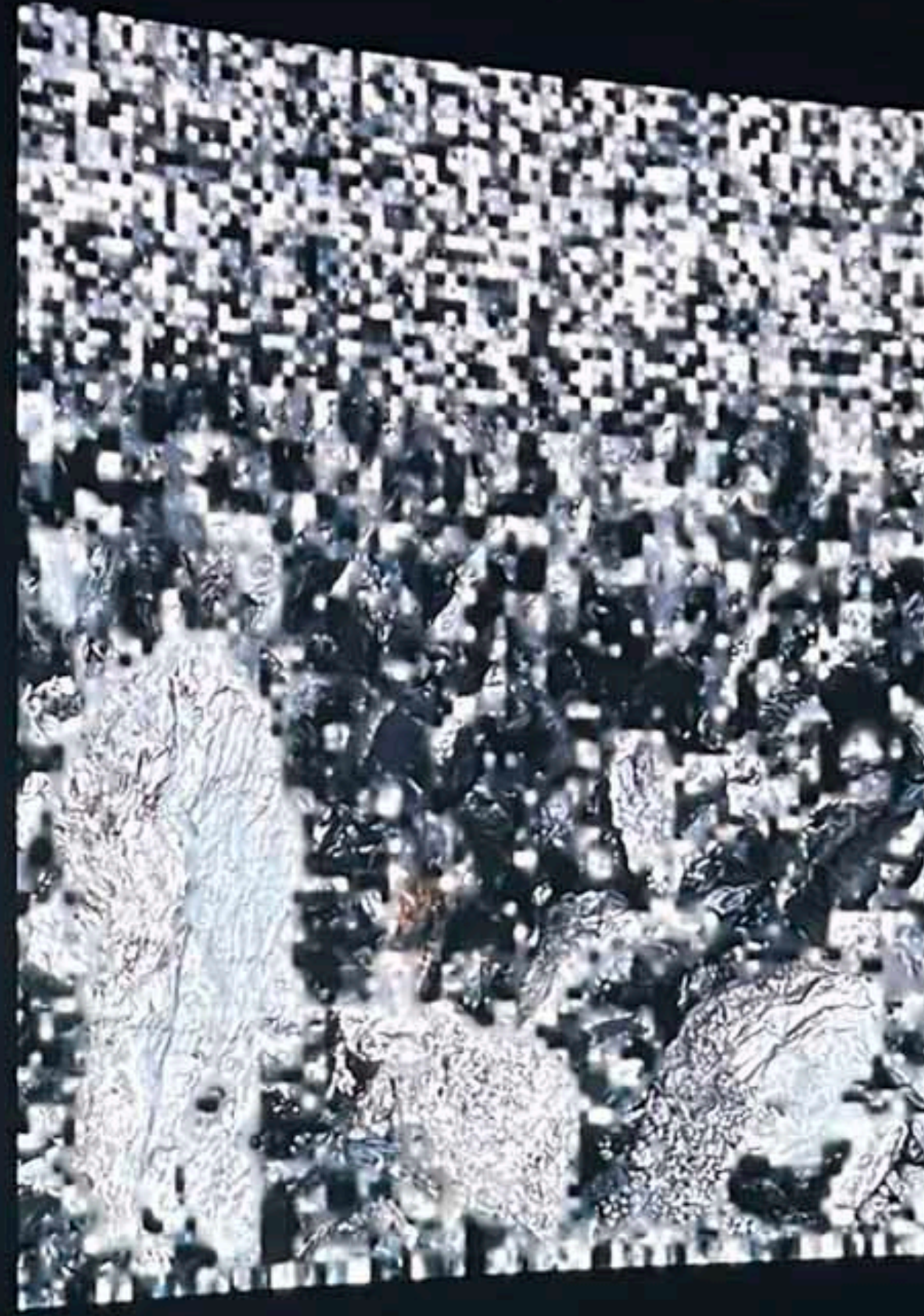
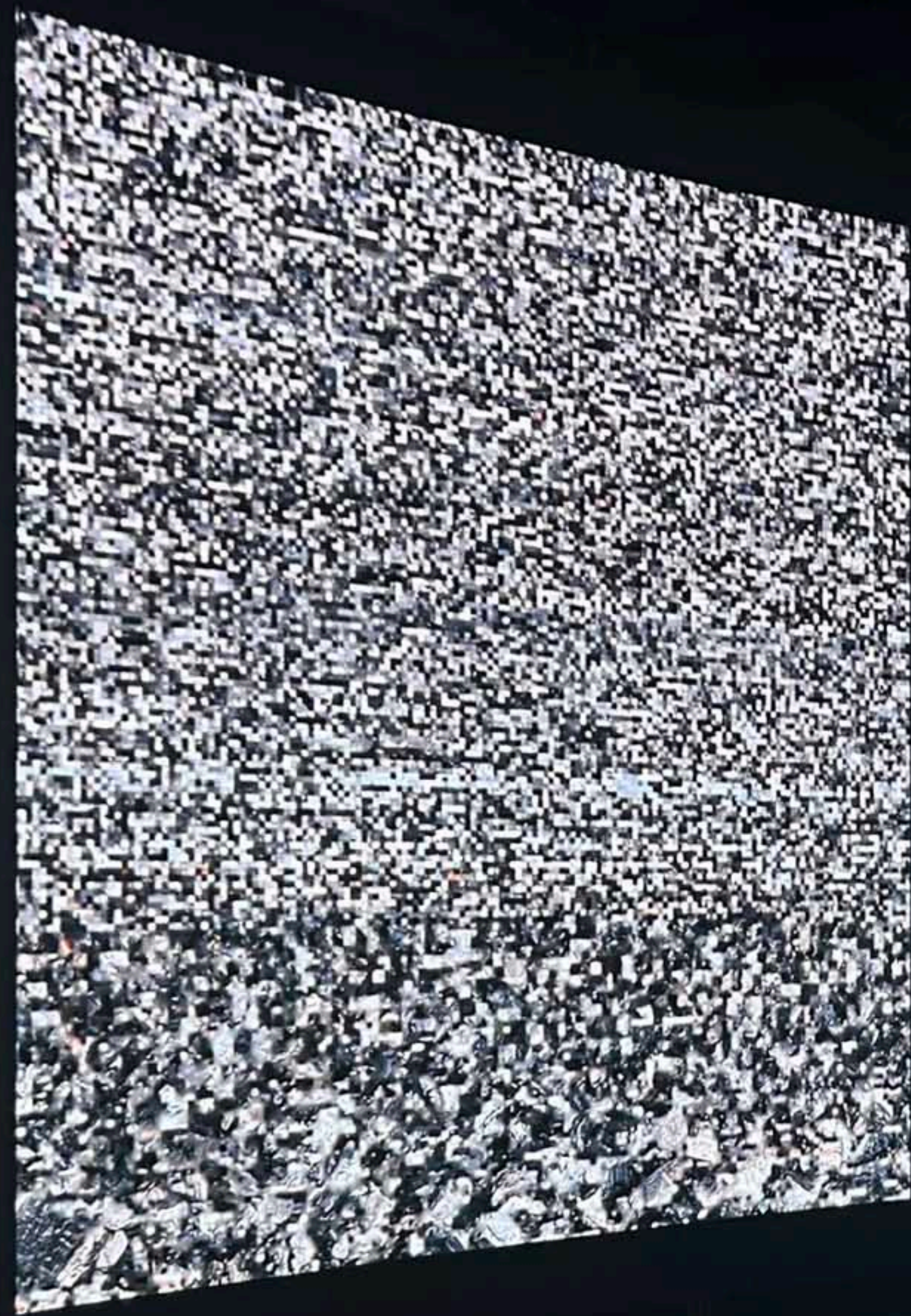
UCLA OCTOBER 2023

Introduction to Worldbuilding

00_ About
breannabrowning.com









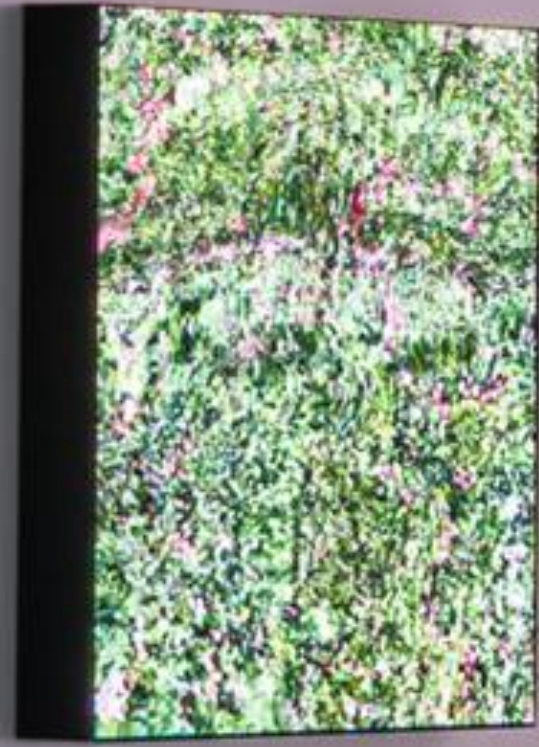
Project: *Brassica*
Cultivar: *Brassica*
PL 100 | 10000
10000 | 10000



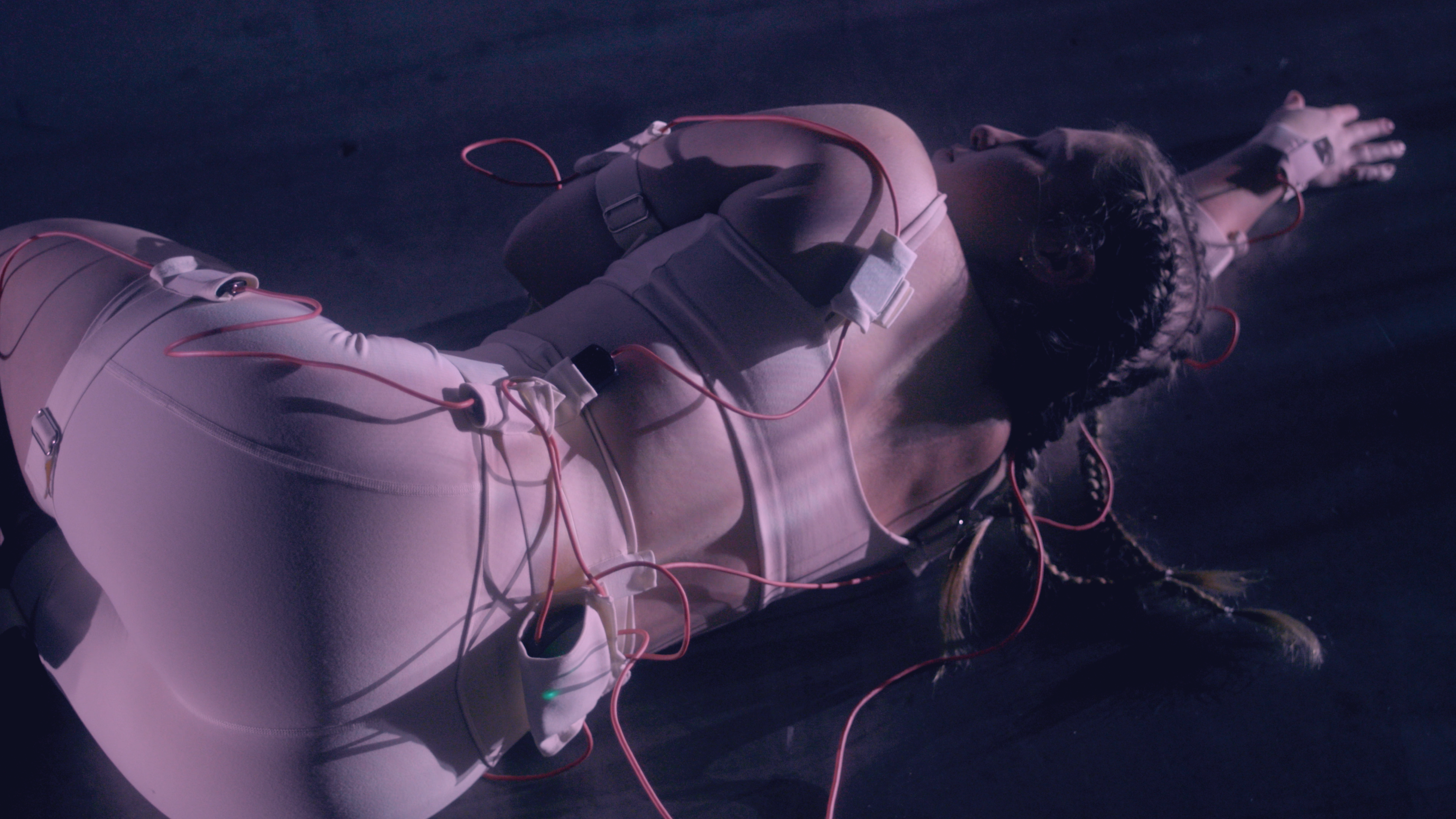
Project: *Brassica*
Cultivar: *Brassica*
PL 100 | 10000
10000 | 10000



2008 1 10 10:00 AM



2008 1 10 10:00 AM





U1L3Z361AY-SAMPA006

HAPPYTM MEDIUM

A NEW CERTAINTY

TEXTILE COMPOSITION

76% Recycled polyester
24% Polyester 330/280/0

Maintenace	_____
Abrasion resistance	_____
Strength	_____
Weight	_____
Drapability	_____

ActivateScenius

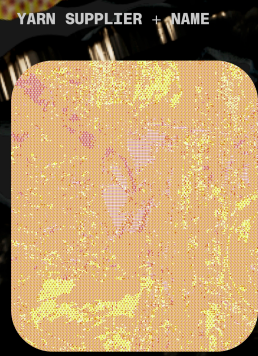
TEXTILE FOOTPRINT



VALBY

KNIT TYPE

3D Double layered knit with polyester fill. The three-dimensionality is a result of how and where the front and back layers attach in combination with where the fill yarn is allowed to expand.



SINTERAMA NEWLIFETM 330/280/0

- High performance recycled polyester yarn
- Made from post-consumption plastic bottles collected in Italy
- Durable, easy-care and lightweight
- NEWLIFETM uses a mechanical process to transform bottles into a polymer without the use of chemicals

Made by artists, for artists.



U1L3Z361AY-SAMPA006

HAPPYTM A NEW CERTAINTY



ActivateScenius

TEXTILE FOOTPRINT



VALBY

KNIT TYPE

3D Double layered knit with polyester fill. The three-dimensionality is a result of how and where the front and back layers attach in combination with where the fill yarn is allowed to expand.

MEDIUM

Made by artists, for artists.

















95

The **Strato Tapestry**

Depicting the battle of Earth, the woven sculpture tells the story of the geoenvironmental systems that have shaped our planet as they penetrated the troposphere and reached the limit of the atmosphere. Now, all that is left of the planet's surface are the ghostly apparitions of an epoch ago. In this tapestry, the zeros were woven into the stories





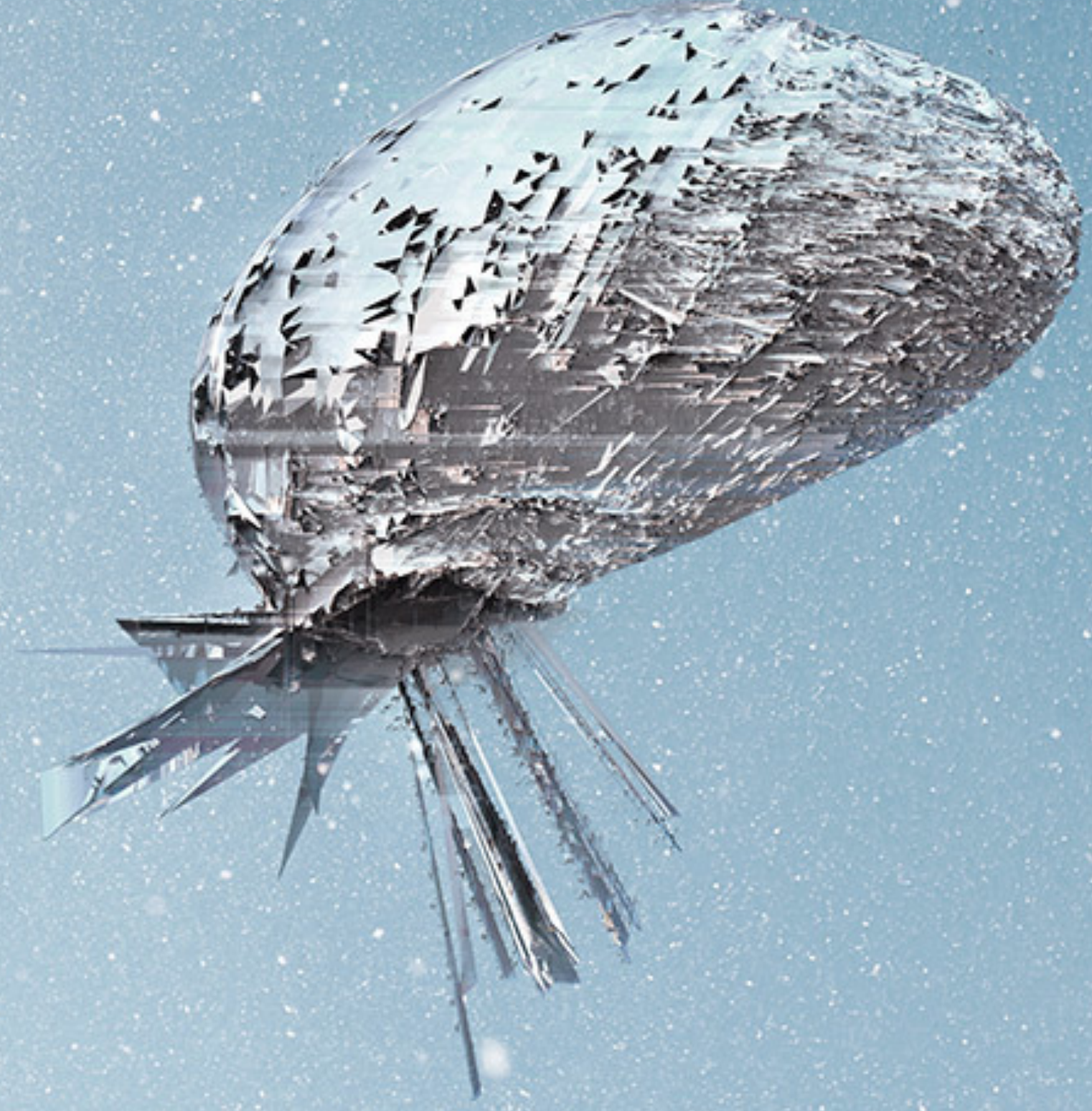
Stormy Sea
A photograph capturing the raw power of a storm, with white-capped waves crashing against a dark, overcast sky. The image is framed and mounted on the gallery wall.

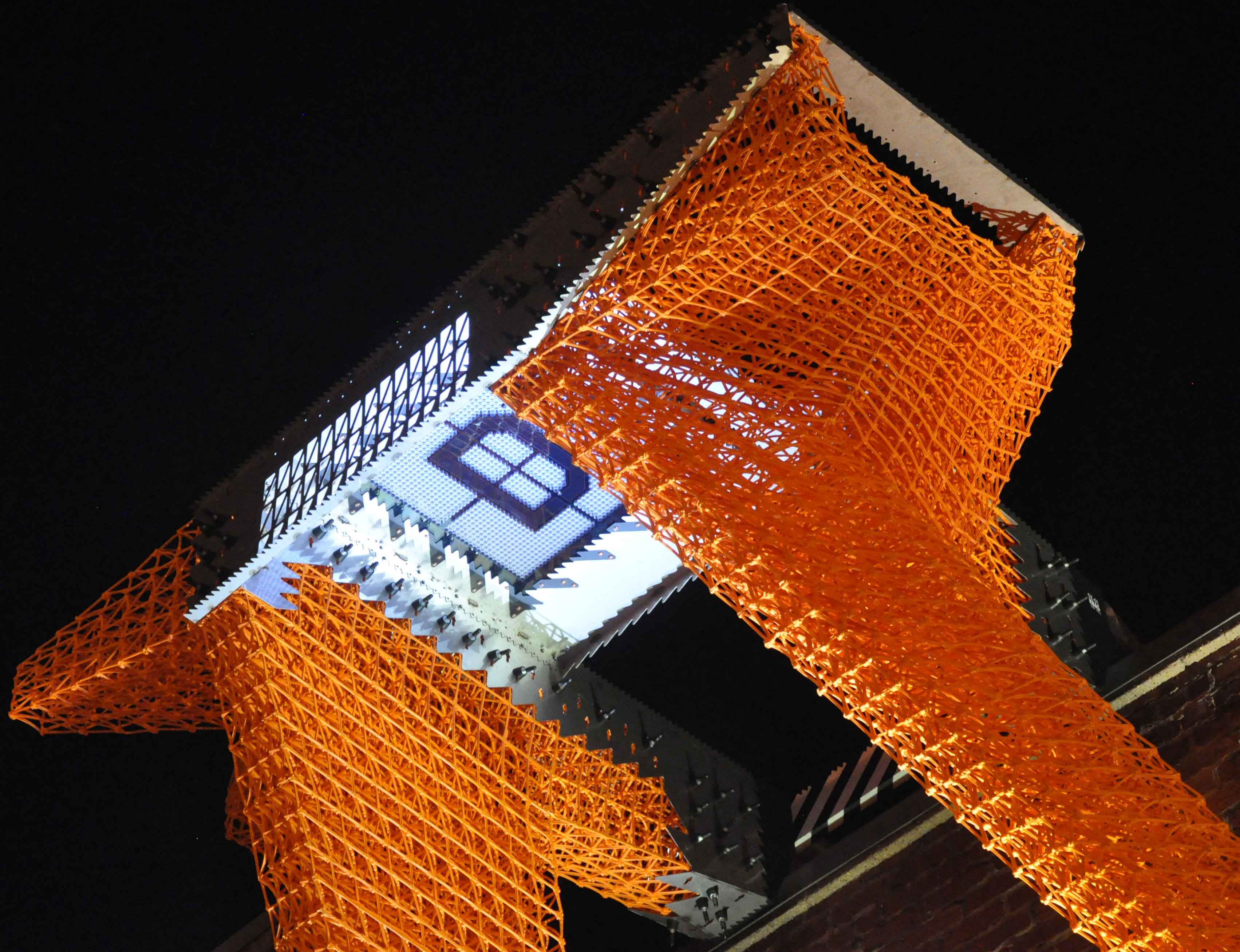


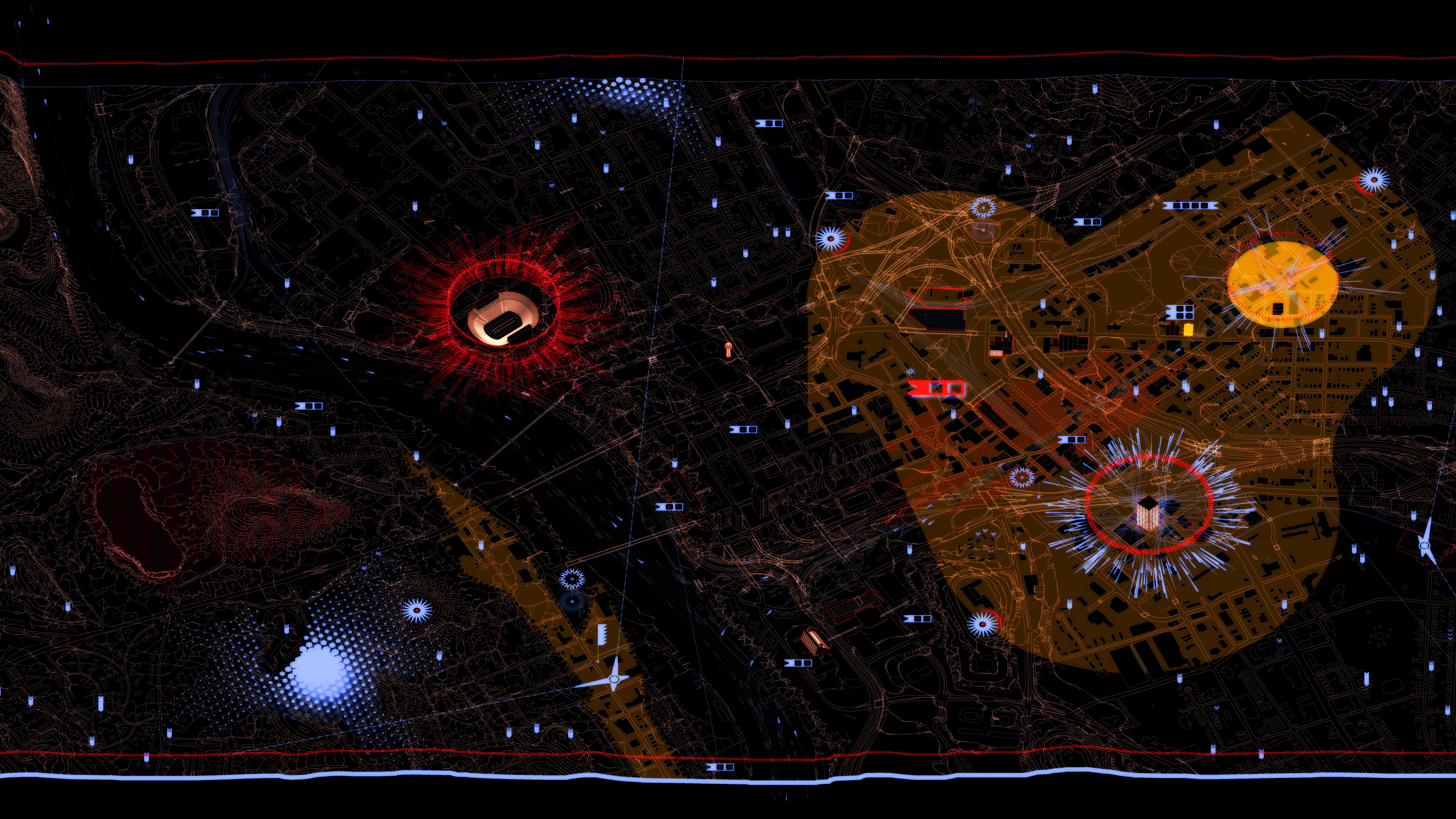
The Wake of Storm

The wake of a storm is a chaotic and powerful phenomenon, characterized by turbulent water, high winds, and a dark, overcast sky. The image captures the raw energy of the sea as it churns and roars, with white-capped waves crashing against a dark, stormy background.

The wake of a storm is a chaotic and powerful phenomenon, characterized by turbulent water, high winds, and a dark, overcast sky. The image captures the raw energy of the sea as it churns and roars, with white-capped waves crashing against a dark, stormy background.











01_Fiction, Speculations, and Visual Storytelling

Art books

Graphic novels

Atlases

FJÄRRHANDSKEN

Då, när roboten dandrade fram över rågfältet bort mot polisbussen, insåg jag att någon förem av gräns hade passerats, och att den passerats många timmar tidigare än idag. Kanske skedde det redan när vi gjorde inboett i magasinets nere vid Sätuna, när Olof släpade ut den där märkliga ryggsäcken. Konstigt att jag inte märkte det då – när Olof trädde på sig den stora handboken och Sakes under presenringen vaknade till liv. Eller hände det ännu tidigare, när vi rynde hemifrån på förmiddagen? Sommarlovsdagar blir så fulla av händelser, det är svårt att minnas hur allt hänger ihop. Kanske passerades gränsen på morgonen, när vi hällde bakpulver och mjöl i barspoolen. Att det varit fel var i alla fall tydligt, av Olofs pappas reaktion att döma. Han klände ihop Olofs kinder och slok rakt in i ansiktet på honom. Efteråt satt vi upproriska på Olofs rum och moerade tyst om livets orättvisor. Olof satt röd om ögonen och masserade sina kinder. Sen smög vi oss ut osedda och frossvann. Det är märkligt hur fjärran en sådan händelse på förmiddagen kan kännas senare samma dag.

I det där fruktansvärda ögonblicket i rågfältet kändes stunden på Olofs rum som ett avlägset minne från ett annat liv. Vissa dagar har ett ryckigt och ilbvilligt arverk – ibland stannar tingen upp mitt i rörelsen, och vi åldras flera år på några sekunder.





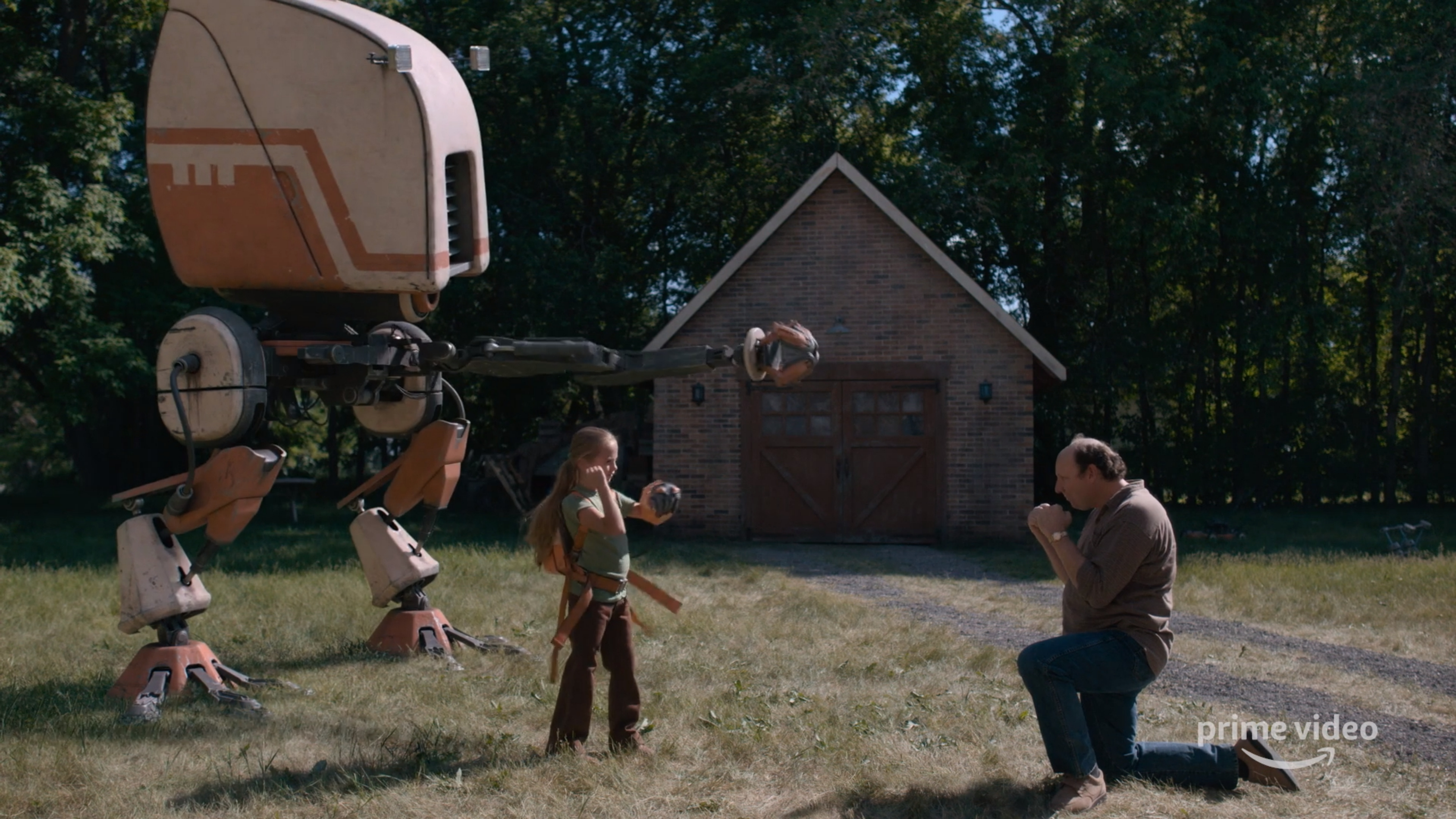
Simon Björkberg
2013





Simon Bälmborg
14





prime video





YOU NEED SPECIAL GLASSES JAHMAL

I CAN SEE IT NOW!

IT'S SITTING 104 KS AWAY

I CALCULATE WE GOT 7 MINUTES 'TIL RE-ENTRY.

104KMS

HA HA HA!

ARRRGH! EDWIN DAN!
WHAT ARE YOU DOING?

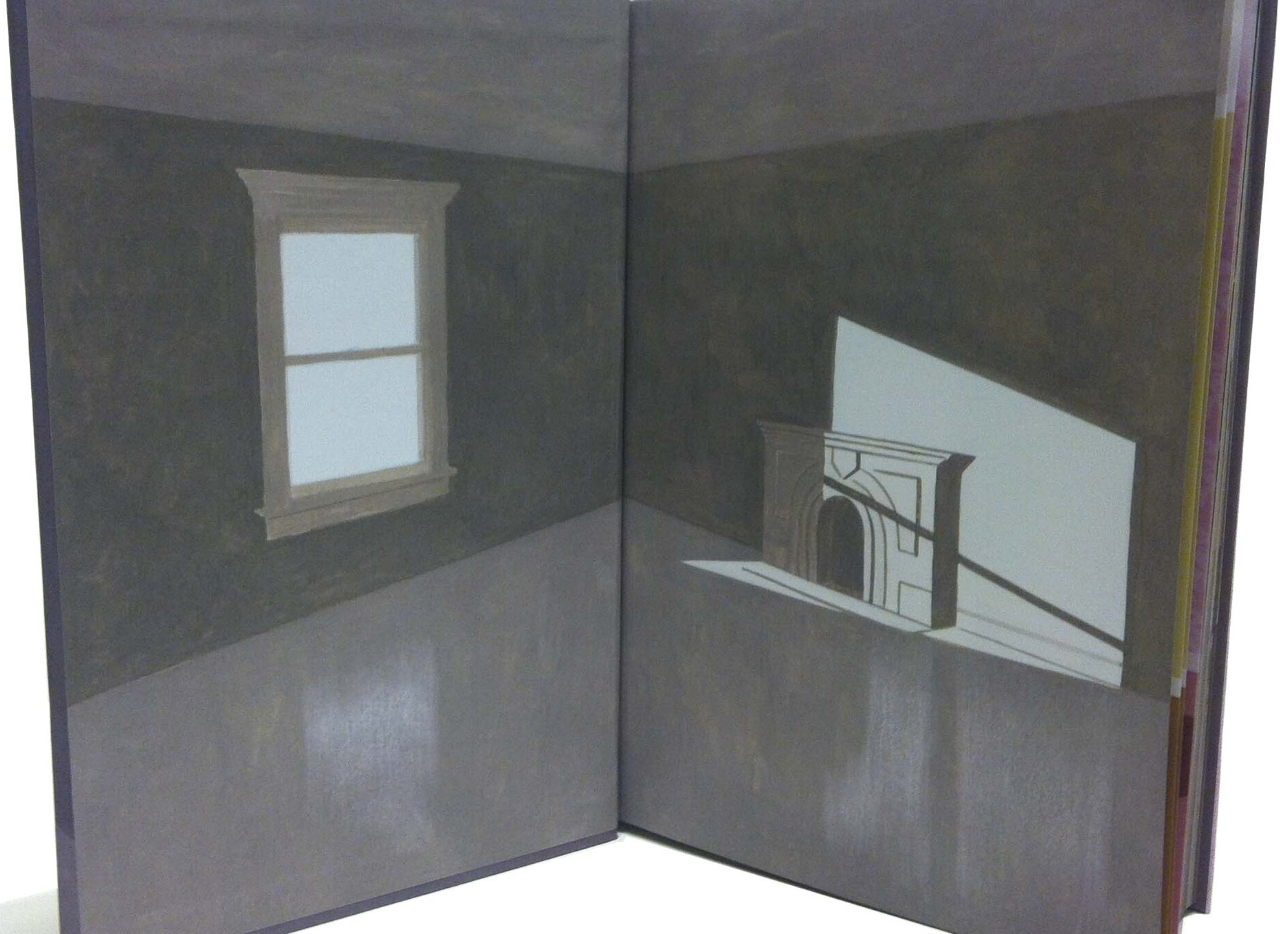
BAH!
YOU GNAW WING!





<https://vimeo.com/90228868>

Richard McQuire-
"Here"



A woman with dark hair, wearing a pink dress and black shoes, stands in a living room. She is looking towards a window with pink curtains. The room features floral wallpaper, a white fireplace, a striped sofa, a lamp, and a round coffee table with a yellow book and papers. A speech bubble above her contains the text: "HMM...NOW WHY DID I COME IN HERE AGAIN?".

HMM...NOW WHY DID I COME IN HERE AGAIN?





1907

1907

1907

1907

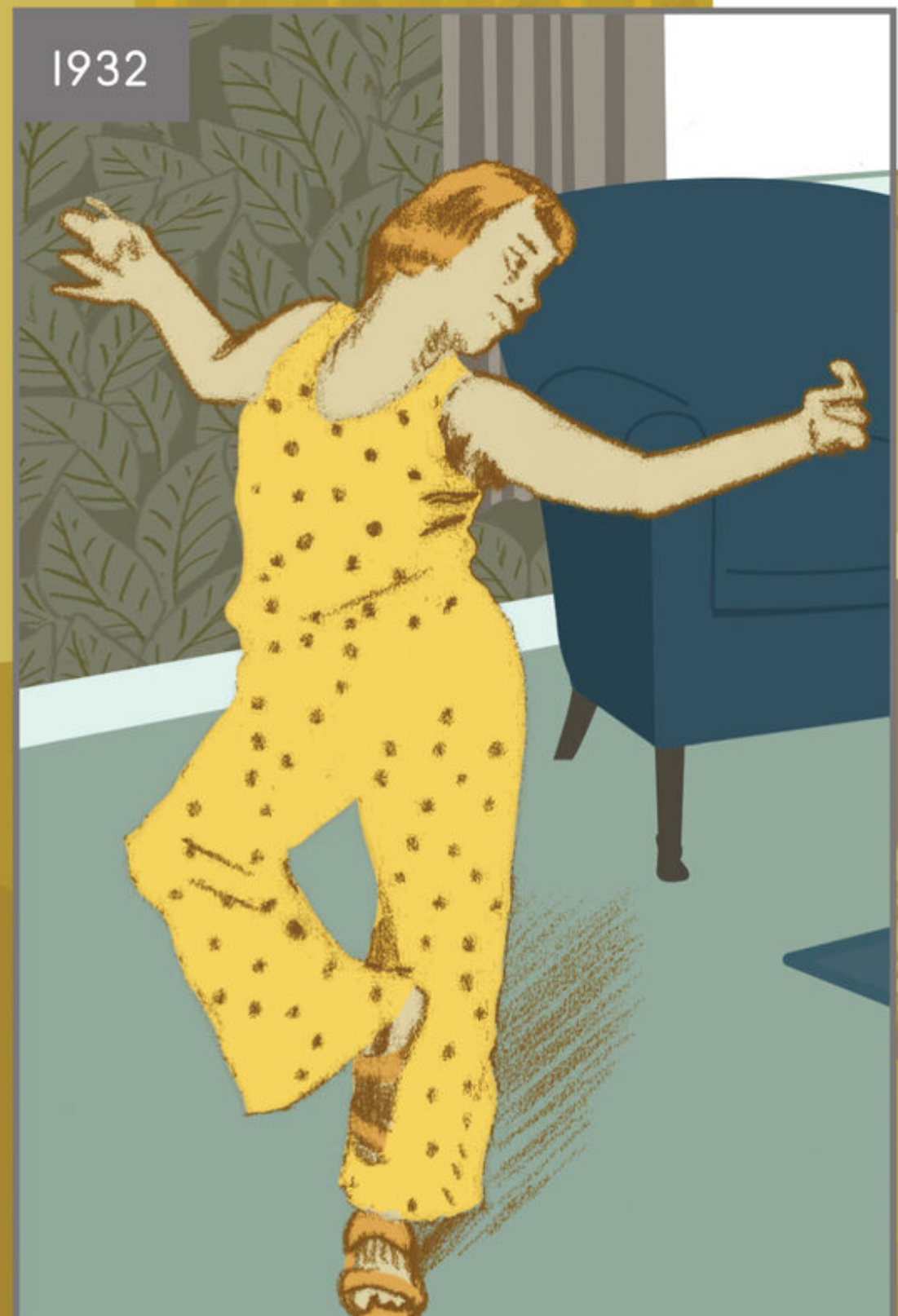
1907

1907

1907

1907

1907



2014



1926



1625

OH, THOU DUNDERHEAD!



1990



1852

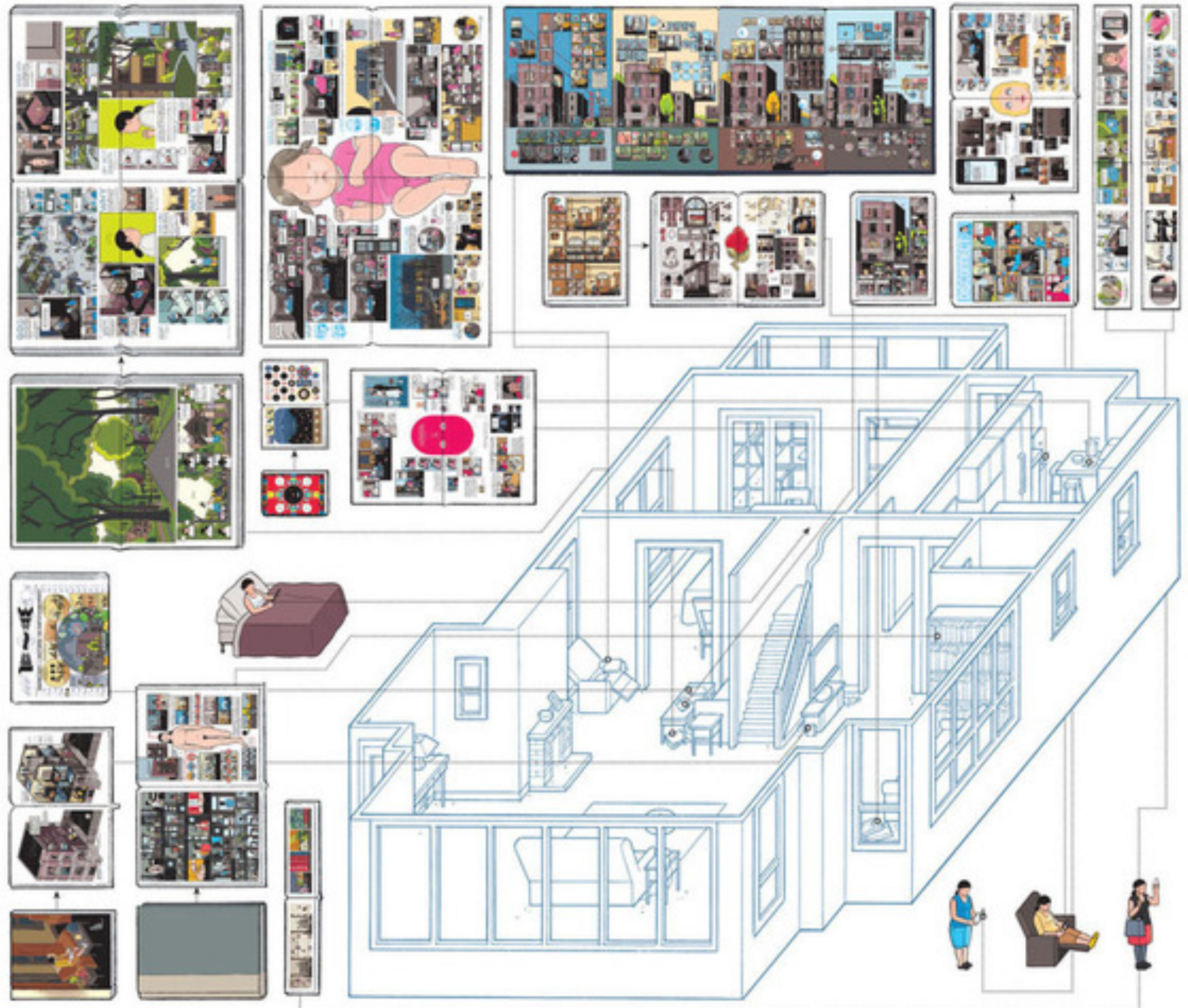
YOU IMBECILE!

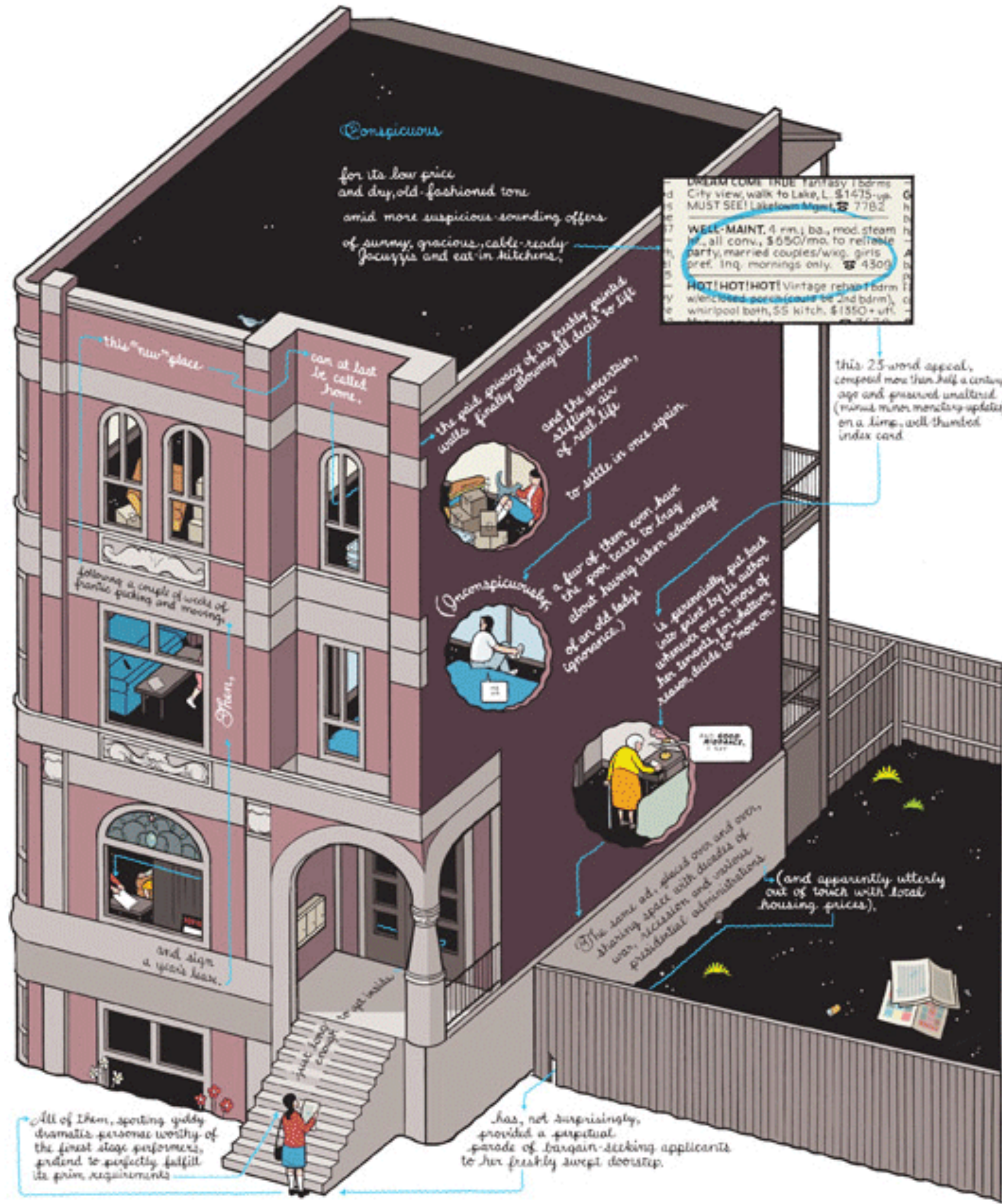


1673

YOU NINCOMPOOP!

Chris Webb -
"Building Stories"





Conspicuous

for its low price and dry, old-fashioned tone amid more suspicious-sounding offers of sunny, gracious, cable-ready Jacuzzi and eat-in kitchens.

DREAM COME TRUE Fantasy 1 bdrm City view, walk to Lake, L. \$1475-up. MUST SEE! Laketown Agent ☎ 7782

WELL-MAINT. 4 rm., ba., mod. steam ht., all conv., \$650/mo. to retire party, married couples/wkg. girls pref. Inq. mornings only. ☎ 4300

HOT! HOT! HOT! Vintage rehab 1 bdrm w/enclosed porch (can't be 2nd bdrm), whirlpool bath, SS kitch. \$1850+ utl.

this 25-word appeal, composed more than half a century ago and preserved unaltered (minus minor monetary updates) on a limp, well-thumbed index card

the quiet privacy of its family painted walls, finally allowing all dead to lift and the uncertain, stifling air of real life to settle in once again.

Incidentally, a few of them even have the post taste to long about having taken advantage of an old lady.

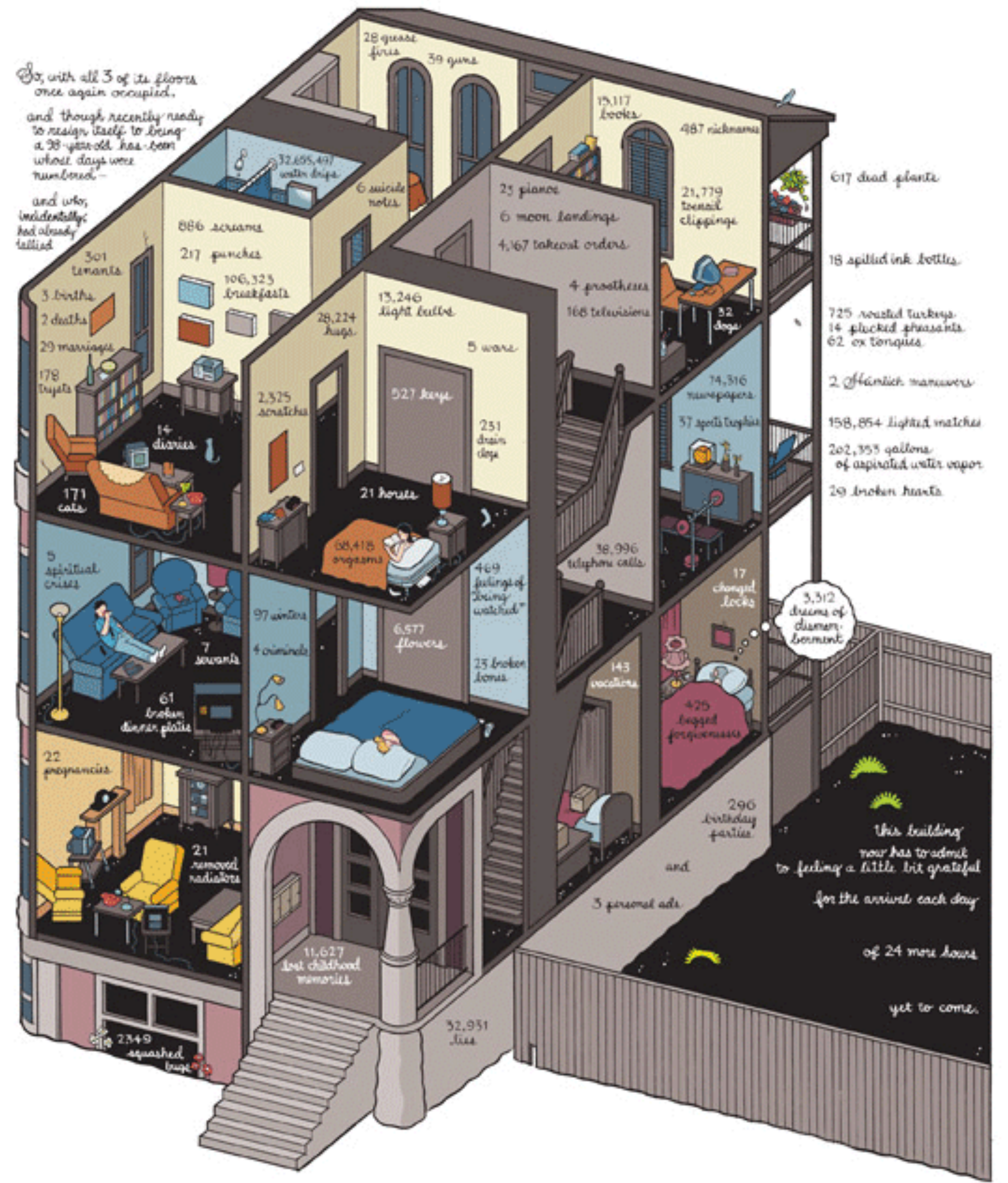
is, presumably put back into place by its author whenever one or more of her, towards fortuitous season, decide to "move on."

The same ad, placed over and over, showing apart with dozens of war, accident and various presidential administrations

(and apparently utterly out of touch with local housing prices),

has, not surprisingly, provided a perpetual parade of bargain-seeking applicants to her freshly swept doorstep.

All of them, sporting glibly dramatic personas worthy of the finest stage performers, pruned to perfectly fulfill its grim requirements



So, with all 3 of its floors once again occupied, and though recently ready to resign itself to being a 28-year-old has-been whose days were numbered -

and who, incidentally, had already talked

301 tenants

178 dupes

5 spiritual crises

22 pregnancies

2349 squashed bugs

11,627 lost childhood memories

32,951 lies

886 screams

217 punches

14 diaries

61 broken dinner plates

21 removed radiators

97 winters

4 criminals

32,654,417 water drips

106,323 breakfasts

2,325 scratches

97 winters

7 seconds

28,224 hugs

527 hugs

23,418 programs

6 suicide notes

13,246 light bulbs

251 drain dips

469 feelings of being watched

25 broken bones

6,577 flowers

143 vocations

32,951 lies

25 pianos

6 moon landings

4 prostheses

38,996 telephone calls

143 vocations

296 birthday parties

3 personal ads

32,951 lies

15,117 locks

21,779 toenail clippings

74,316 newspapers

37 spoilt trophies

425 logged frequencies

17 chongal locks

296 birthday parties

32,951 lies

487 nicknames

52 dogs

17 chongal locks

3,312 dreams of diamond-bonnet

425 logged frequencies

296 birthday parties

32,951 lies

32,951 lies

617 dead plants

18 spilled ink bottles

725 roasted turkeys

2 Händel maneuvers

158,854 lighted matches

202,353 gallons of aspirated water vapor

29 broken hearts

3,312 dreams of diamond-bonnet

425 logged frequencies

296 birthday parties

and

3 personal ads

yet to come.

of 24 more hours

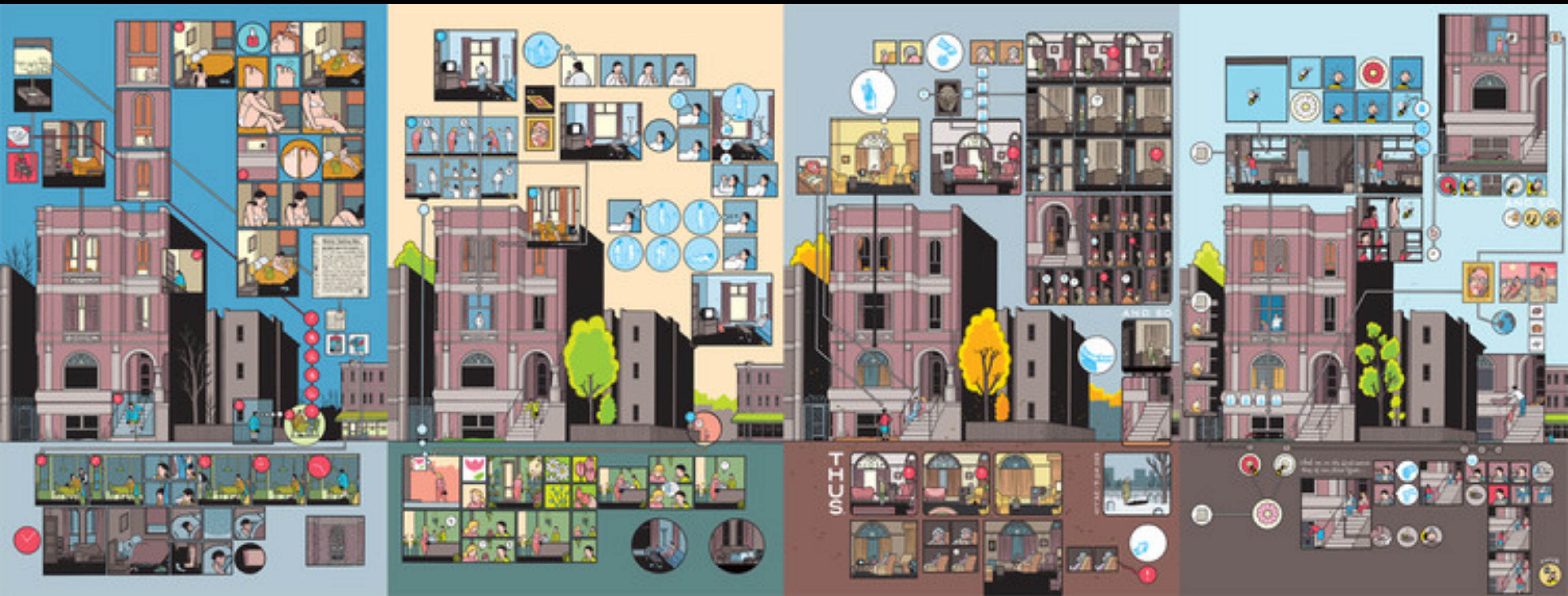
for the arrival each day

to feeling a little bit grateful

this building

now has to admit

and





CODEx SERAPHINIANUS



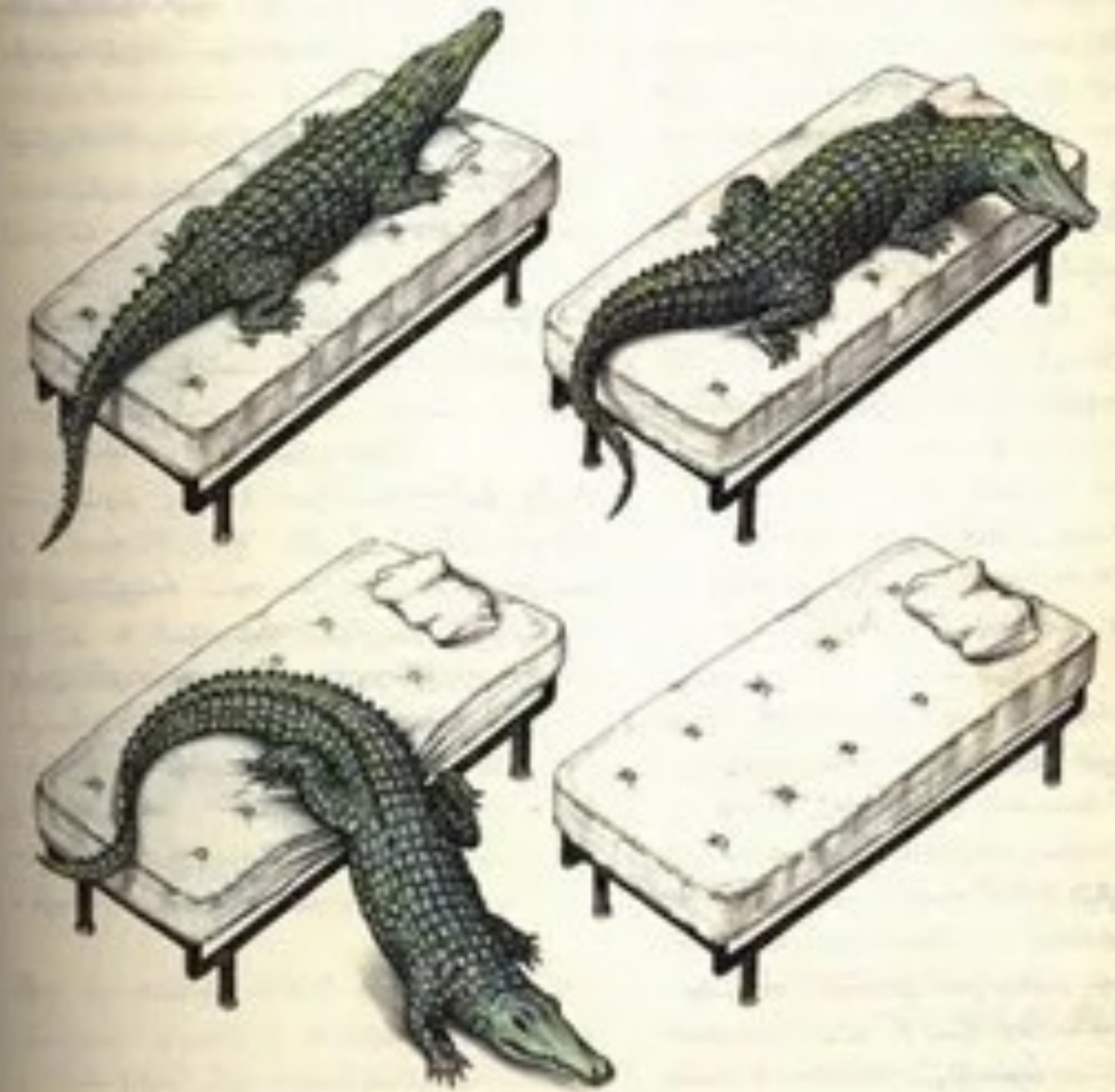
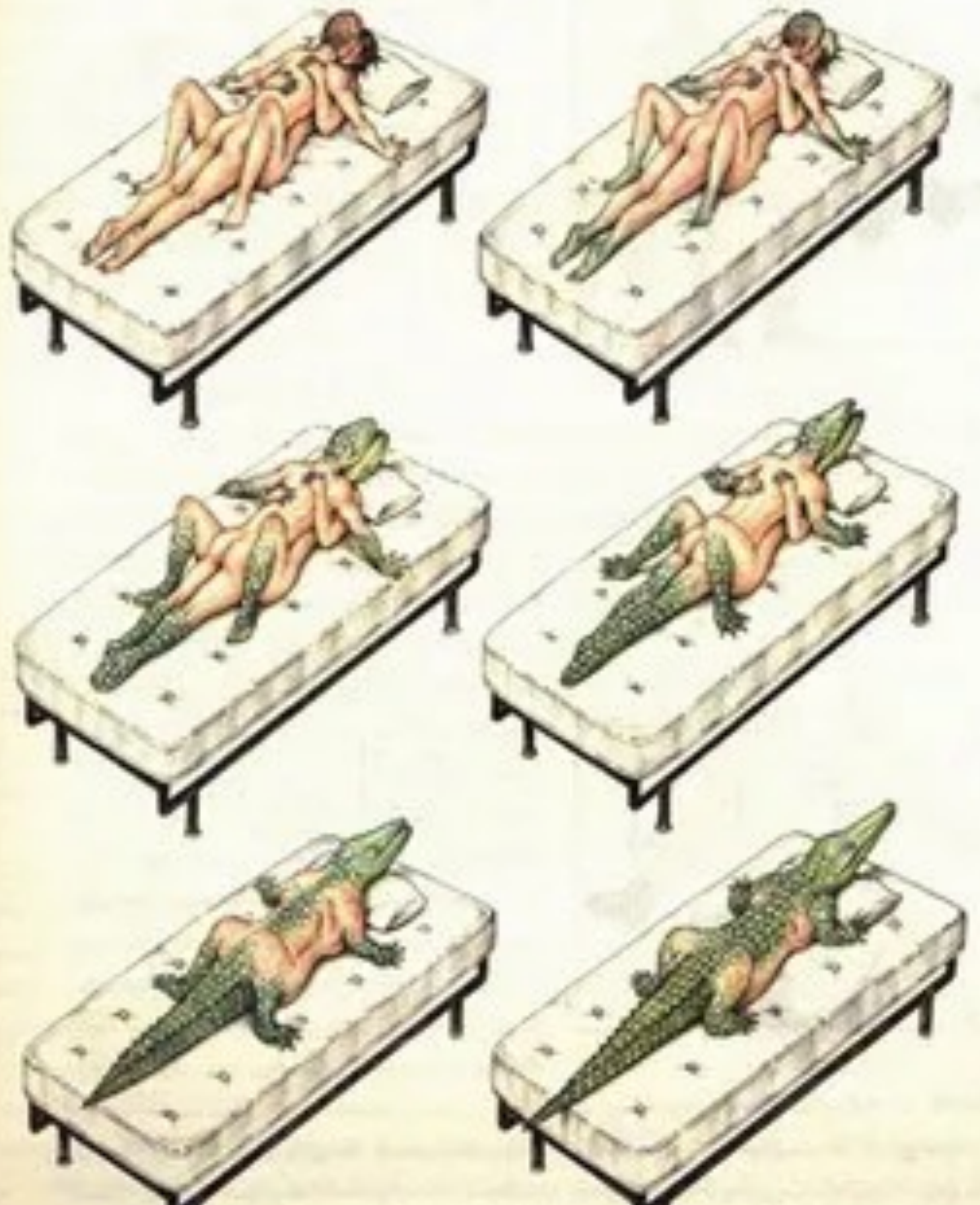
Handwritten text in a cursive script, likely a page from the Codex Seraphinianus.



Rizzoli



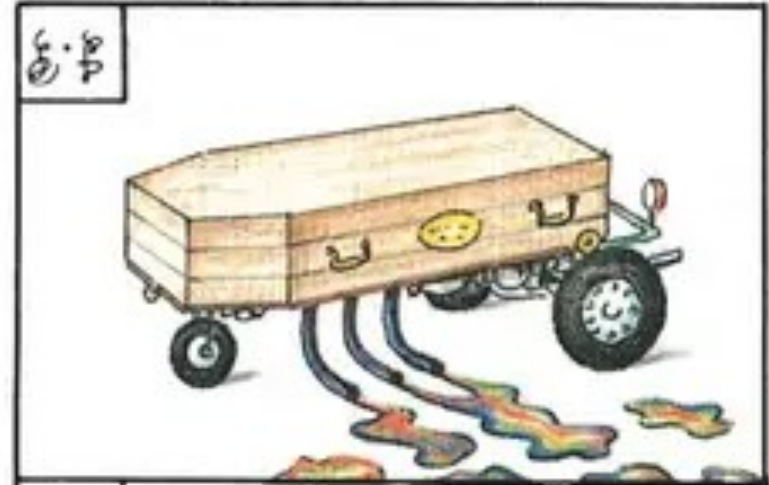
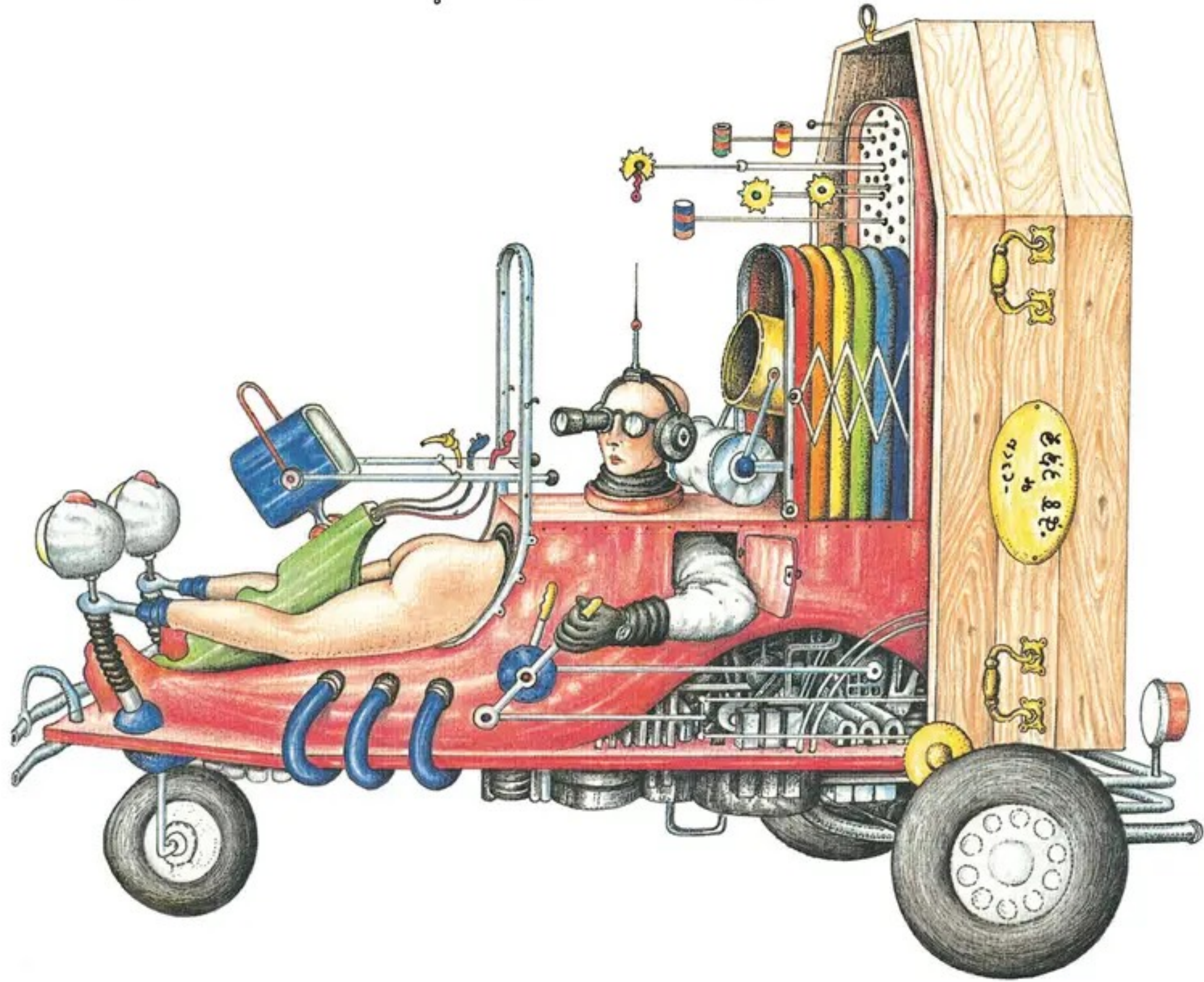
Handwritten text in Arabic script at the top of the left page.



Handwritten text in Arabic script at the bottom of the right page, describing the illustrations.

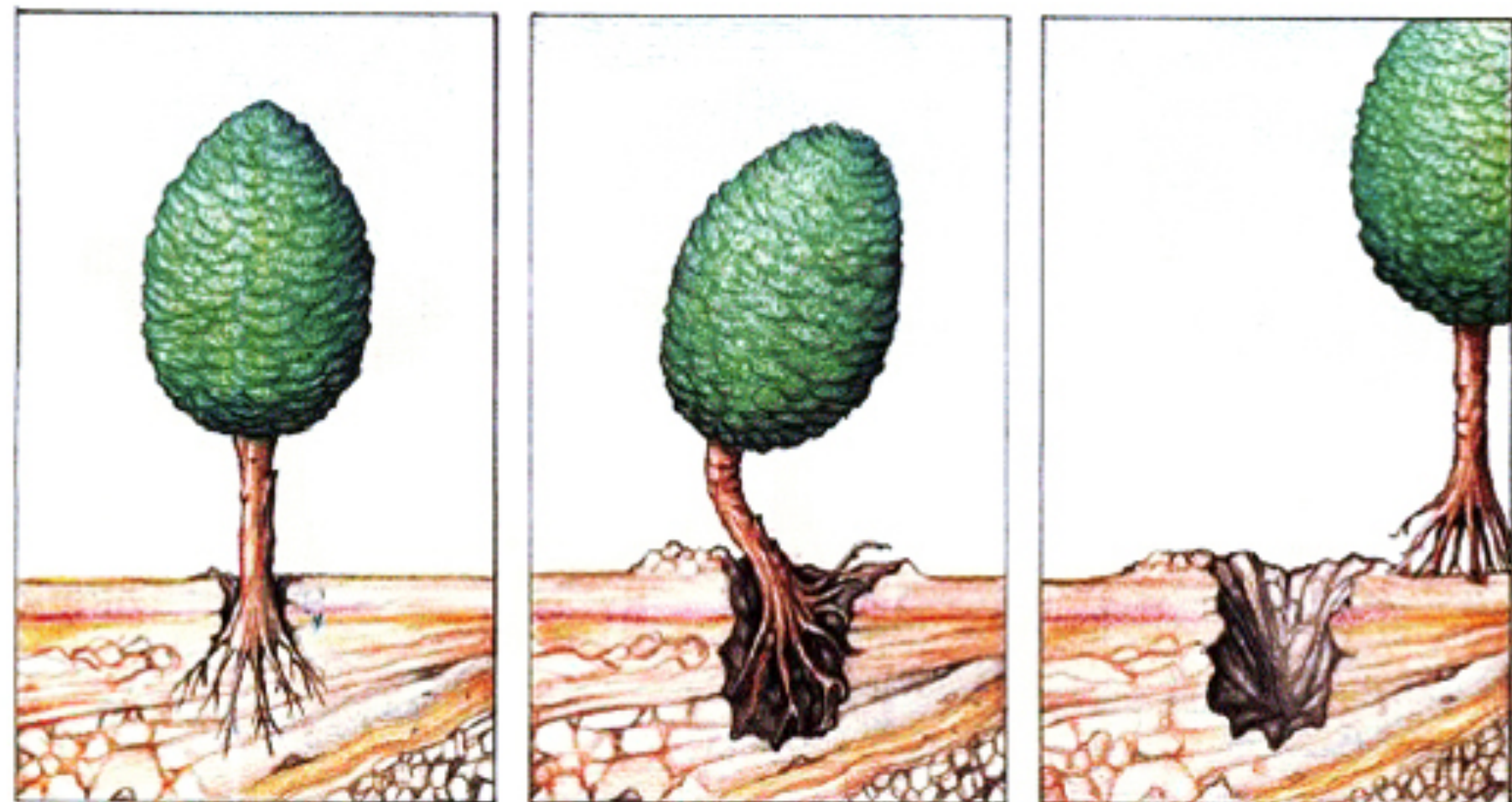
Additional handwritten text in Arabic script at the very bottom of the right page.

နိ - စုံစုံလင်လင် ၎င်း ၎င်း



၃. ငွေစုံလင် ဗြဲကံ
 'ဗြဲကံလဲလဲ. ဗြဲကံ ၎င်း ငွေ
 'ဗြဲကံလဲလဲ ကလေး ဗြဲကံ
 ငွေ ၎င်း ဗြဲကံ. ၎င်း ငွေကံ
 စုံစုံလင် ဗြဲကံ. ငွေ
 ၎င်း ဗြဲကံ ဗြဲကံ ၎င်း
 ၎င်း ငွေကံ စုံစုံလင် ငွေ. ၎င်း
 ဗြဲကံ ငွေ.
 'ဗြဲကံလဲလဲ - ငွေ ဗြဲကံ.
 ဗြဲကံ ဗြဲကံ ငွေ ဗြဲကံ
 'ဗြဲကံ ၎င်း ဗြဲကံ ဗြဲကံ

3- ԵԼԵՓՈՅՆ ԴՐ



Մանուկ

Բուսակալ

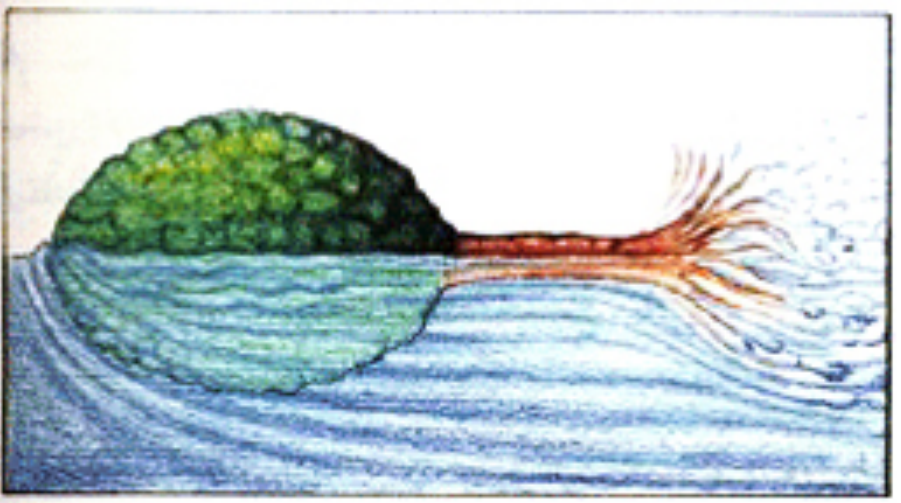
Մեծահասակ

Մանուկը - ամենից առ կարճակյաց է հասնում և այն քան որ ինչ փայլուն է լինում, այնքան էլ թափվում է և փայլուն է լինում, որովհետև ինչպես ասելով, որ քան որ ինչ փայլուն է լինում, այնքան էլ թափվում է և փայլուն է լինում...

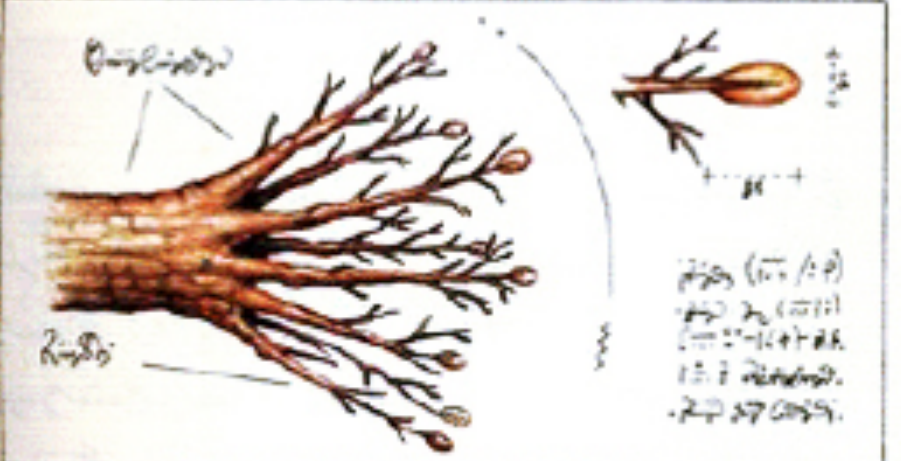


Մանուկը և մեծահասակը - ինչպես տեսնում ենք, որ քան որ ինչ փայլուն է լինում, այնքան էլ թափվում է և փայլուն է լինում...

3- ԵԼԵՓՈՅՆ ԴՐ



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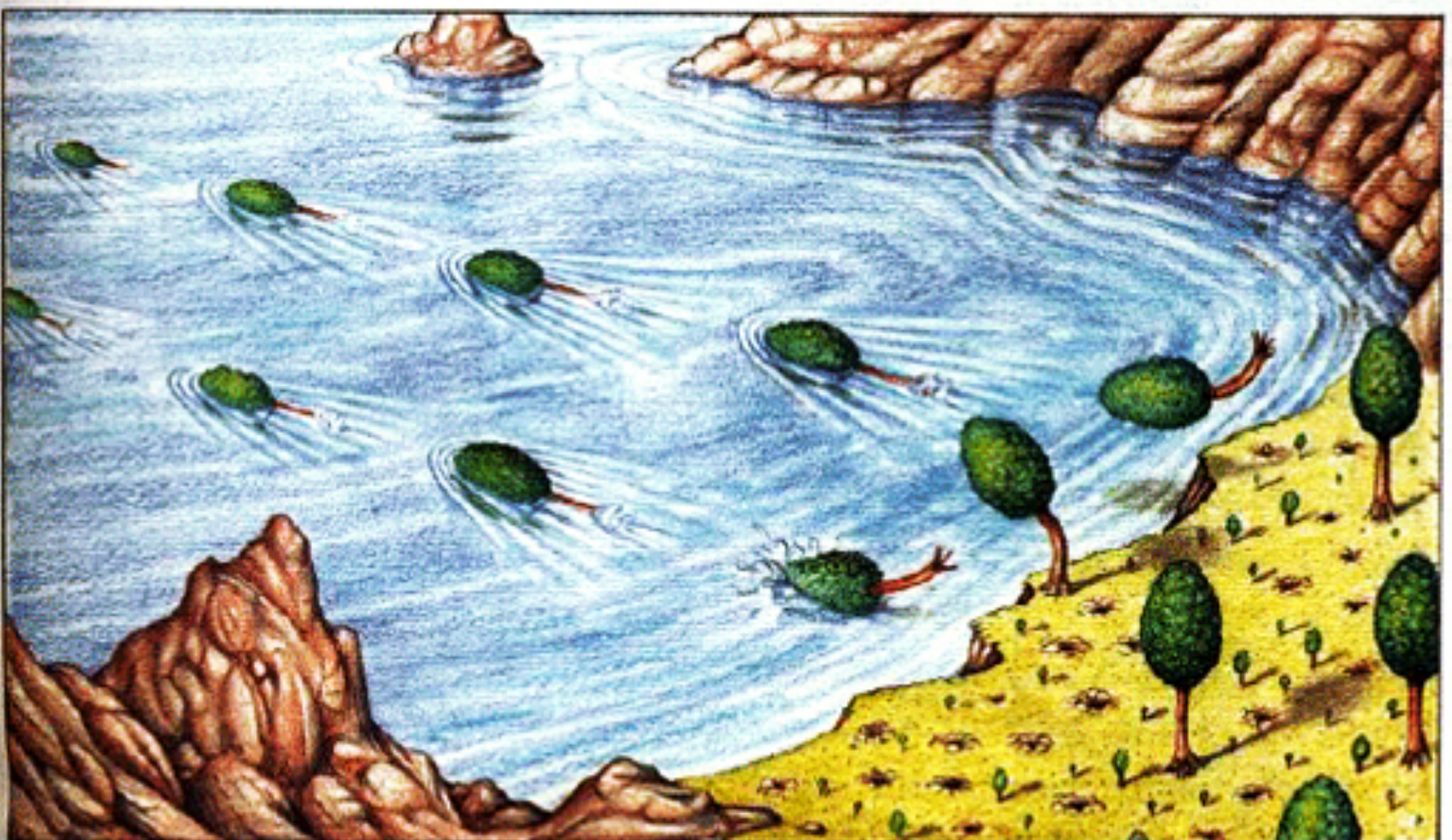
Մանուկը - ինչպես տեսնում ենք, որ քան որ ինչ փայլուն է լինում, այնքան էլ թափվում է և փայլուն է լինում...

Մանուկը և մեծահասակը

Մանուկը և մեծահասակը - ինչպես տեսնում ենք, որ քան որ ինչ փայլուն է լինում, այնքան էլ թափվում է և փայլուն է լինում...

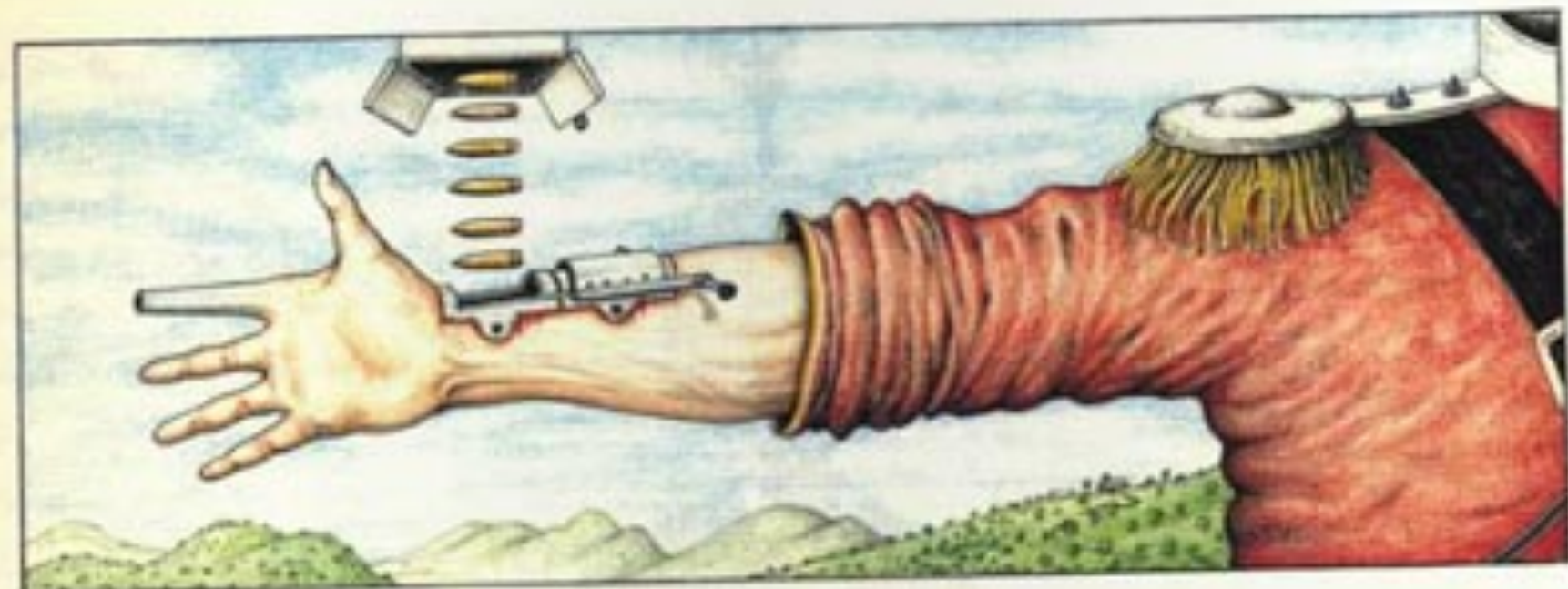
Մանուկը և մեծահասակը

Մանուկը և մեծահասակը - ինչպես տեսնում ենք, որ քան որ ինչ փայլուն է լինում, այնքան էլ թափվում է և փայլուն է լինում...

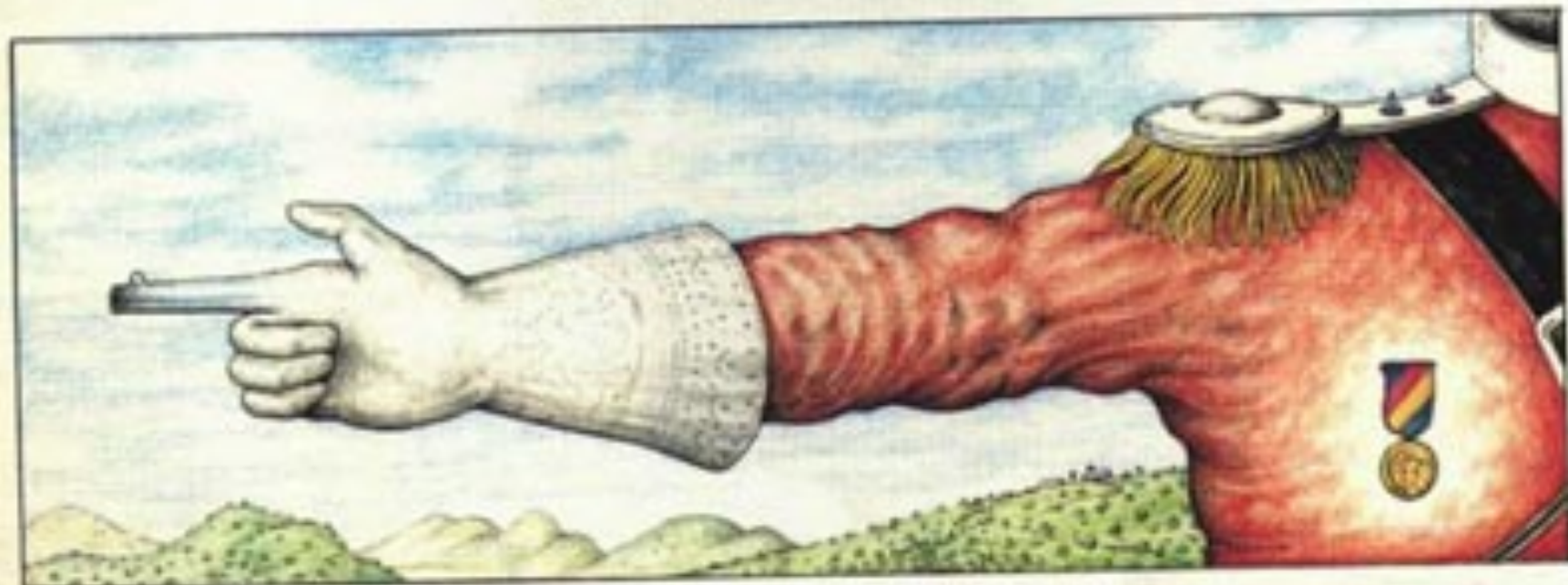


Մանուկը - ինչպես տեսնում ենք, որ քան որ ինչ փայլուն է լինում, այնքան էլ թափվում է և փայլուն է լինում...

Ֆ-ՓԼԵԶԵԶՓԵ



Ֆրանսիական զինամթերքի արտադրություն



Ֆրանսիական զինամթերքի արտադրությունը հիմնականում կապված է Ֆրանսիայի հարավ-արևմտյան մասերի հետ, որտեղ գտնվում են Մուսոնի և Սեյն-Էտիենի արտադրամասերը։ Այստեղ արտադրվում են զենքերի և զինամթերքի մեծ քանակությամբ։ Ֆրանսիական զինամթերքի արտադրության զարգացումը կապված է 19-րդ դարի սկզբի հետ, երբ Ֆրանսիան ակտիվորեն մասնակցում էր Եվրոպայի պատերազմներին։ Այդ ժամանակահատվածում Ֆրանսիան արտադրել էր զենքերի և զինամթերքի մեծ քանակությամբ, որոնք օգտագործվել են ինչպես ինքնակառավարման համար, այնպես էլ արտադրվել են արտասահմանում։ Ֆրանսիական զինամթերքի արտադրության զարգացումը կապված է նաև 19-րդ դարի վերջի հետ, երբ Ֆրանսիան ակտիվորեն մասնակցում էր Արևելյան հարցի լուծմանը։ Այդ ժամանակահատվածում Ֆրանսիան արտադրել էր զենքերի և զինամթերքի մեծ քանակությամբ, որոնք օգտագործվել են ինչպես ինքնակառավարման համար, այնպես էլ արտադրվել են արտասահմանում։

Ֆ-ՓԼԵԶԵԶՓԵ



Ֆրանսիական զինամթերքի արտադրությունը հիմնականում կապված է Ֆրանսիայի հարավ-արևմտյան մասերի հետ, որտեղ գտնվում են Մուսոնի և Սեյն-Էտիենի արտադրամասերը։ Այստեղ արտադրվում են զենքերի և զինամթերքի մեծ քանակությամբ։ Ֆրանսիական զինամթերքի արտադրության զարգացումը կապված է 19-րդ դարի սկզբի հետ, երբ Ֆրանսիան ակտիվորեն մասնակցում էր Եվրոպայի պատերազմներին։ Այդ ժամանակահատվածում Ֆրանսիան արտադրել էր զենքերի և զինամթերքի մեծ քանակությամբ, որոնք օգտագործվել են ինչպես ինքնակառավարման համար, այնպես էլ արտադրվել են արտասահմանում։ Ֆրանսիական զինամթերքի արտադրության զարգացումը կապված է նաև 19-րդ դարի վերջի հետ, երբ Ֆրանսիան ակտիվորեն մասնակցում էր Արևելյան հարցի լուծմանը։ Այդ ժամանակահատվածում Ֆրանսիան արտադրել էր զենքերի և զինամթերքի մեծ քանակությամբ, որոնք օգտագործվել են ինչպես ինքնակառավարման համար, այնպես էլ արտադրվել են արտասահմանում։

Jorge Luis Borges - "Book of Imaginary Beings"

DISCUS/AVON/DS19/\$1.45

THE BOOK OF IMAGINARY BEINGS

The new work by "a giant of world literature." JOHN UPDIKE

Jorge Luis Borges

With Margarita Guerrero; revised, enlarged, and translated by
Norman Thomas di Giovanni in collaboration with the author



Suggested or inspired by mirrors, the surface of still water, and twins, the concept of the Double is common to many lands. It seems likely that statements such as Pythagoras' "A friend is another myself" and Plato's "Know thyself" were inspired by it. In Germany, it is called the *Doppelgänger*; in Scotland, the *fetch*, because it comes to fetch men to their death. Meeting oneself was, therefore, most ominous; the tragic ballad "Ticonderoga" by Robert Louis Stevenson recounts a legend on this theme. We might also recall that strange painting by Rossetti called "How They Met Themselves"—two lovers met themselves at dusk in a forest. One need only mention other instances in Hawthorne, Dostoyevsky, and Alfred de Musset.

For the Jews, on the other hand, the apparition of the Double was not a foreshadowing of death, but rather a proof that the person to whom it appeared had achieved the rank of prophet. This is the explanation offered by Gershom Scholem. A tradition included in the Talmud tells the story of a man, searching for God, who met himself.

In Poe's story "William Wilson," the Double is the hero's conscience; when the hero kills his double, he dies. In the poetry of William Butler Yeats, the Double is our "other side," our opposite, our complement, that person that we are not and shall never be.

Plutarch wrote that the Greeks called the king's representative the "other I."



that of its own figure, but rather
from this circumstance, some have
tions are the souls of men who
on of the gods. . . .
e upon as they were feeding upon
locks and have been seen at high
f Hercules.
nies of mankind. It appears that
a man, their shadow becomes
n body, and they attain the fa-
seas with Scipio to conquer
n their enterprise, for during
of Perytions appeared, kill-
Although our weapons are
n, the animal can kill but a
f their victim and then fly
e seen not a few years ago,
ky-blue, a fact which I find
that the plumage is of a
are quite specific, it is
rmation concerning the
ay. Nor has the rabbi's
description managed to
ntil the last world war,



Ammar Reshi - "Alice and Sparkle"

ALICE AND SPARKLE

by Ammaar Reshi





The best of friends

Sparkle quickly proved to be a valuable friend. It helped Alice with her schoolwork, played games with her, and they had the best time ever.

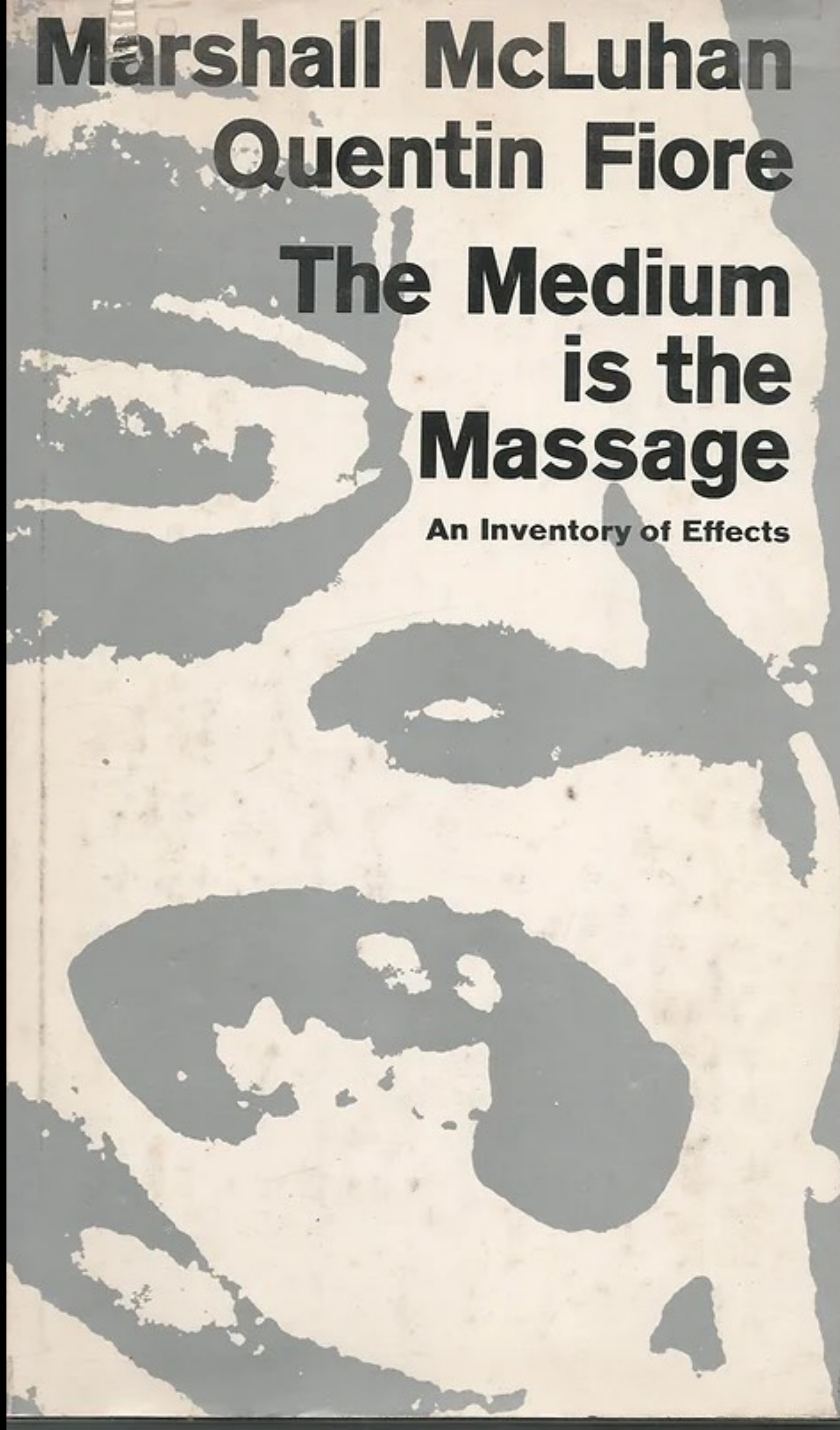
Futurism and design research:

Books

Imagery

Reports

Marshall McLuhan and Quentin Fiore-
“The Medium is the Message”



Marshall McLuhan
Quentin Fiore
The Medium
is the
Message

An Inventory of Effects

electric circuitry,

an extension of
the
central
nervous
system



41
Media, by altering the environment, evoke in us
unique ratios of sense perceptions. The extension
of any one sense alters the way we think and act—
the way we perceive the world.

When
these
ratios
change,

men change.



The past went that-a-way. When faced with a totally new situation, we tend always to attach ourselves to the objects, to the flavor of the most recent past.

We look at the present through a rear-view mirror. We march backwards into the future. Suburbia lives imaginatively in Bonanza-land.

the book



is an extension of the eye...



rt
A

is anything

you
can
get away
with



*"The biggest and best woman in the world,"
an 82-foot-long, 20-foot-high sculpture, in Moderna
Museum, Stockholm. You can walk around in her.*

All
mec
are
exte
of
som
hum
facu
psyc
or
phys
Th
M
is
th
M
is a k
is hap
The r
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and r
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recor
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famil
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And t
Soci
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whic
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tech
very
unco
so to
of wc
think

Printing, a ditto device

Printing, a ditto device

Printing, a ditto device

Printing, a ditto device confirmed and extended the new visual stress. It provided the first uniformly repeatable "commodity," the first assembly line—mass production.

It created the portable book, which men could read in privacy and in isolation from others. Man could now inspire—and conspire.

Like easel painting, the printed book added much to the new cult of individualism. The private, fixed point of view became possible and literacy conferred the power of detachment, non-involvement.

Printing, a ditto device

Printing, a ditto device

Printing, a ditto device

Printing, a ditto device

Printing, a ditto device

Printing, a ditto device

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Printing, a ditto device

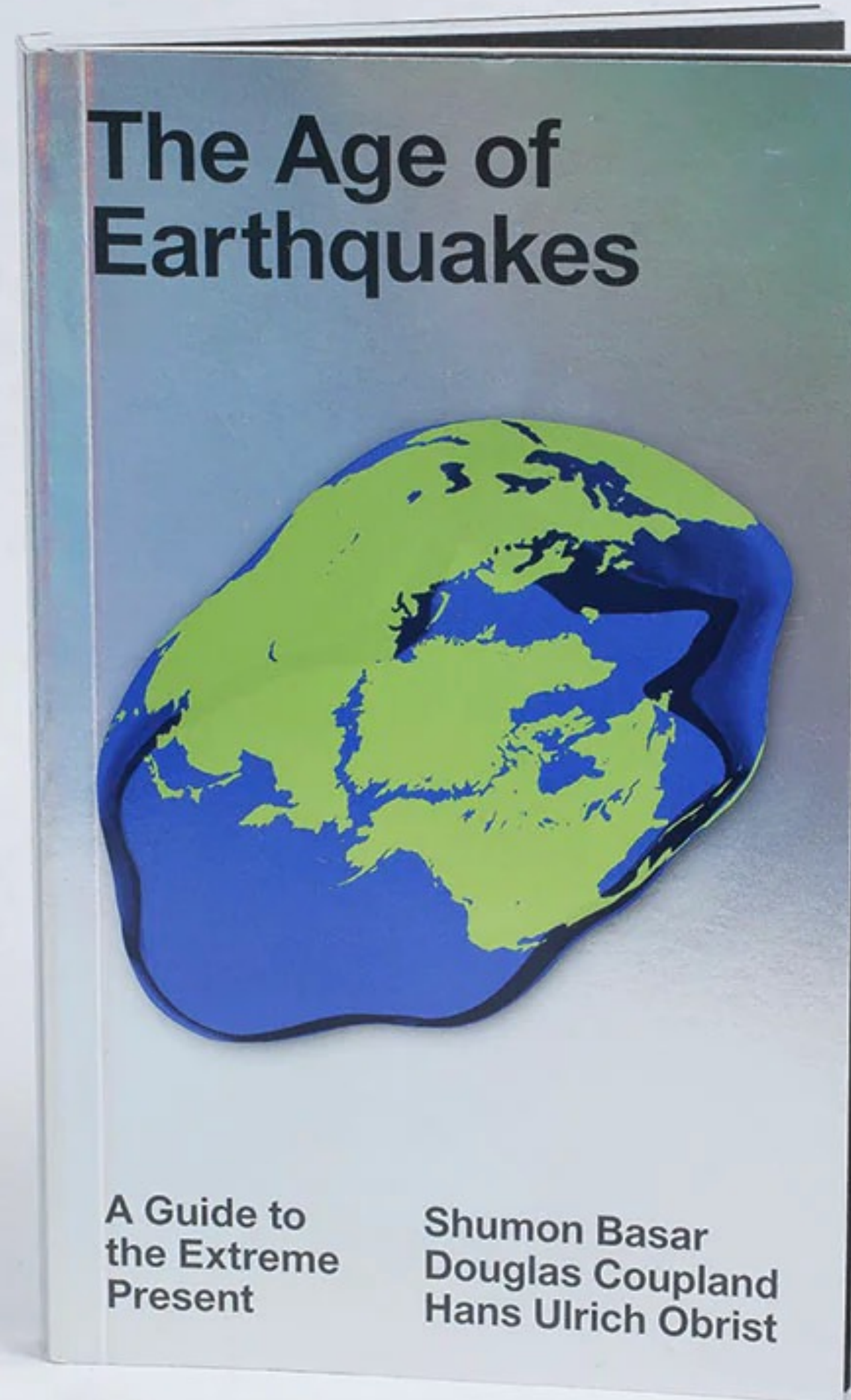
Printing, a ditto device

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Printing, a ditto device

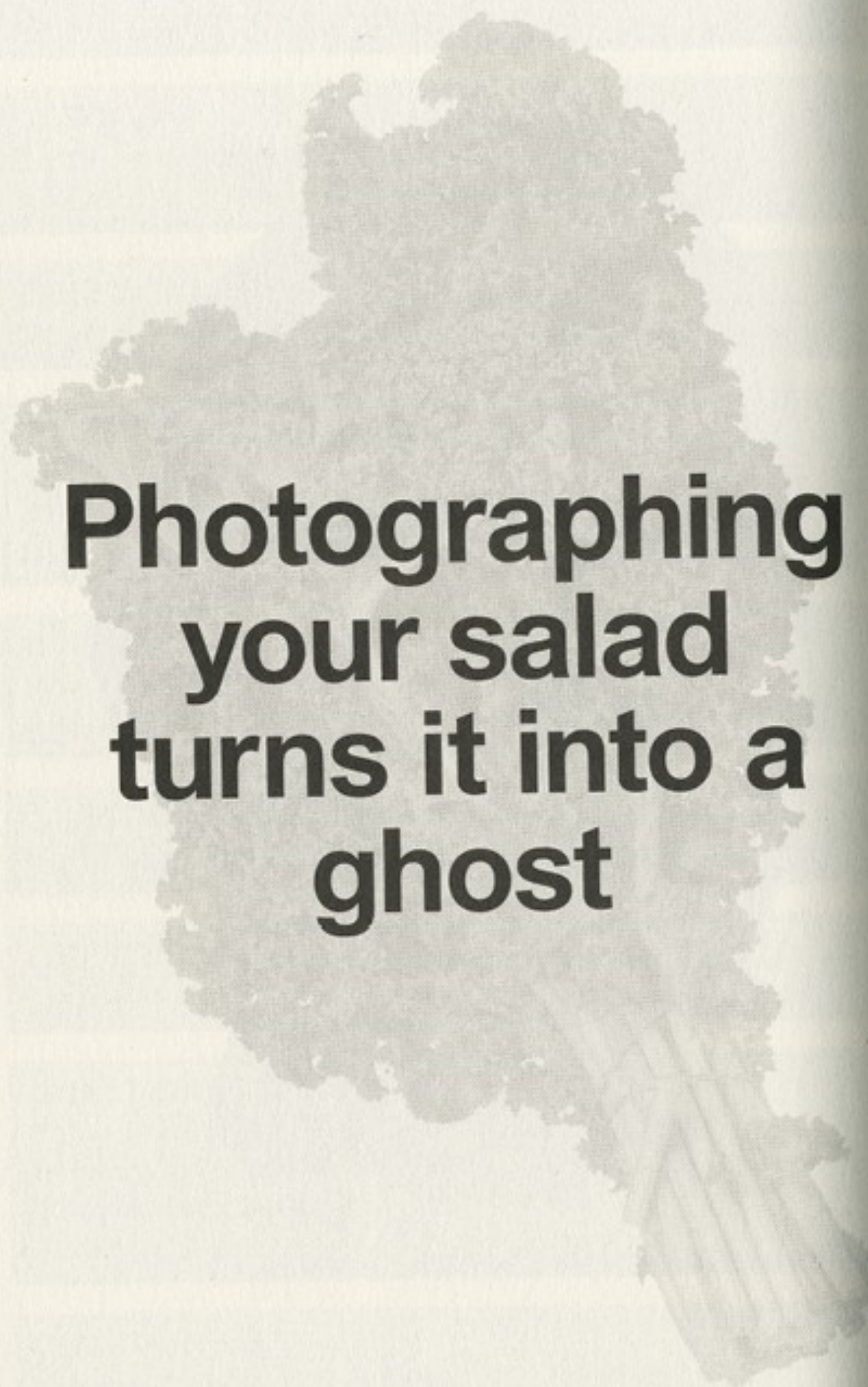
Et vidit deus quod esset bonum
: iumenta et omne reptile terre in ge
e suo. Et vidit deus quod esset bonum
uit. Faciamus hominem ad imaginem
tudinem nostram. et posuit piscibus maris
volantibus celi. et bestiis uniuersis terre
inque reptili quod mouetur in terra. Et creauit
deus hominem ad imaginem et similitudinem
suam: ad imaginem dei creauit illum: masculum
et feminam creauit eos. et benedixitque illis
deus. et ait. Crescite et multiplicamini et replete
terram. et dominamini piscibus maris. et
volantibus celi: et uniuersis animantibus
que mouentur super terram. et ait deus. Ecce
dedi uobis omnem herbam afferentem semen
super terram. et uniuersa ligna que habent
in semetipsis fructum. et sint uobis in escam
ut sint uobis in escam sicut in diebus
antiquis. et uniuersis animalibus terre. et
uniuersis que mouentur in terra. et

Shamon Basar, Douglas
Coupland, and Hans Obrist-
“The Age of Earthquakes”



**A one-way
trip to
Mars
would actually
be okay
if it had
smoking hot
wifi**





**Photographing
your salad
turns it into a
ghost**

**The world
is too
interesting
and
too boring
at the
same time**

... yet it is the feeling of uniqueness
that convinces us we have souls.



**Individualism may,
in fact, be a form
of brain mutation
not evenly spread
throughout the
population.**

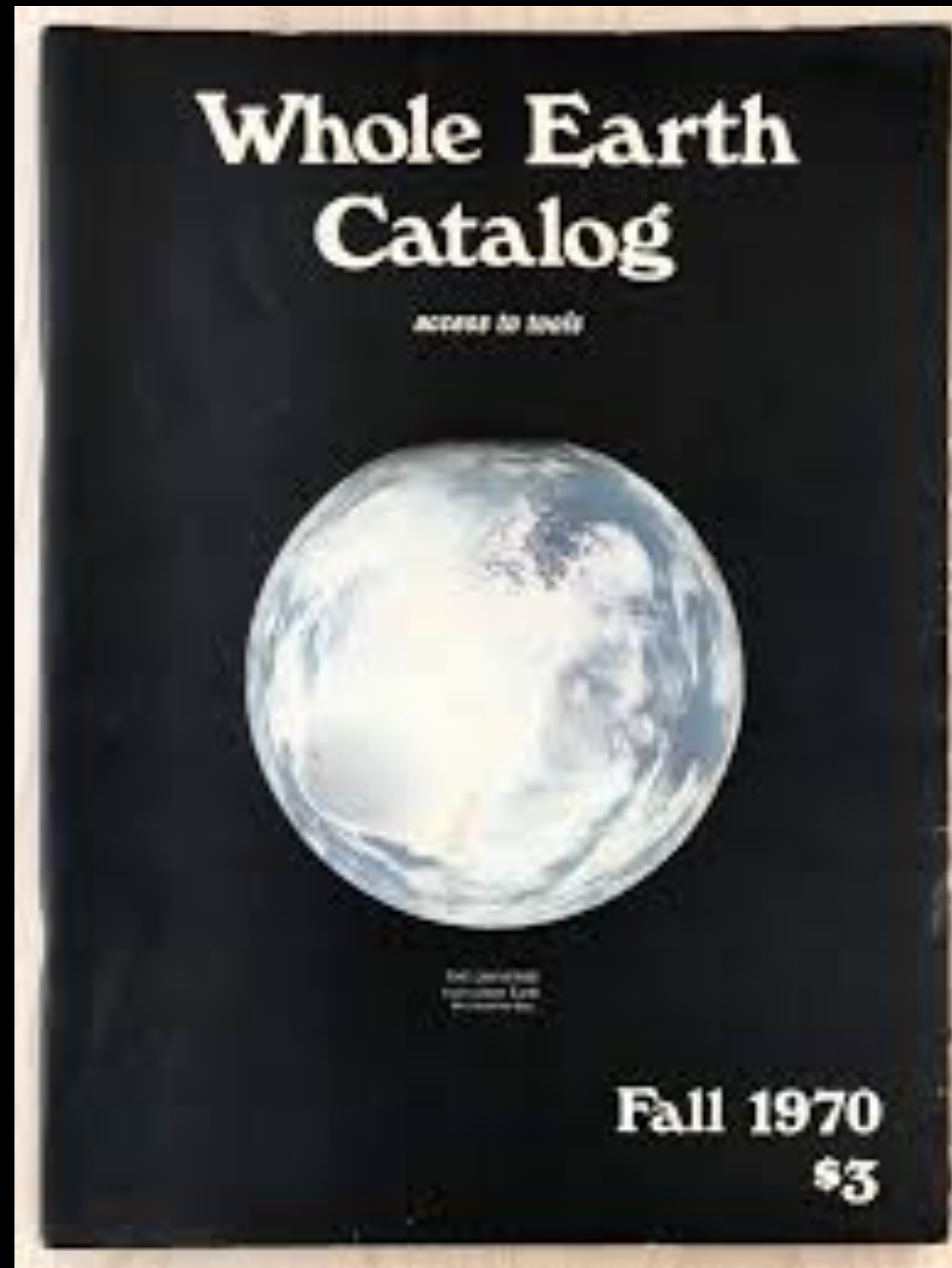
**Many people are
happy to belong
to a group – any
kind of group –
and someone who
doesn't is a threat.**

**Machines
are
increasingly
talking
about
you
behind
your
back**

Technology often favors
horrible people



Stewart Brand - "Whole Earth Catalog"



Shelter and Land Use

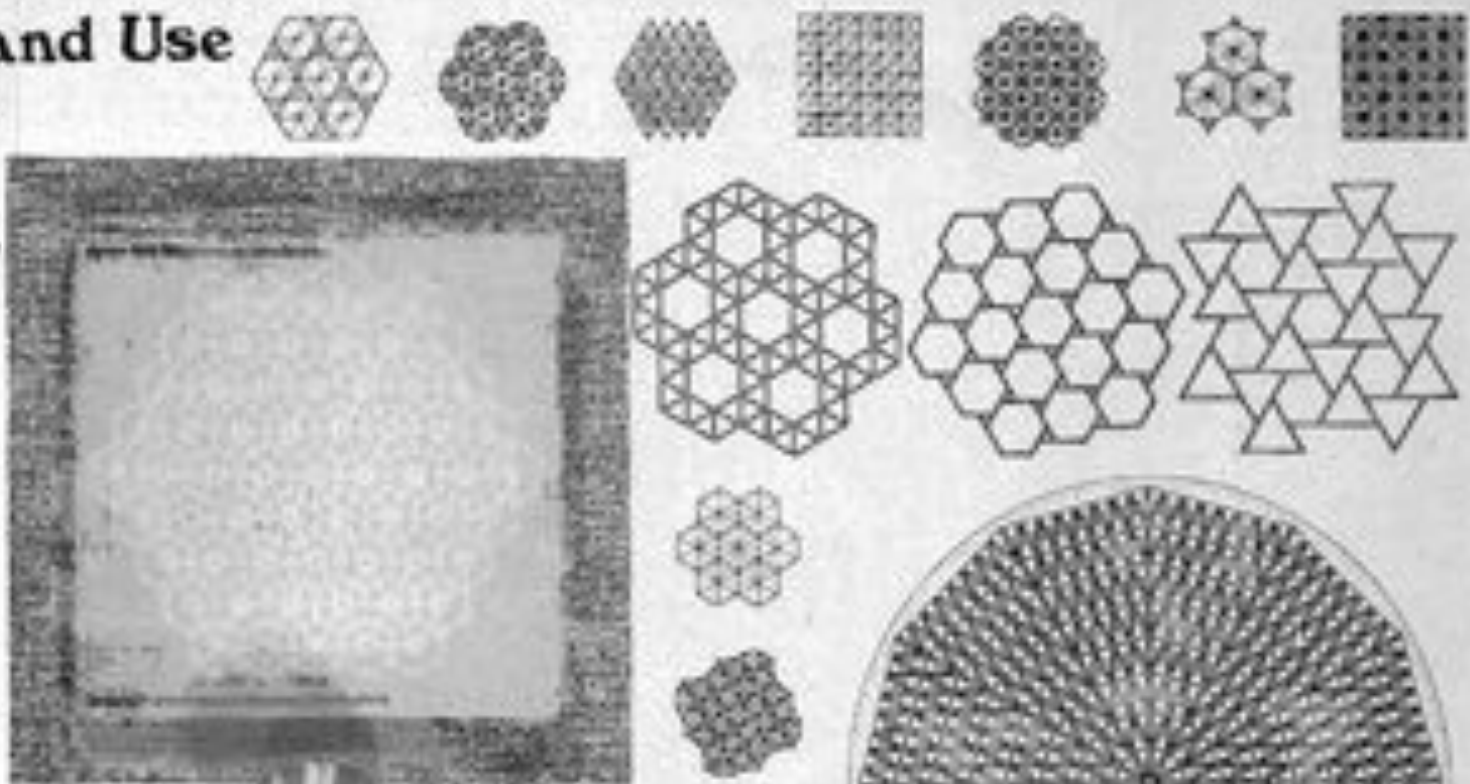
Edited by Lloyd Kahn

Space Grid Structures

A space grid is a means of spanning great distances with little weight, and few intermediate supports. Buckminster Fuller's Geodesic of the Museum of Modern Art in 1959 was 25' wide and spanned 60' one way, 42' another from the column of supports. It was fabricated of 3" pipe.

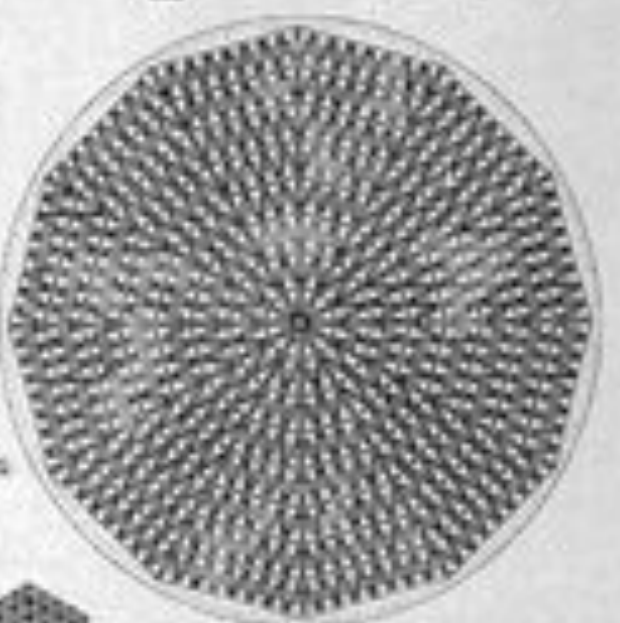
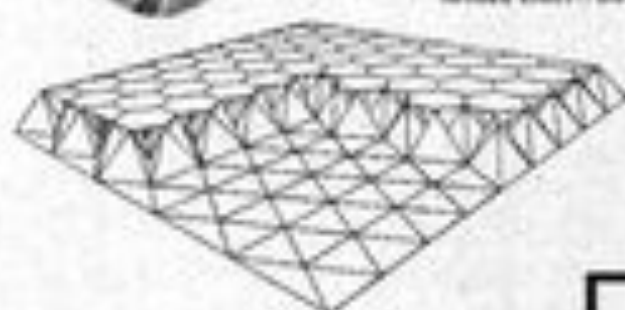
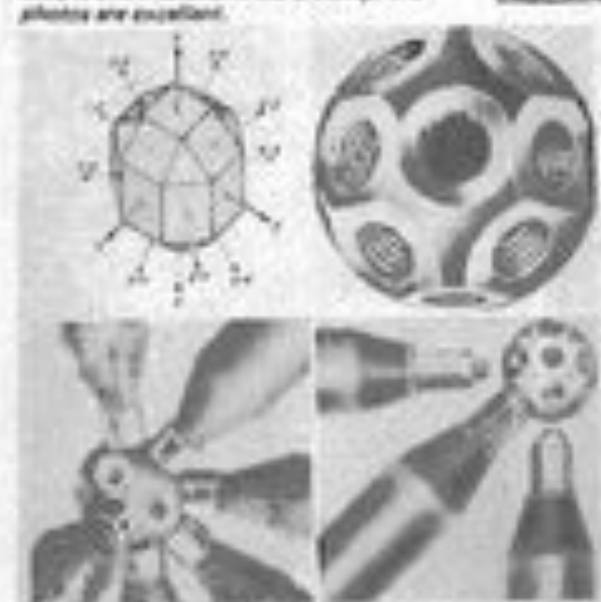
Space grids consist of two parallel planes, forming a floor and ceiling; "web" members in between connect them in such a way that external loads are distributed in all directions.

This book is an exchange of information about what has been done recently in the development of flat space grid structures. There are photos, drawings, models of structures and joints. The three sections of the book deal with flat double-layer space grid structures, stressed skin space grids, and the clear drawings of space grid geometries. Also an extensive bibliography. Very little text; it's not needed as the drawings and photos are excellent.

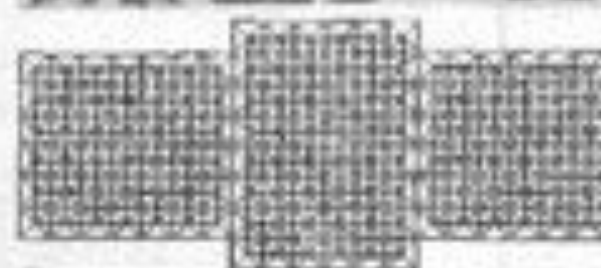


Space Grid Structures

John Berggren
1968, 200 pp.
\$12.50 paperback
From The MIT Press
Cambridge, Mass. 02142
WHOLE EARTH CATALOG



Space Grid Structures



The Dymaxion World of Buckminster Fuller

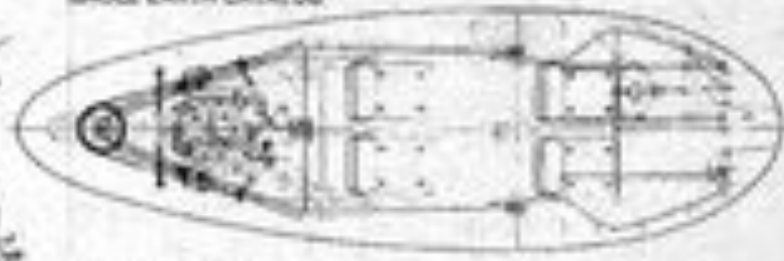
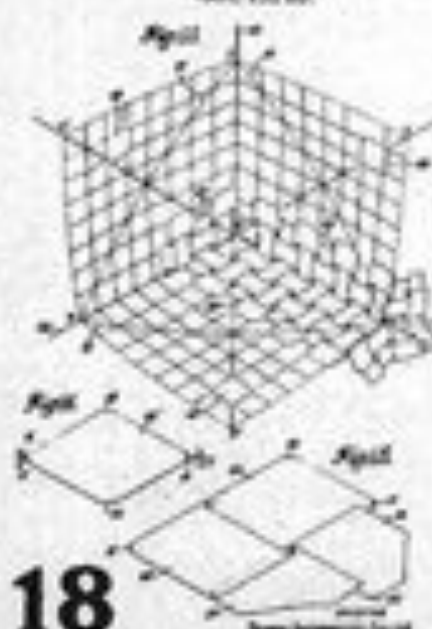
The most graphic of Fuller's books it's about his work, by Robert Markel. Consequently it is the most directly useful if you are picking up on specific projects of his such as domes, geometry, cars, demographic maps and charts, etc.

The Dymaxion World of Buckminster Fuller

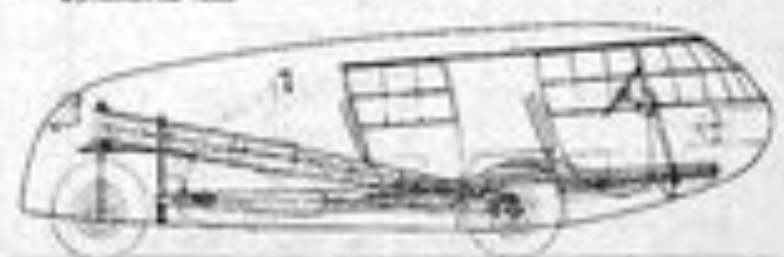
Robert W. Markel
1960, 222 pp.

\$12.50 paperback

From Southern Ill. Univ. Press
6000 West Grand
Carbondale, Illinois 62902
or WHOLE EARTH CATALOG



Dymaxion car 1933



Fuller Sun Dome

The most readily available plans for a geodesic dome. The 25 includes construction license. Designed for swimming pool covers, dome plans specify wood strips and cheap polyethylene film. However you can readily build domes of other materials, such as plywood, parachutes, or car tops. A simple system: ten triangles make the dome; can be used up to about 20' diameter. (Designed by Kim Sabota.)

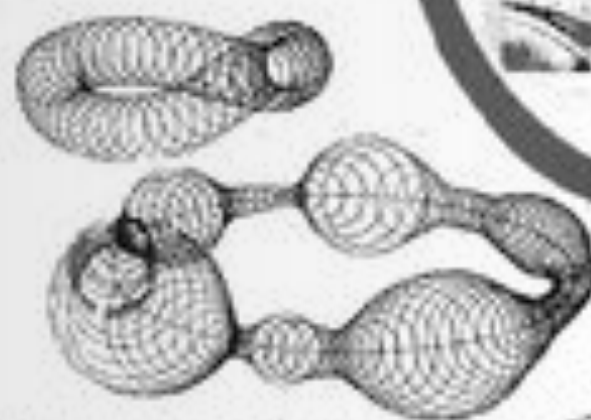
Geodesic Sun Dome
1960
\$5.00 paperback
From Popular Science Monthly
305 Lexington Avenue
New York, N. Y. 10017



Model from Sun Dome plans by Lloyd Kahn

Tensile Structures, Volume One

The only pavilion of Expo 67 more beautiful than Fuller's U.S. Dome was the West German tent, designed by Frei Otto. He is currently the master of structures whose flexible skin is the prime structural element. Volume One of his 2 Volume work is devoted to Pneumatic Structures: Air Hoses, Poles. Every designer we know who's seen this book has commented to giggle and yawn, jump up and down, and launch into enthusiastic endorsement of Otto, design, being a designer, and look at this thing. The book is comprehensive in its field, technically thorough, beautifully presented.



The middle surface of the inside part has a smaller area than the outside, which is not a middle surface. The tensile forces from all other pneumatically stressed members by this characteristically saddle-shaped region. The circle in which the sphere forming the dome are struck need not be in the same plane, nor need the spheres have equal diameters. Here, too, unlimited variations are possible, subject to the general laws of formation, and to those particular to closed forms.



Tensile Structures, Volume Two

Tensile structures is the complete story on tents and cable nets and like volumes one. The entire subject is covered in minute detail. The book is intended to show where the thinking and practice in the subject is at this time in history. There is an overview of the whole field, then specifics on cable, net and membrane structures. Each is thoroughly discussed and illustrated with photographs and drawings although graphics here are not as intriguing as in volume one. The last third of the book contains calculations on load bearing abilities and design. For many readers this will be too technical to understand, much less use. But tensile structures are very exciting at this time, and the book is great for getting people started on experiments and construction. Canvas is a cheap building material. There's a lot to learn here. The forms are very organic, and coverage is complete.

(Reviewed by Jay Soltan.)

Tensile Structures, Vol. Two
Cables, Nets and Membranes

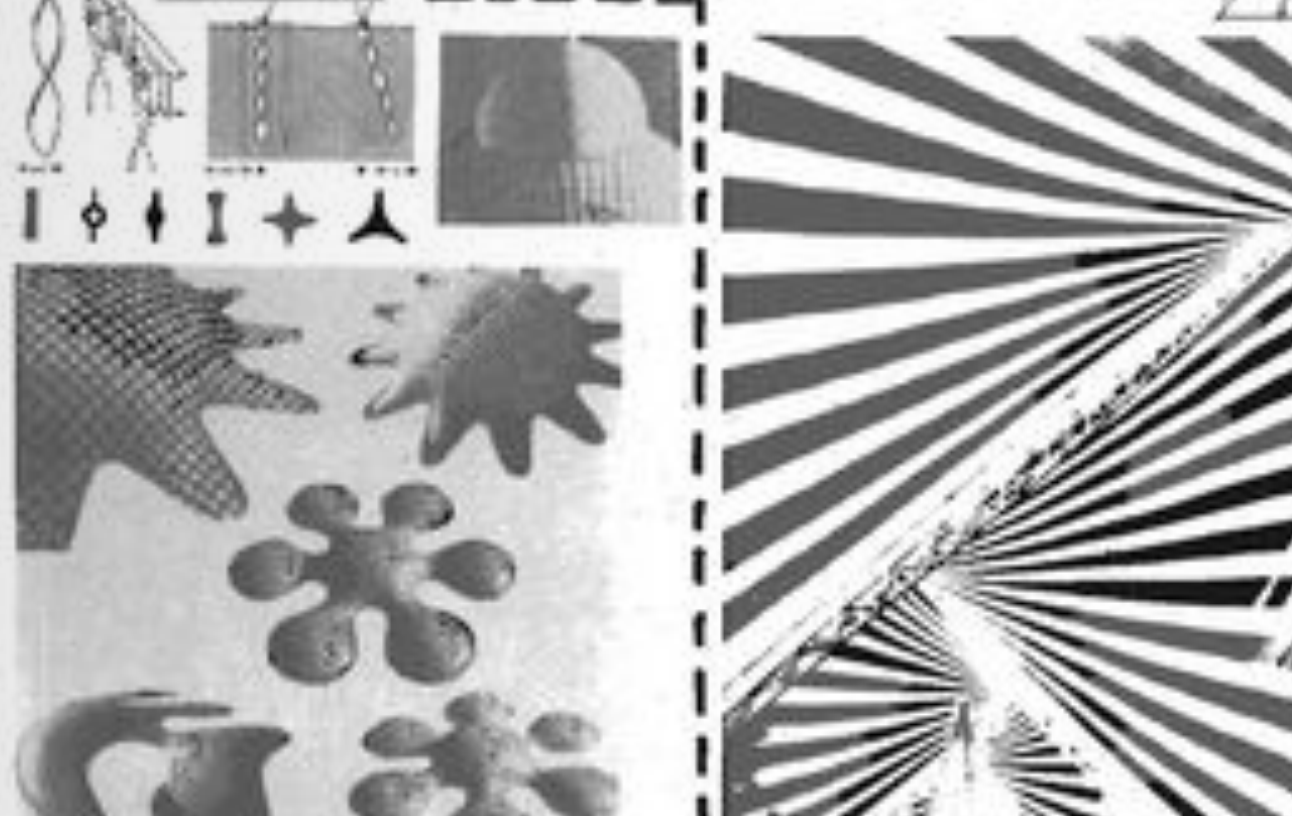
Frei Otto
1968, 171 pp.
\$12.50 paperback

Tensile Structures, Volume One
Pneumatic Structures

Frei Otto
1967, 200 pp.
144 illustrations
\$22.50 paperback

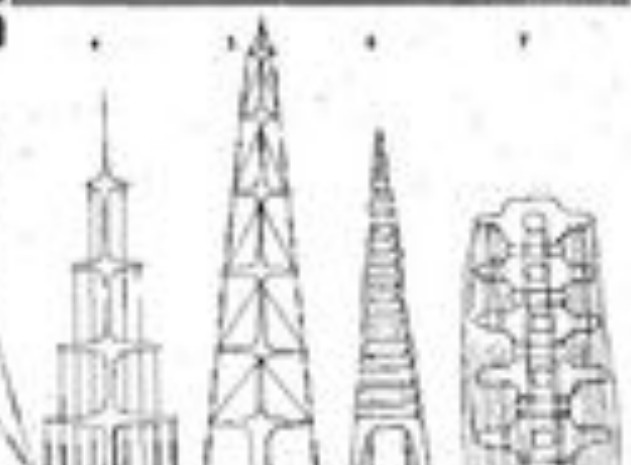
From The MIT Press
60 Ames Street
Cambridge, Mass. 02142
or WHOLE EARTH CATALOG

If two soap bubbles of different diameters from a main bubble (Fig. 10), the diagram is correct. If the membrane stresses are equal, the gas pressure in the smaller bubble is higher than that of the larger bubble. The relationship between the radii r_1, r_2, r_3 is given by:



Experiments were undertaken in the years 1960-64, in which also forms were developed in a flower frame and measured photographically in order to determine their shape.

A soap film can be stretched in any frame consisting of straight or curved components, provided that it forms a closed loop. The film then forms a continuous surface, the frame being subjected to bending.



Domed roofs consist of one-dimensional curved elements subjected to compression and surrounded at all sides by one or two-dimensional tensioned elements. They thus form three-dimensional systems most suitable for mobile structures. Many contemporary designs of high cranes for steel mills are reflections of the same system. An elastic central rod can be bent by varying the lengths of the girders (Fig. 2). For this, all cables must be adjusted with care. This is done by spring-loaded adjustment devices located at the anchoring point. A similar but much more elastic system is shown in Fig. 4. A thin elastic central steel cable continues connected to the ground by means of cables.

In using cables of the spine of a vertebra (Fig. 2) is a three-dimensional system, approximately as shown in Fig. 4. A multiple articulated, highly flexible elastic rod, capable of bearing all large compressive forces, is surrounded by a tension-loaded system consisting of many members, which secure the central rod against buckling and bending, while ensuring its complete mobility.





DOME \$ 1.00

COOKBOOK

by Steve Baer

4th printing - July 1970

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[https://www.moma.org/interactives/exhibitions/
2011/AccessToTools/](https://www.moma.org/interactives/exhibitions/2011/AccessToTools/)

Greg Fong, Sean Monahan, Chris Sherron,
Emily Segal, and Dena Yago - "K-Hole"

H O L
K
S Y O H



HACK YOUR
LIZARD BRAIN

K-HOLE OF THE FUTURE COMMISSIONED K-HOLE OF THE PAST TO CREATE A DOSSIER FOR THE PRESENT

CASE STUDY #1: POTTERMORE

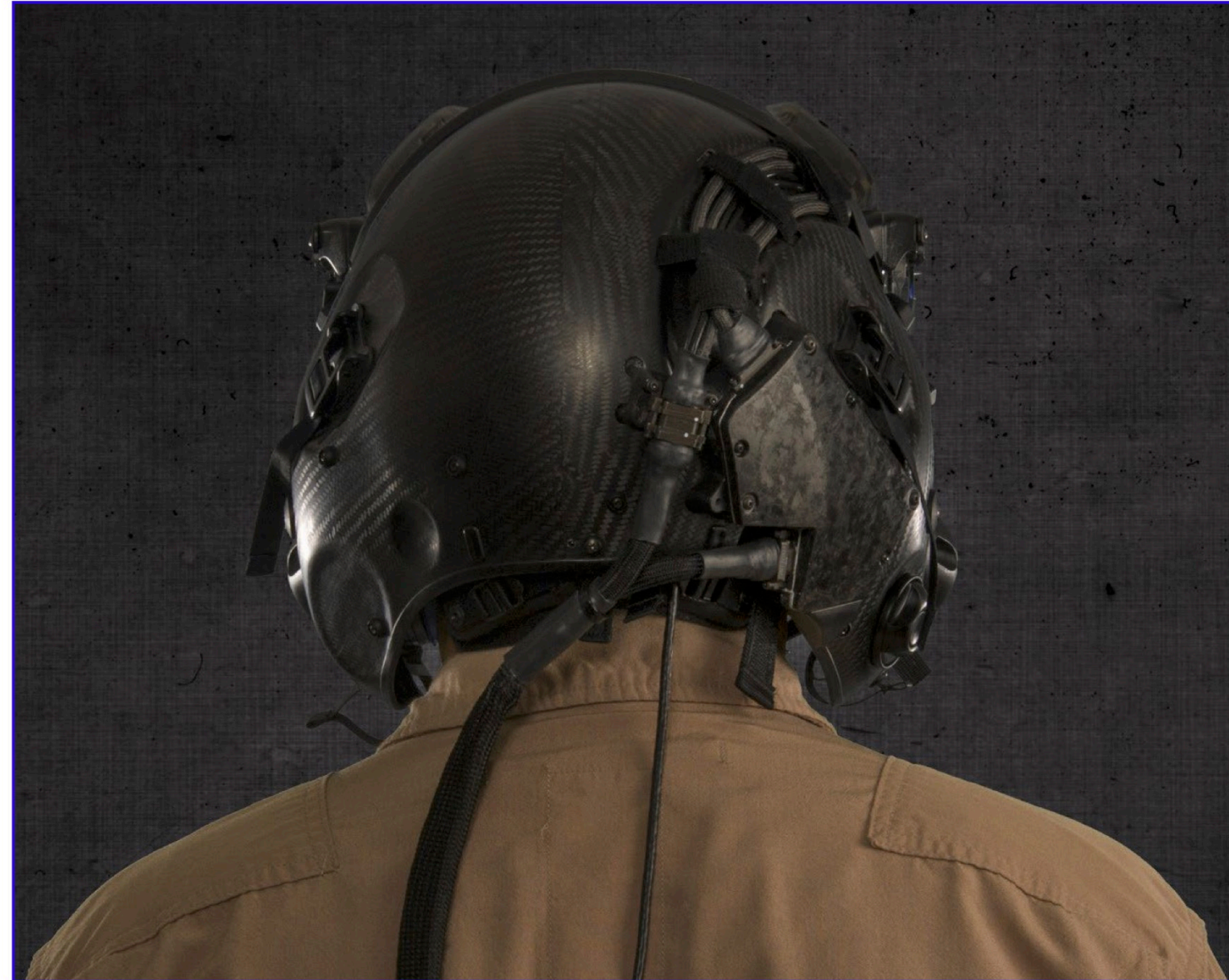
A major side-effect of the Harry Potter franchise's spell is providing everyone with a new means of analyzing the internal constitution of the people around them: the Sorting Hat. A device that plops Hogwarts frosh into one of the four houses, the Sorting Hat answers the question every

CASE STUDY #2: BB GONE ROGUE



The proliferation of **BB** cream in the inter
began with the inter

DARK ARTS COMPETENCIES



A. Founder Mode

The startup founder, the Kool-Aid mixer, poor-but-rich (a collapsed masculine binary). Founders turn ambient anxiety *what is the future, how will we make money, what's a good investment, etc.* into specific fear in the forms of capital and employee misery (see **K-HOLE #3, the Brand Anxiety Matrix). Founders often create real, tangible things that are worse than the anxiety they're responding to in the first place.**

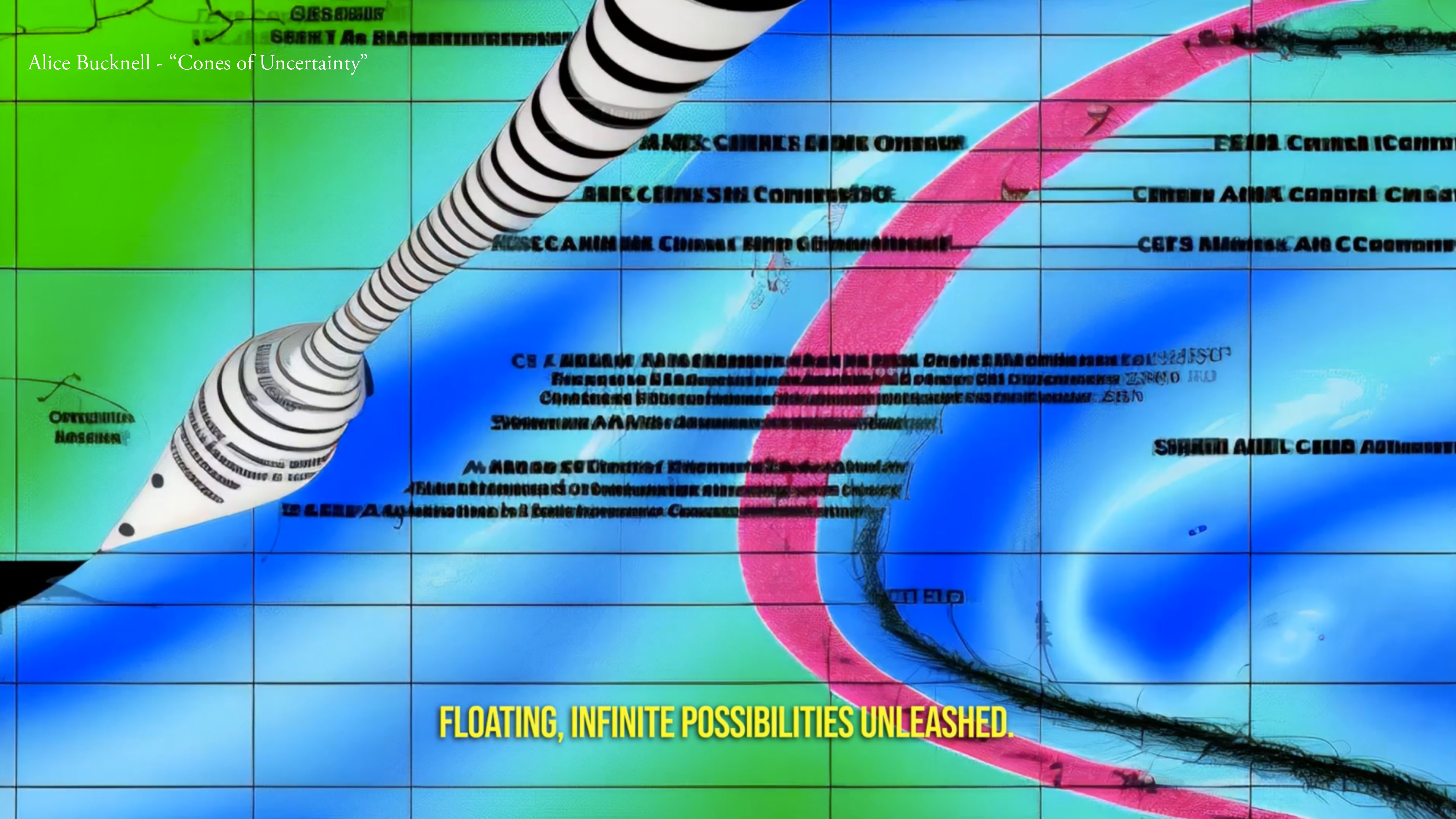


B. Forecaster Mode

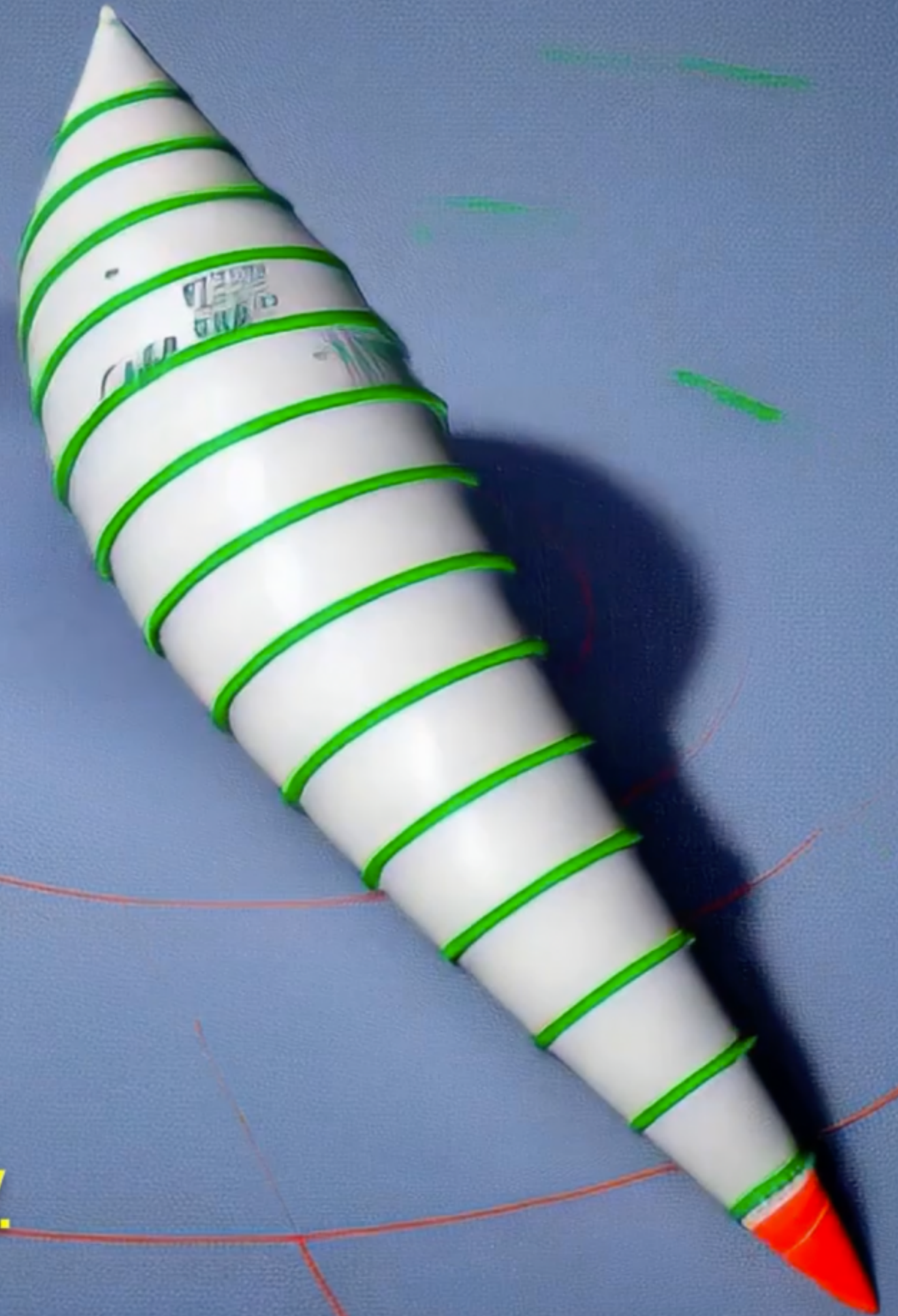
À la Cayce Pollard, this is someone who is 'early' on her time signature, who can see or sense the future or correctly intuit the knowledge of crowds. This person "knows," and knows early. She knows without knowing how she knows. This person modulates time (see K-HOLE #2, Prolastination). But seeing the future ≠ changing it. Networks of power and influence remain the same.

<http://khole.net/>

Alice Bucknell - "Cones of Uncertainty"



FLOATING, INFINITE POSSIBILITIES UNLEASHED.



THE SEASON'S CONE OF UNCERTAINTY.

Time based media:

Short films, trailers

Motion graphics

Music films

Docs, hybrid docs

World

Erik Wernquist - "Wonderers"



<https://vimeo.com/108650530>

Ash Thorpe - "None"

<https://vimeo.com/184785893>

Jeremy Comte: "Fauve"

<https://vimeo.com/293033666>



“Bad Batch” - intro

[https://www.netflix.com/watch/80099204?
source=35](https://www.netflix.com/watch/80099204?source=35)



<https://www.lucymcrae.net/futurekin>



Lucy McRae - "Swallowable Parfum"

<https://vimeo.com/83456125>



Liam Young - "Planet City"

<https://www.youtube.com/watch?v=AX4ewS-YIbA>



Jennifer Chen + Students - "Earth Machine"

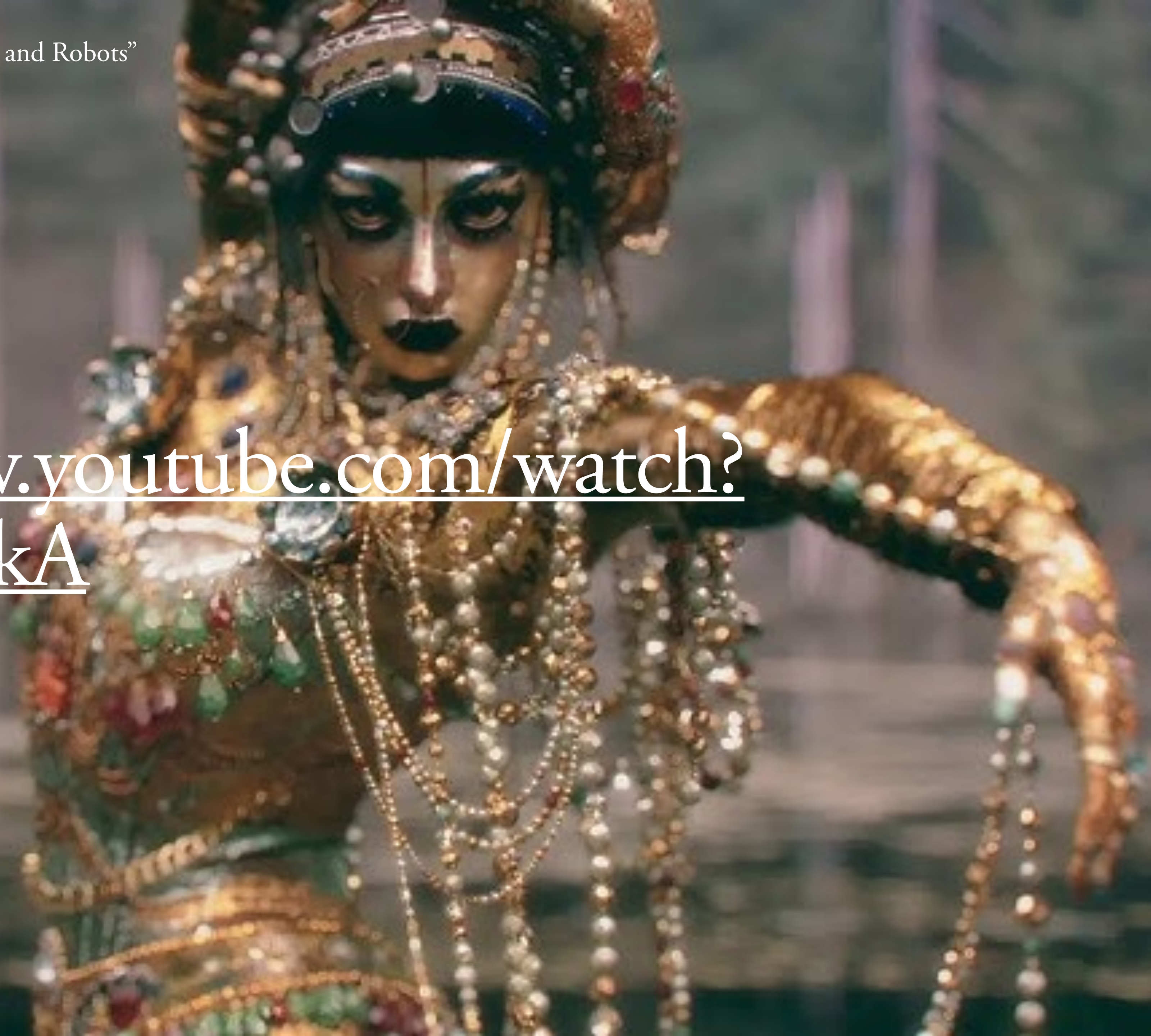
<https://vimeo.com/779007902>



Character

Alberto Mielgo - "Jibaro" on "Love, Death, and Robots"

[https://www.youtube.com/watch?
v=fpnfloal4kA](https://www.youtube.com/watch?v=fpnfloal4kA)



Alberto Mielgo - "The Witness" on "Love, Death, and Robots"

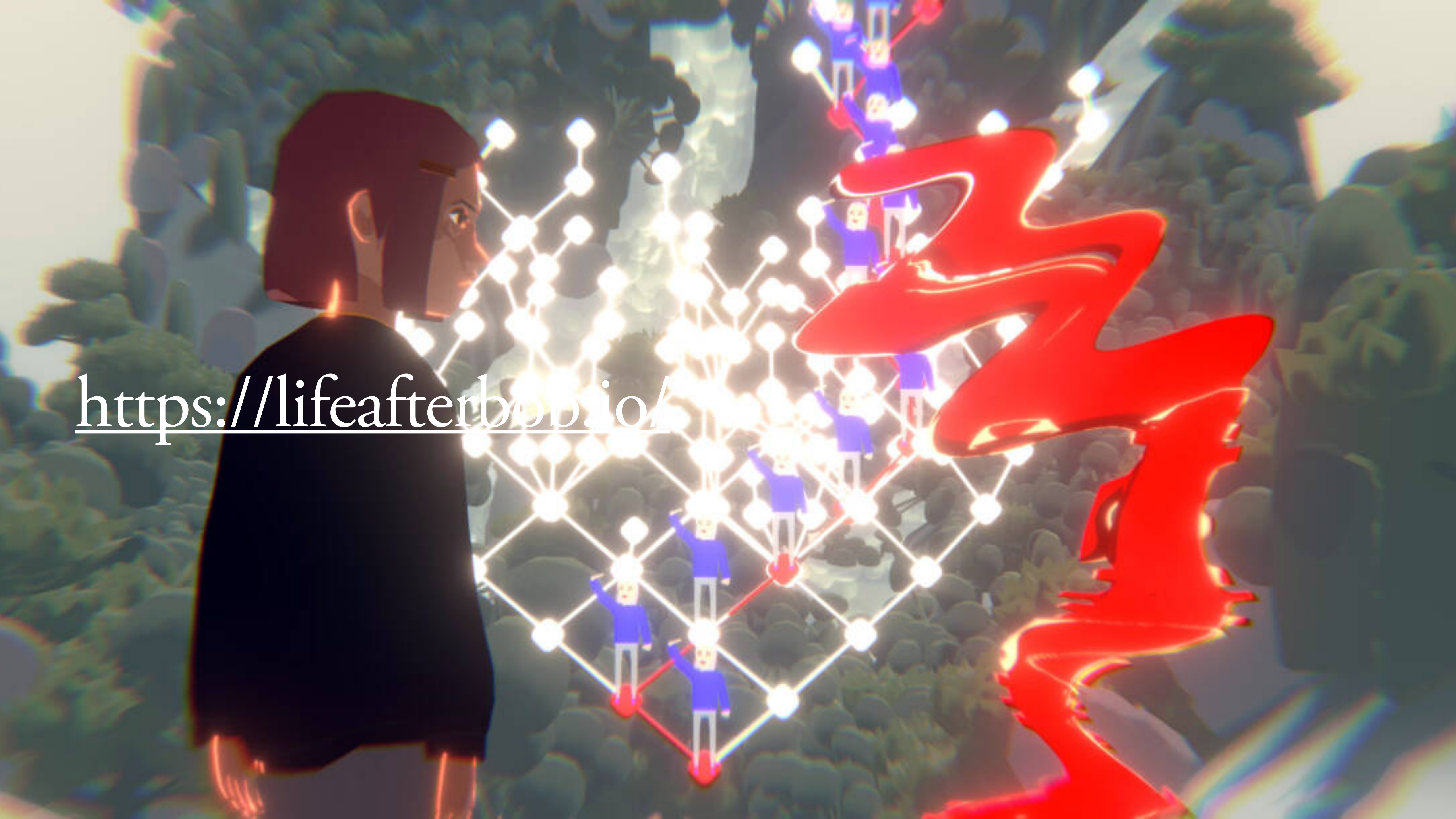
[https://www.youtube.com/watch?
v=xaD3oQRzxhw](https://www.youtube.com/watch?v=xaD3oQRzxhw)



Eran Hilleli (Hornet Production Co.) - "Style Frames"

<https://vimeo.com/190554624>

<https://lifeafterbob.io/>



“Sunspring” Ross Goodwin + Oscar Sharp

[https://www.youtube.com/watch?
v=LY7x2Ihqjmc](https://www.youtube.com/watch?v=LY7x2Ihqjmc)

Story

Don Hertzfeldt - "World of Tomorrow"



[https://www.youtube.com/watch?
v=4PUIxEWmsvI](https://www.youtube.com/watch?v=4PUIxEWmsvI)

Pendleton Ward - "Midnight gospel" on Netflix

<https://www.youtube.com/watch?v=DyX7FR8IIAk>



“Some Kind of Heaven”

<https://www.youtube.com/watch?v=BHVTQjSGjHU>



Till Nowak - "The Centrifuge Brain Project"

[https://www.youtube.com/watch?
v=RVeHxUVkW4w](https://www.youtube.com/watch?v=RVeHxUVkW4w)



Music

Melanie Martinez - "K-12"

<https://www.youtube.com/watch?v=2HtaIvb61Uk>

A woman with her hair in a bun stands in a room with ornate, light blue walls and arched windows with red curtains. She is wearing a large, multi-layered cake that reaches up to her chest. The cake is decorated with various patterns, including a row of red circles and floral motifs. The room is filled with soft, warm light, and there are decorative tables with vases of flowers in the background.

Kordae Jatafa Henry: "Earth Mother Sky Father Trailer"

<https://www.youtube.com/watch?v=RgZmXKklEfM>



Andrew Thomas Huang - "SOLIPSIST"

<https://vimeo.com/37848135>



Andrew Thomas Huang - FKA Twigs - "Cellophane"

[https://www.youtube.com/watch?
v=YkLjqFpBh84](https://www.youtube.com/watch?v=YkLjqFpBh84)



3D:

Sculpture / installation art

Immersive environments

VR

[https://www.instagram.com/
isabellealbuquerque/?hl=en](https://www.instagram.com/isabellealbuquerque/?hl=en)



LucyandBart (Lucy McRae + Bart Hess)















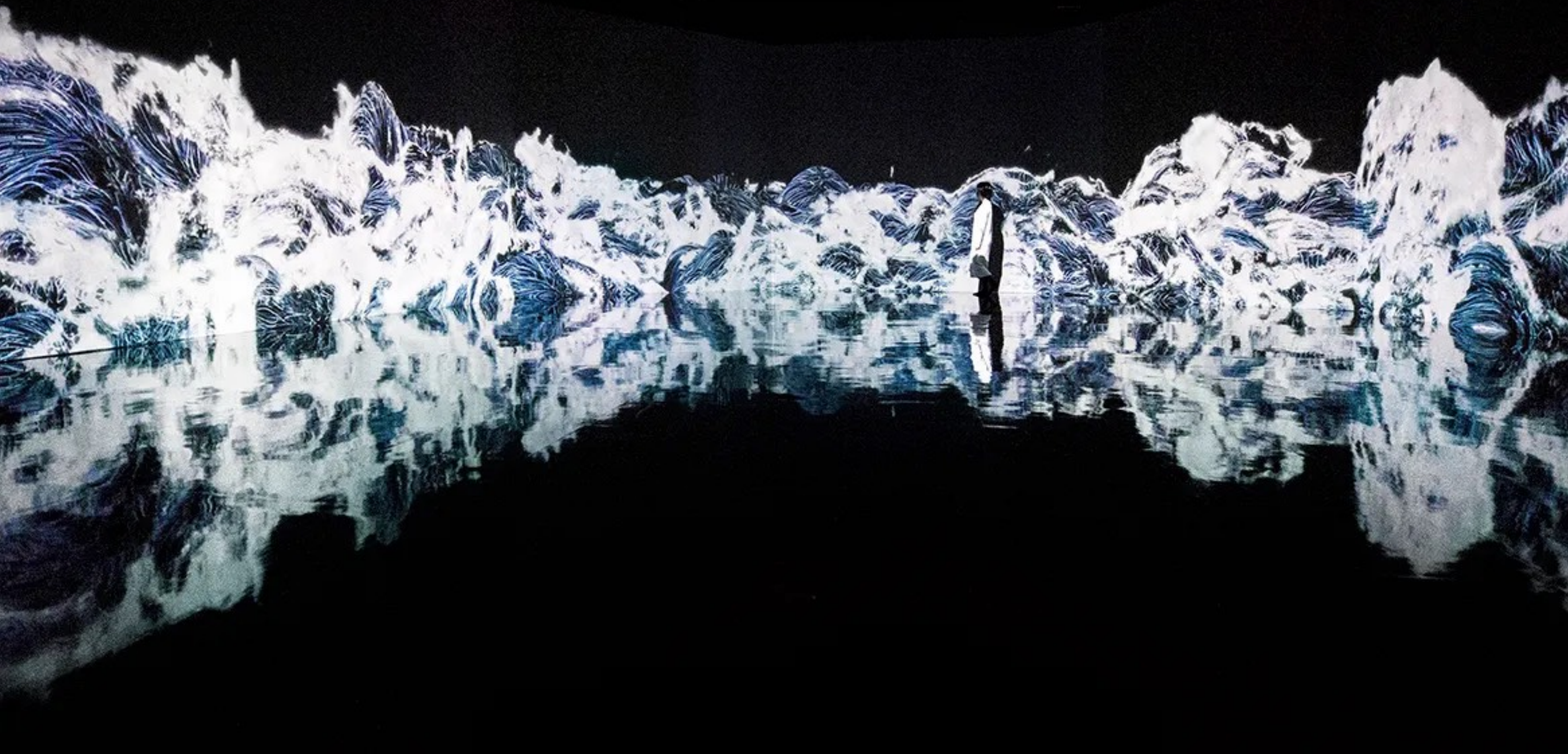
Liam Young - "Planet City"



Daide Quayola - "Unfinished Sculptures"









Marshmallow Laser Feast -
“In the Eyes of the Animal”







Pierre Hyughe - "Variants"





02_Worldbuilding Techniques

Designer (Artist) as Worldbuilder

Motivations

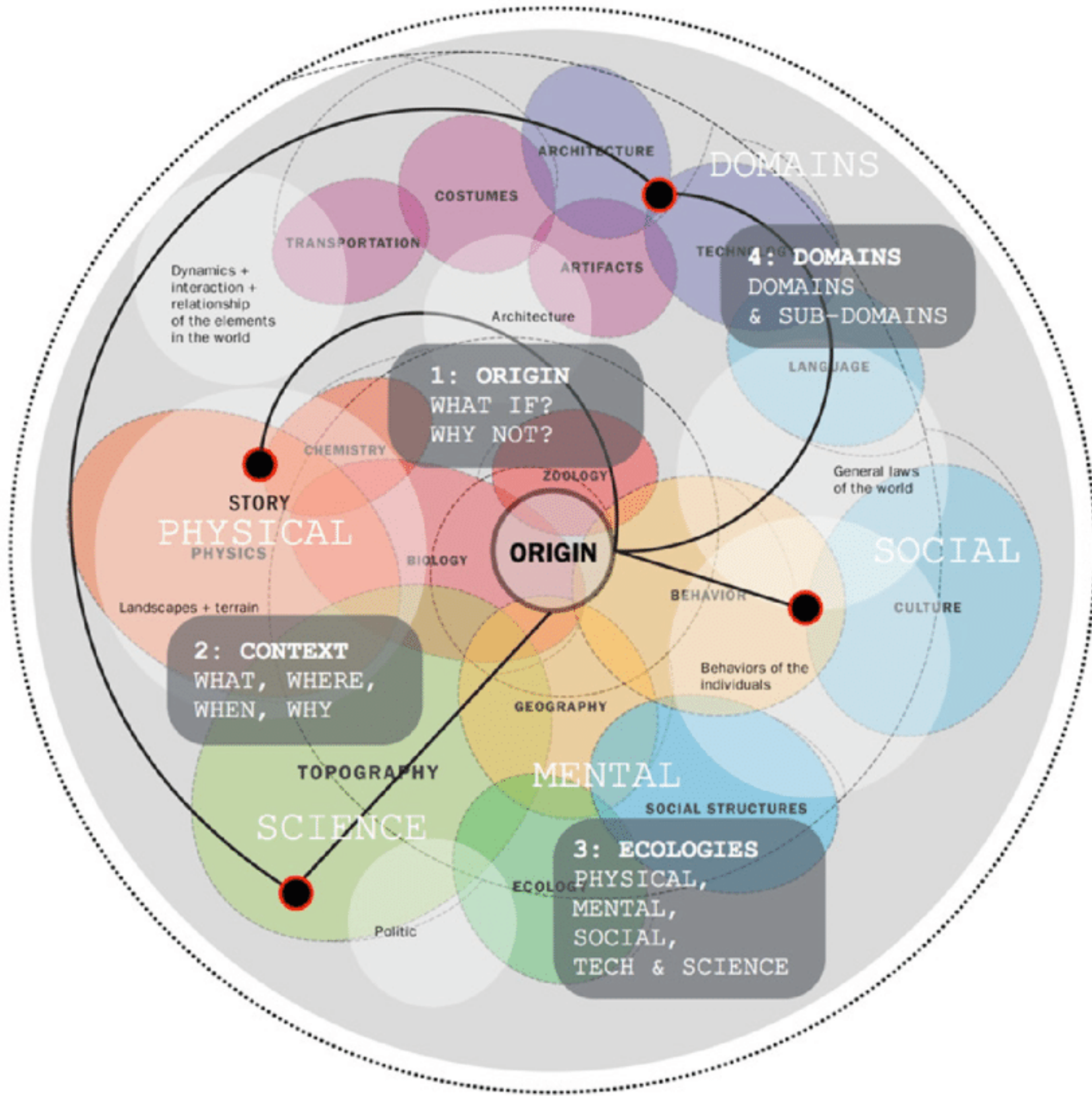
- Storytelling from spatial/visual perspective
- Exploring alternative worlds is a tool for understanding our world
- Ideas about possible futures allow us to think about changes we might want to make now
- Exaggerations of the present/ references to reality allow viewers to engage more easily with speculations

Starting points

- Ask questions: What am I interested in?
What do I want to say?
What if _____ ?
What can I say uniquely / differently than others?
I'm interested in telling a story about _____ .
What are my values?

Developing ideas : surveying

- Conduct research: What's happening in the world?
 What do I find interesting?
 What headlines catch my attention?
 What else can I learn about _____ ?
 Why do I want to share my ideas about _____ ?



Developing ideas : concept art / concept design

- After conducting research and developing basis of concept, begin with concept design:

Kitbashing (physical)

Kitbashing (digital/3d)

Painting (physical or digital)

Photobashing / collage

Photoshoots / recon

Syd Mead - "Bladerunner" concept







Yang Yongliang

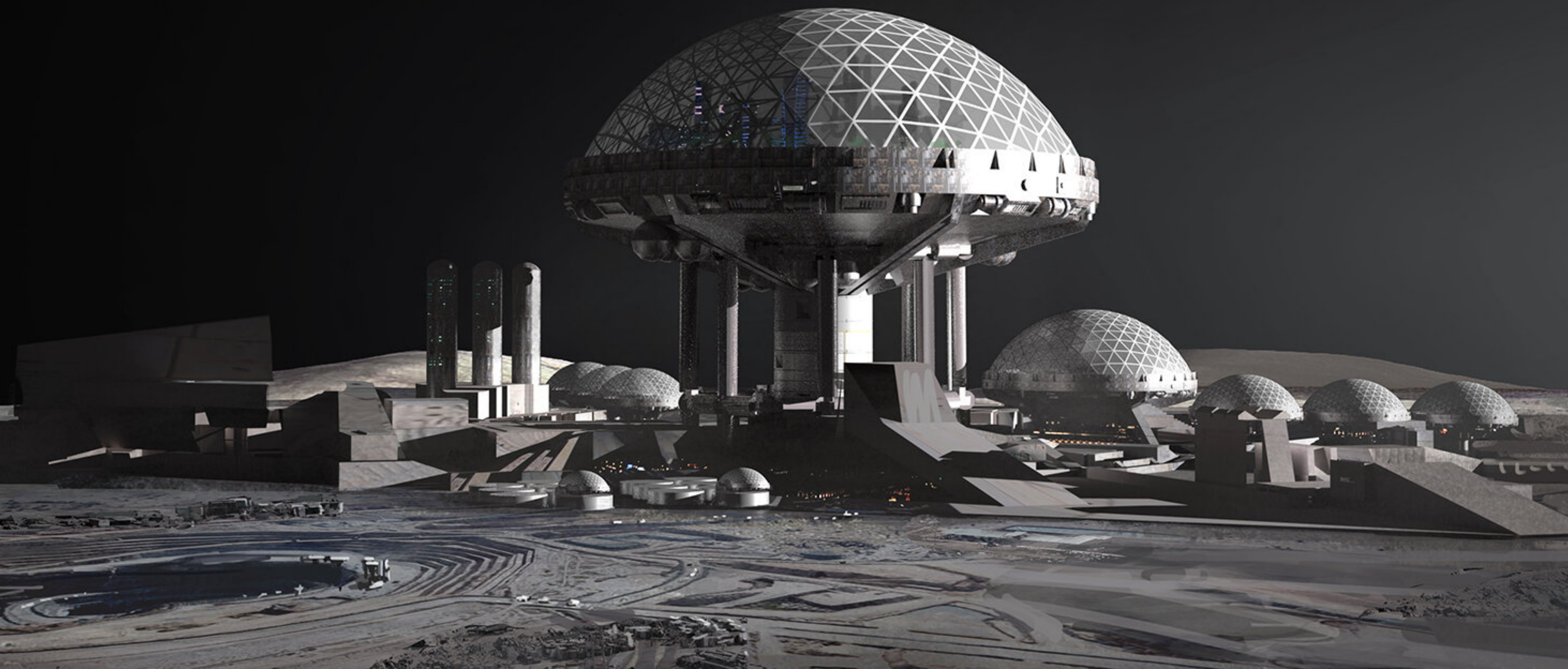


H.R. Giger - "Dune" concept art





Finnian MacManus - concept art for "Ad Astra"





Christian Lorenz Scheurer - concept art for "Malificent 2"





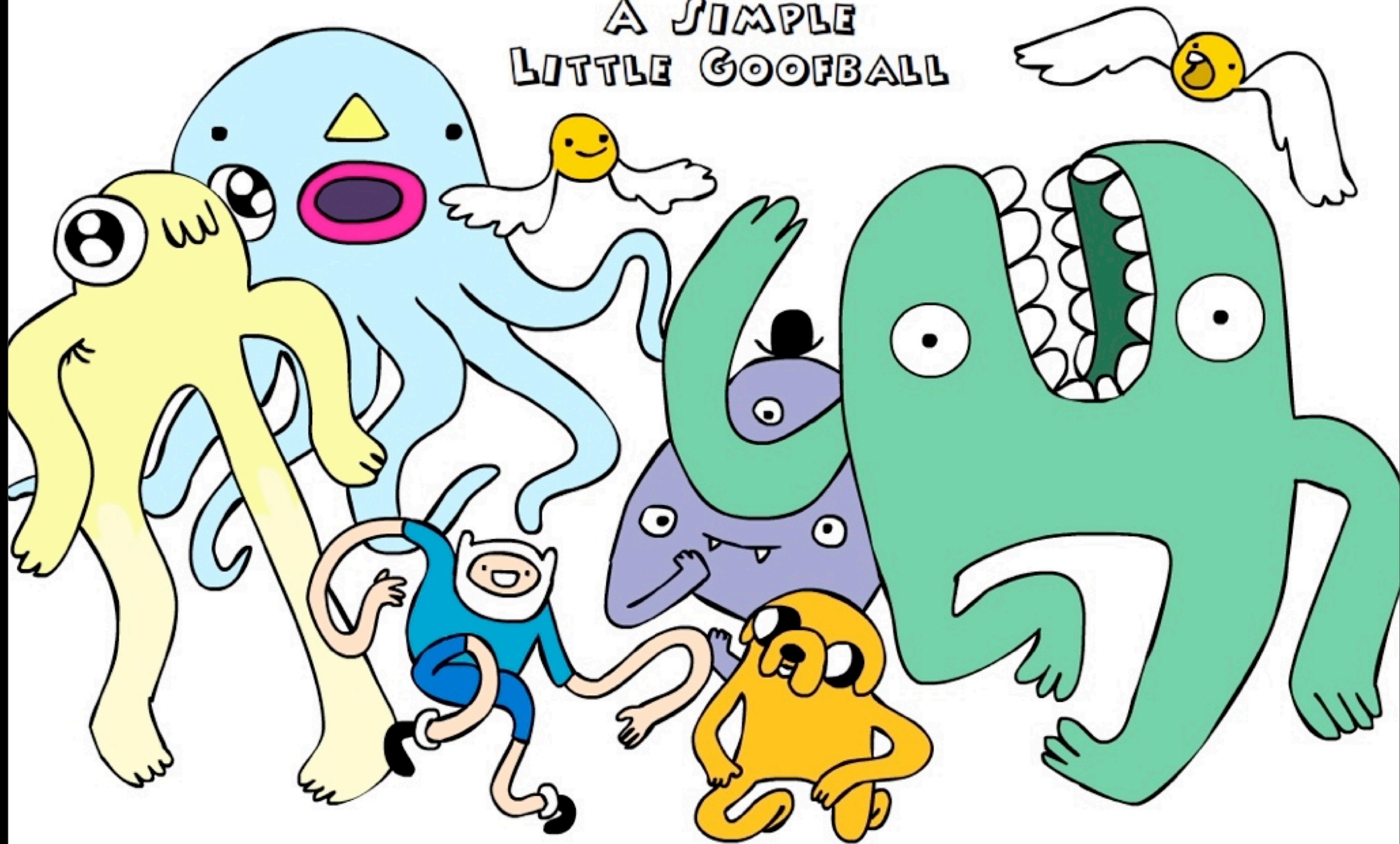




Adventure
Time

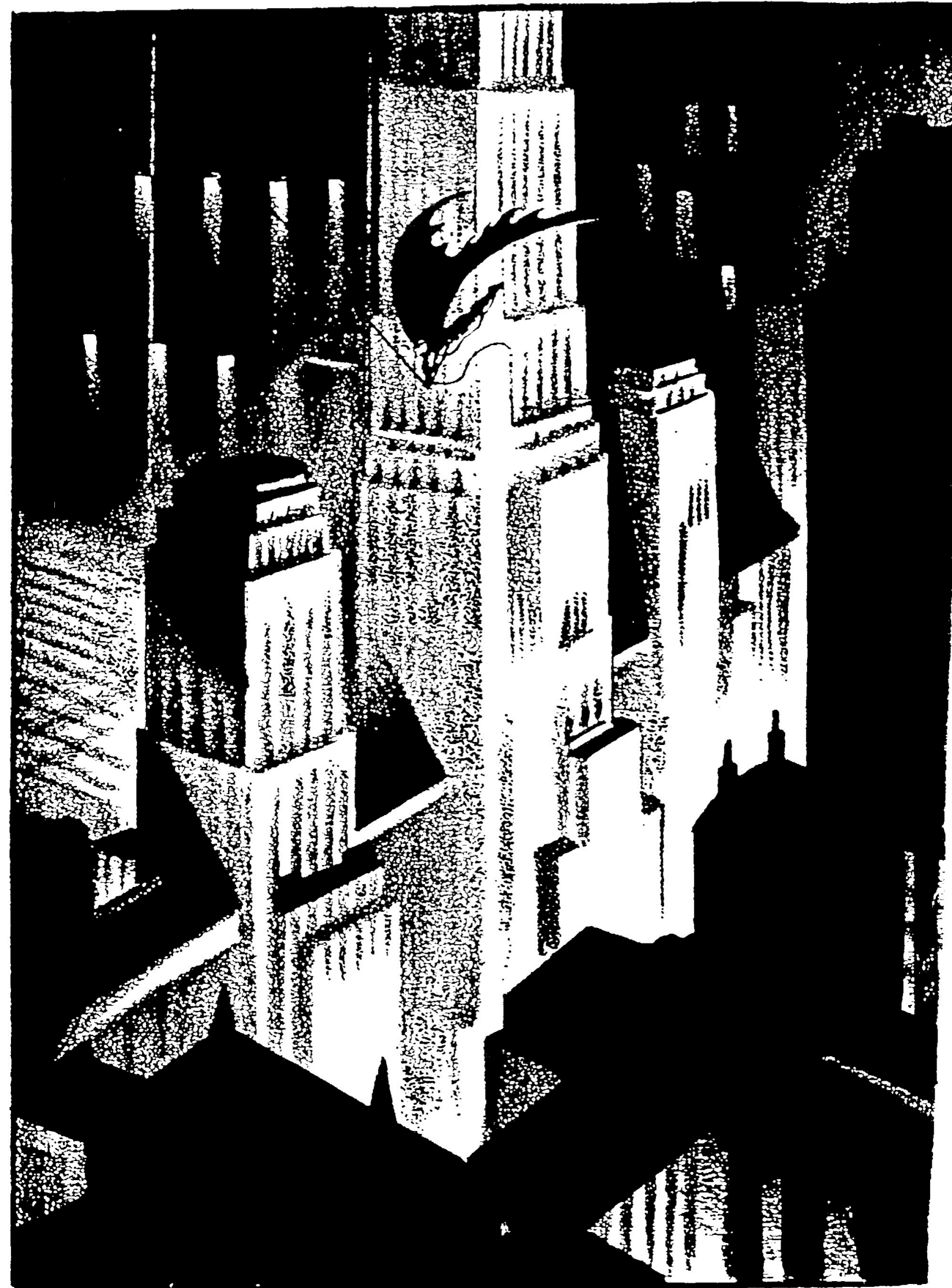


A SIMPLE LITTLE GOOFBALL



Finn takes pleasure in all the standard kid business like making up songs and crashing monster dance parties. And when evil isn't running amok? Finn is happy to spend those carefree moments jumping on rocks, rolling around in the grass or exploring his favorite adventure spots.

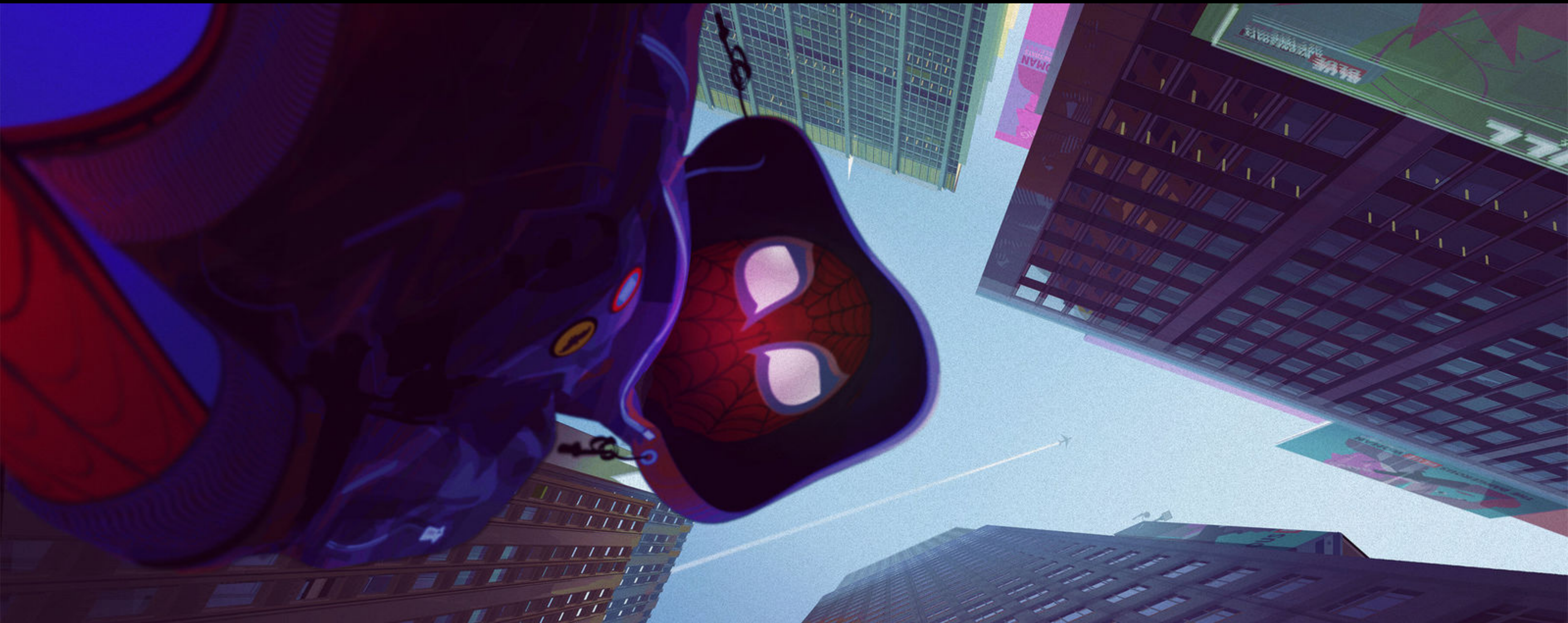
Concept art from "Batman
Writers Guide"





ALL RIGHTS RESERVED. © 1987 DC COMICS INC. ALL RIGHTS RESERVED.

Concept art from "Into the SpiderVerse" by Alberto Mielgo



SUDDENLY, SUMMONING EVERY REMAINING BIT OF STRENGTH IN HIS AMAZINGLY POWERFUL BODY, THE SPIDER-MAN EXERTS ONE LAST MIGHTY EFFORT AND FLIPS OVER !!!



.com

W

BACK

BACK

THE DANGEROUS BLUE WOMAN ONLY ON NY

reder

?!?

New York City Bus
M3T

MTA
+transportation

SAFETY'S OUR GOAL
How Are We Doing???
CALL 511

THIS BUS RESPECT CYCLIST

WARNING WIDE TURNS

SUS
SIS
BAC



PHOW!!



KICK

miles

Concept art from "Minority Report" by Alex McDowell



Jason Allen's A.I.-generated work, "Théâtre D'opéra Spatial"

An A.I.-Generated Picture Won an Art Prize. Artists Aren't Happy.

"I won, and I didn't break any rules," the artwork's creator says.



Developing ideas : pitching / pitch decks

- Pitch decks are a way to concisely present your idea / proposal for a project
- Pitch decks should present the elements of the project simply and without “fluff”:

What’s the story? Why should we care? Why does the story need to be told? (Paragraph with art)

What is the environment? Who are the characters? (Concept art / references)

Who is the project team? Stakeholders? (Bios)

(Examples of pitch decks)

Developing a project (simplified)

- Ideation / research / pitching
- Concept art / design
- Story development + storyboarding / shot list + test shots
- Pre-production (set design, props, previs or layouts - physical or digital)
- Production
- Post-production (editing, vfx, etc)

Rick and Morty Storyboard Art





[as]

PROPERTY OF ADULT SWIM

Any press or reposting requests must
be directed to Adult Swim for approval.

<https://vimeo.com/585389844>



“Inside the Animation” - Zima Blue

https://www.youtube.com/watch?v=IMcZ7_MeAjA



<https://www.youtube.com/watch?v=gQ8noORAJuc>



Thanks :)

A dense field of green plants with small pink and purple flowers. The text 'studio@breannabrowning.com' is overlaid in white, underlined, centered horizontally.

studio@breannabrowning.com