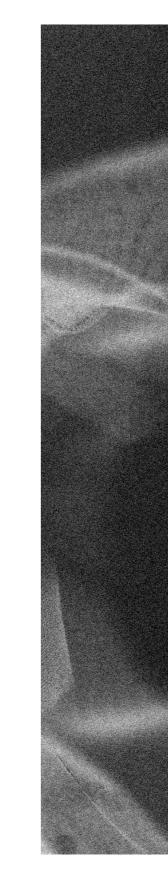
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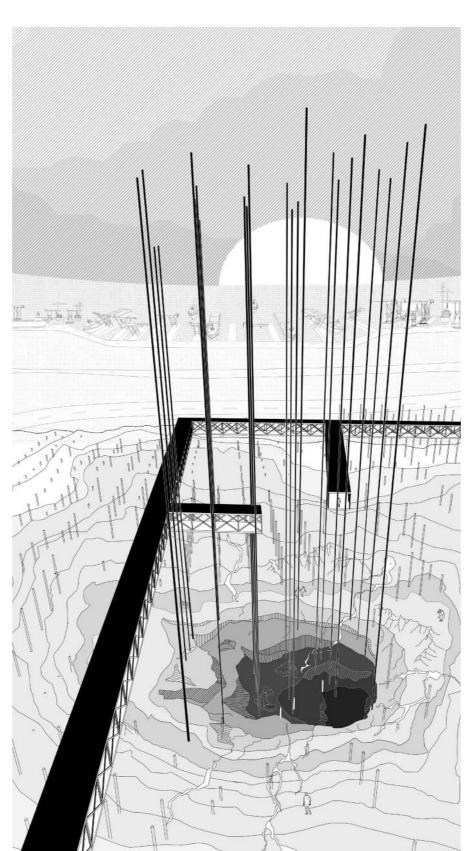
GSAPP 2022 MSADD yg2812

THE VIOLENCE IN THE AIR

GSAPP FALL 2021

Professor: Nahyun Hwang n@nhdm.org



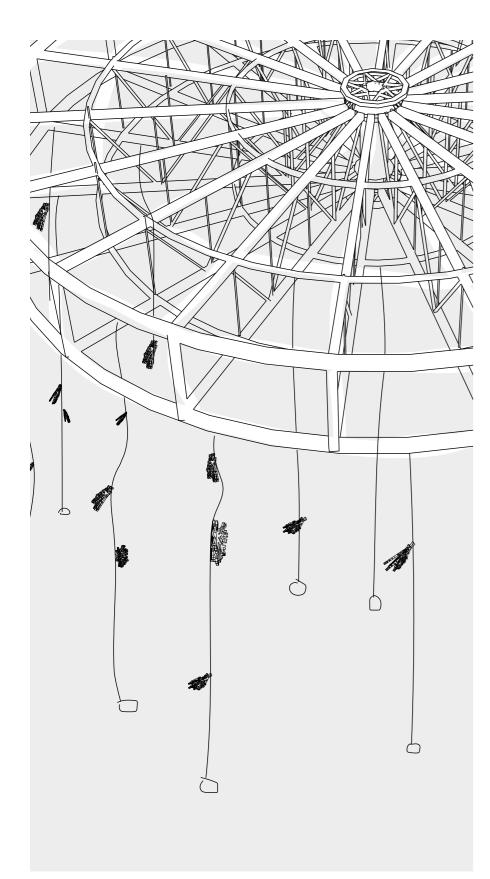


01

THE CORAL ARK

GSAPP SUMMER 2021

Professor: Yussef Agbo-Ola gsapp.aopea.olaniyi@gmail.com

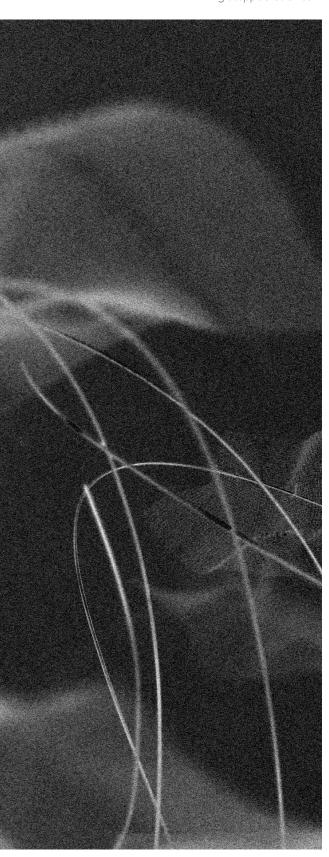


03

TWINNING 双

GSAPP SPRING 2022

Professor: Ada Tolla & Giuseppe Lignano ada@lot-ek.com giuseppe@lot-ek.com



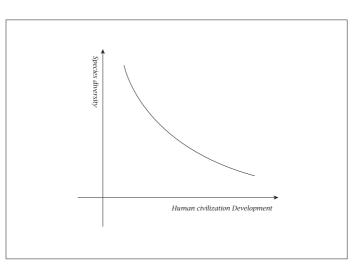
01 FINDING BALANCE IN CONSTANT CHANGE : THE CORAL ARK

GSAPP SUMMER 2021

HAI NAN, CHINA

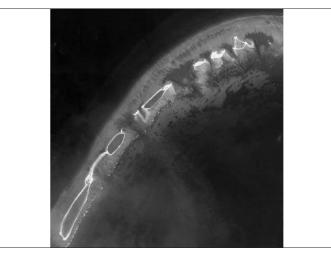
"Ocean warming and the occurrence of heat waves will increase in frequency and intensity over the coming decades and we need to consider rather unconventional solutions to protect and sustain coral reefs."

---Yvonne Sawall, Assistant Scientist, Bermuda Institute of Ocean Sciences (BIOS)

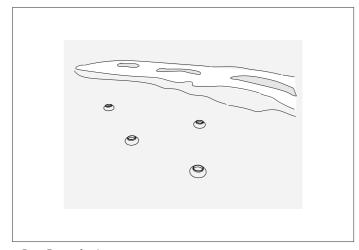


Part 1 decay

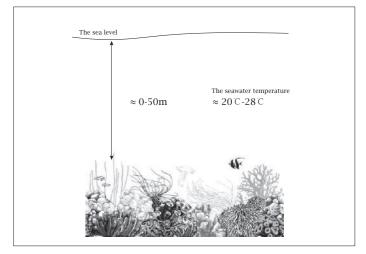




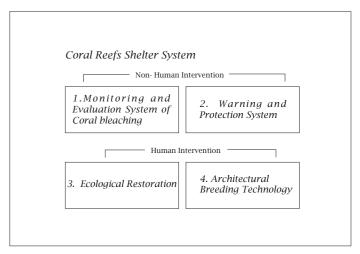
Part 3 site



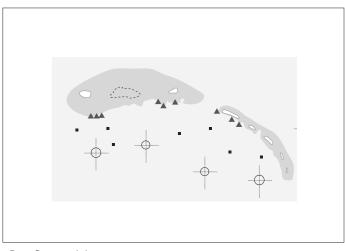
Part 5 typologies



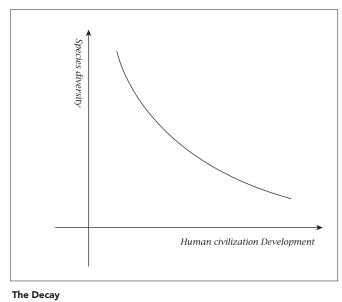
Part 2 coral reefs

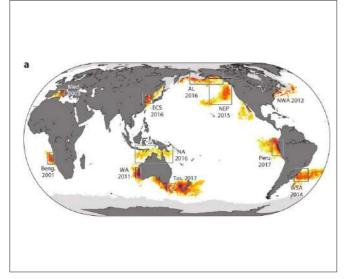


Part 4 system









A marine heatwave is a short period of abnormally high temperatures in a

Marine heatwaves are a natural phenomenon. But as the impact of human

activities on the earth's ecology intensifies, marine heatwaves appear more

frequent and the duration of that heat waves increase.

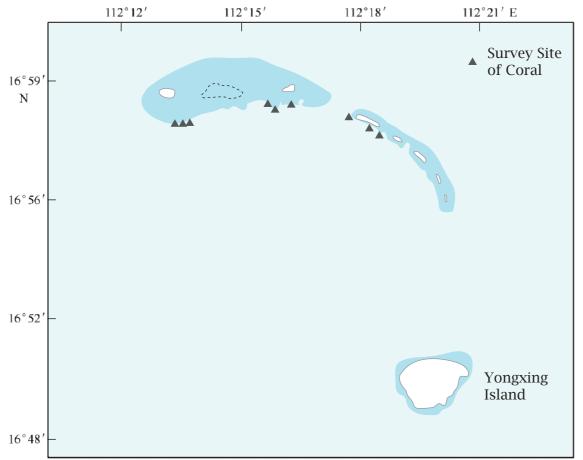
Marine Heatwaves

sea or ocean.

In the Anthropocene, human activities have had a profound impact on the entire planet. Never before has the natural environment changed so rapidly.

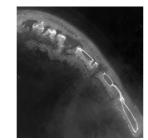
All species, including human, are subject to such rapid change. Unlike humans, however, other species did not acquire the same ability to adapt under such intense changes, and gradually lost their habitable environment. Under the continuous impact of various disasters, such as Global Climate Change, some species are going extinct.

We are experiencing the sixth Biological Extinction.









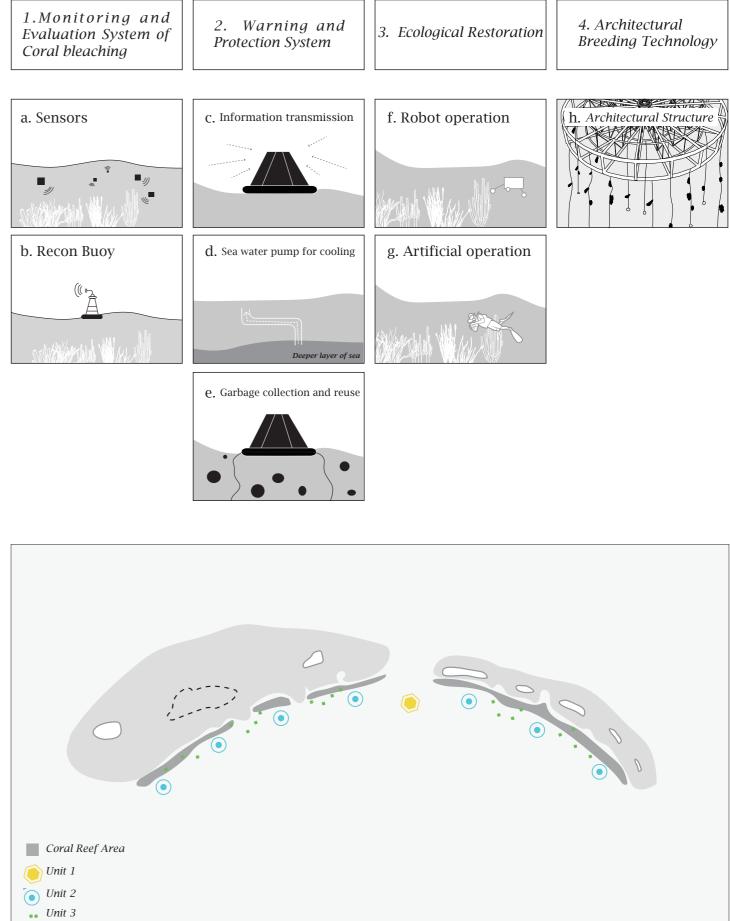
Qilianvu islands

Qilianyu refers to seven nearby islands in the Paracel Islands, the islands are similar in size, distributed in long clusters, and are of the same distance.

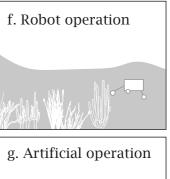
There is an environment suitable for coral reef growth. Due to rising sea temperature and marine pollution, the coral reefs here are also suffering from bleaching.

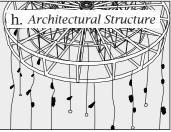
Coral Reefs Shelter System

Non- Human Intervention

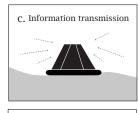


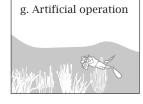
Location

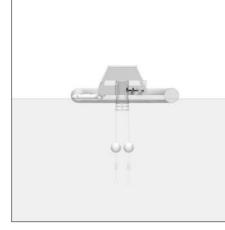








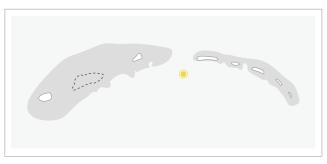




Section





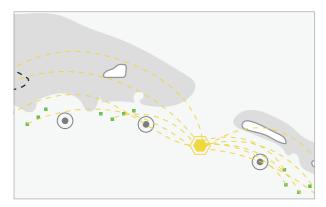


Plan

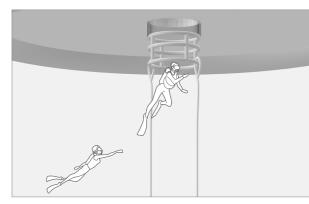
Location

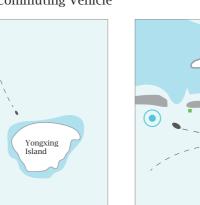
1 Information Collection and Processing



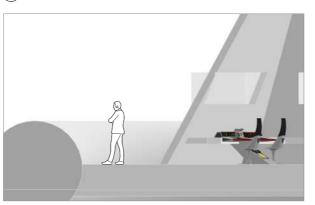


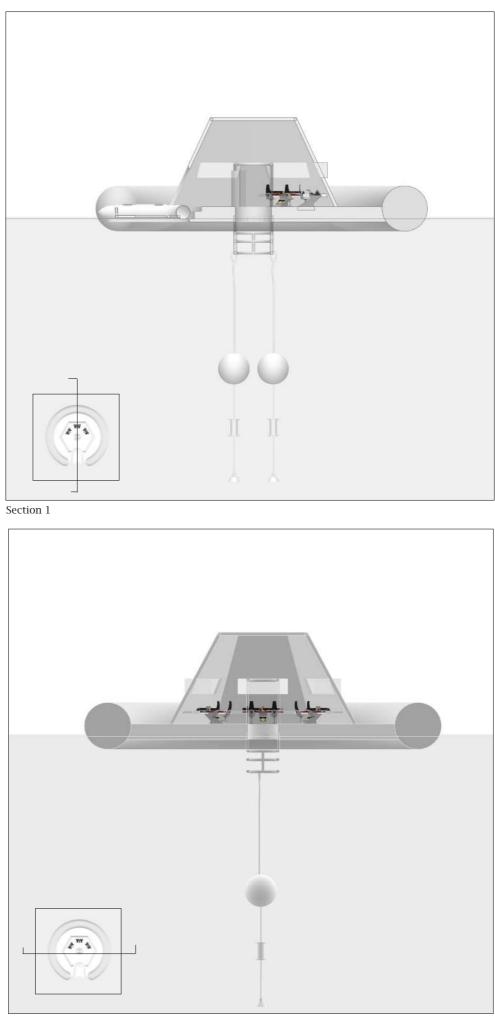
3. Diving and Moving

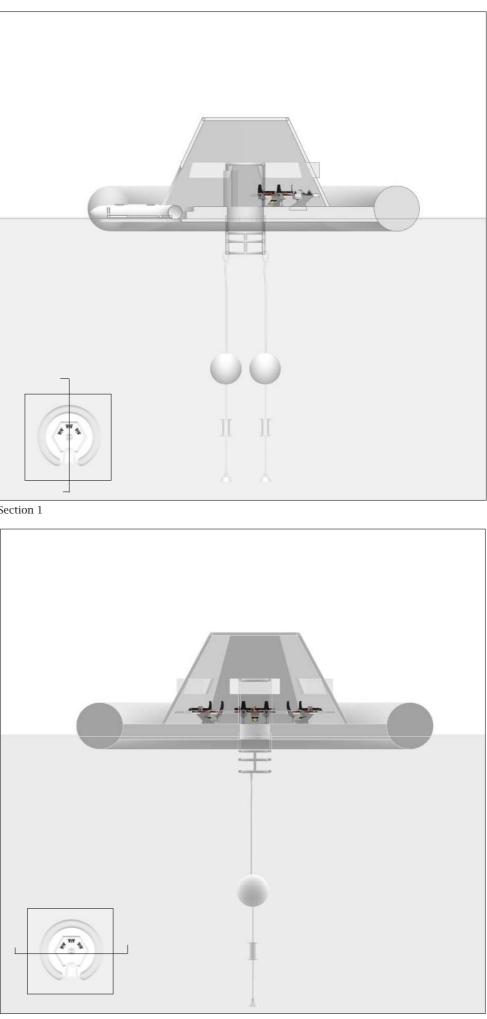




(4.) Observe and Record

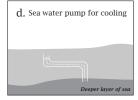


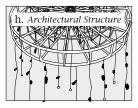




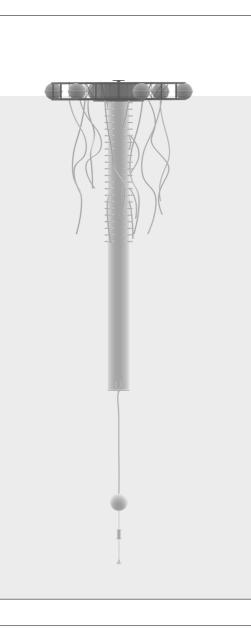
Section 2







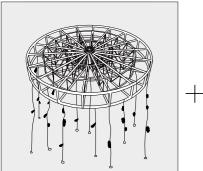


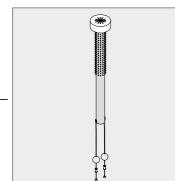




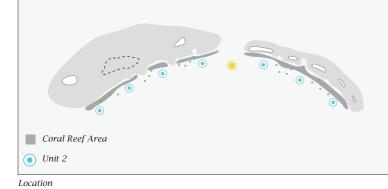
Part 1

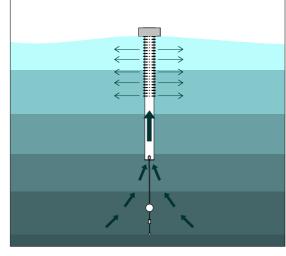
1 Wave pump 2 Architectural Structure 3 Buoyancy ball 4 Water Outlet 5 Rope for Corals 6 Pump Tube 7 Cooling water inlet 8 Anchor





Architectural Structure for Coral Breeding Artificial Upwelling System



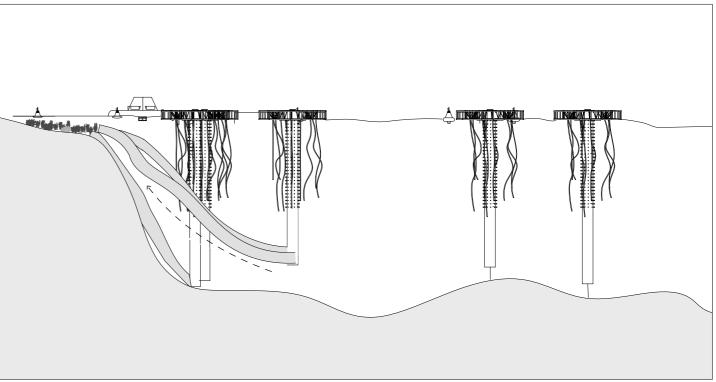


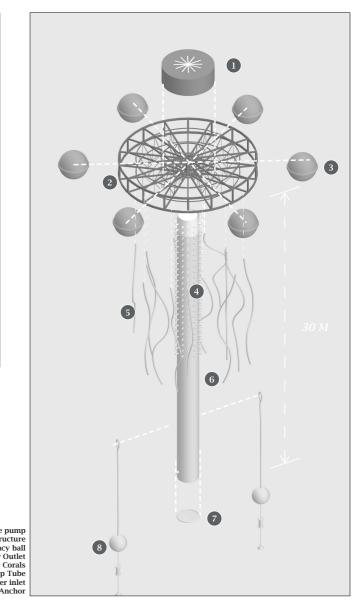
Artificial Upwelling

"Upwelling" happens naturally when winds push surface water away from coastal regions, allowing deep ocean water from below to move up and take its place.

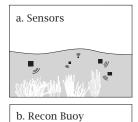
Deep-ocean pumps are used to *manually imitate the process*. This is known as "artificial upwelling," and it was used to help increase fish stocks in surface waters.

Now some research showed that artificial upwelling *could be used to prevent coral bleaching*, by *cooling the waters in which reefs are located*.

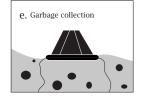


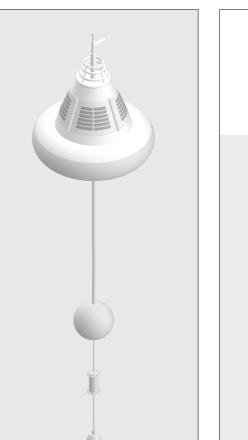


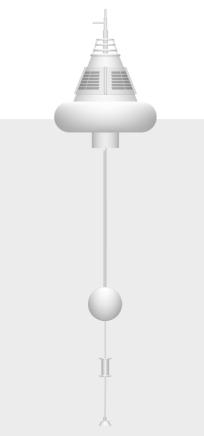


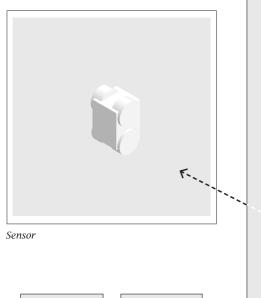










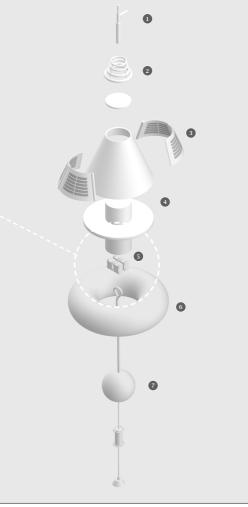


Store and send Remote control information

Sensor Functions

Close shot of coral from multiple angles

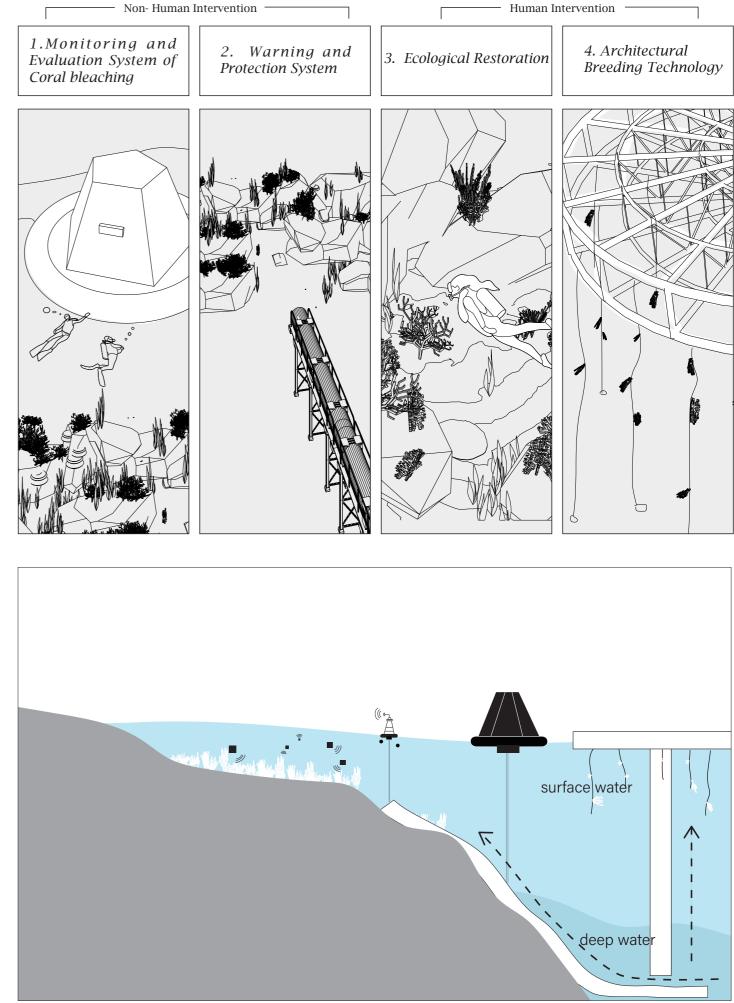
Automatic self-charging





4 Garbage collection and storage 5 Sensors and Charging pile 6 Floating Ring 7 Anchor

Coral Reefs Shelter System



System Map





02 THE VIOLENCE IN THE AIR

GSAPP FALL 2021 NAHYUN HWANG STUDIO, PLEIN AIR

TIANJIN, CHINA

The violence of the air manifests itself in several different ways, and the air sometimes acts as a medium that participates in or transmits a lot of violence and inequity.

China s industrial development has several different phases, each phase has particular policies to guide the d rection of development, different instructions to guide different industries.

These policies selectively produce certain types of air in certain areas.

To some extent, we consider this different air could express the economic and political disparity between different regions of the country











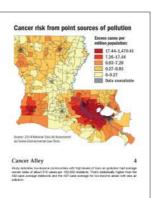




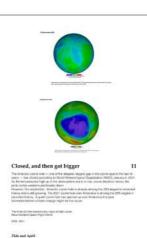
many years, while the autowording other have been beening the costs of its develop? online to ensure the priority development informatio of the capital
Cale Servers of International Negative, Note: These Applications of the early of MONTEN Section and the International Applications of International Control of Cale Section 2016
Yalang (Selim











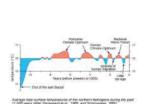


Soft Breath

Airweight" is an attem global scale. Airweight acts the gravity of t liquid. It rises and I Rosetta Stone. Wh

Anweight" NATURALBUILD 2020 Ohief Achilact: SHU Yanfei Project Achilact: SAD Yawn, LUO Linin

Zida and April





The Dates Cantod Part, Harri Nati Day Childro problemine Chardes (173-2001

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Al-Monthale Standard, China Antiox Autocole 2014



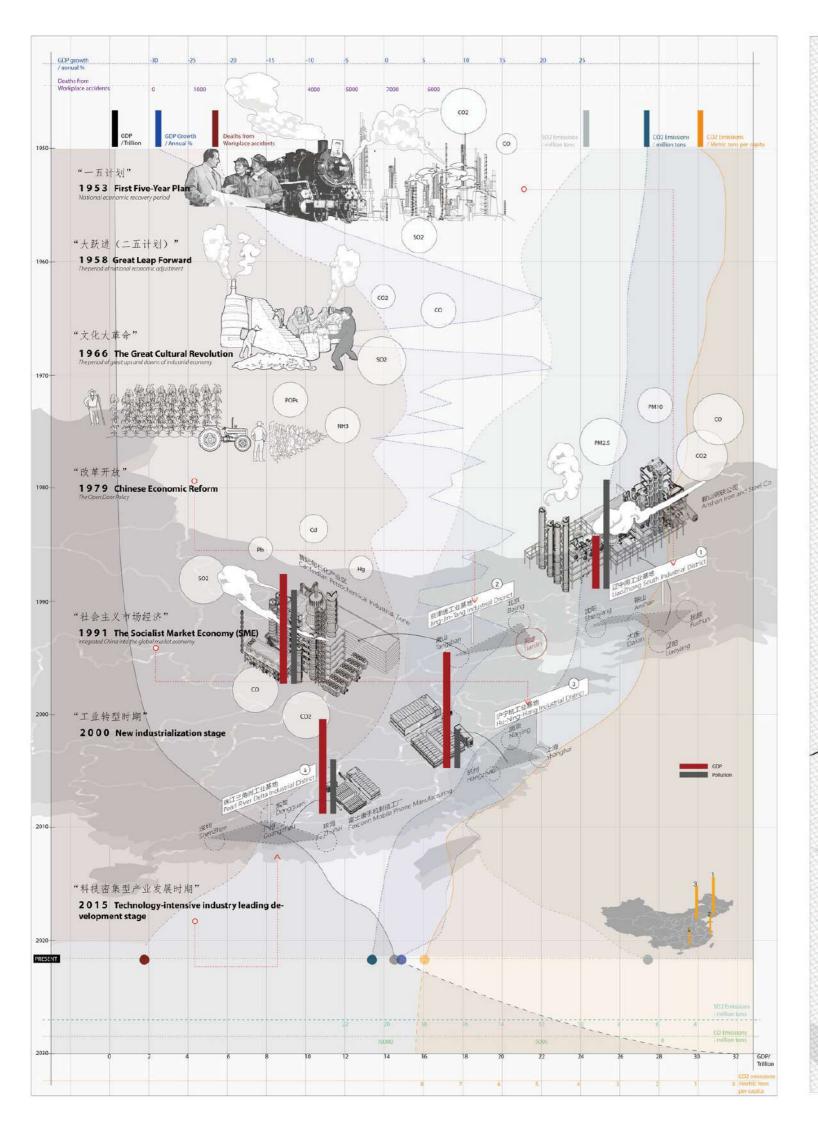


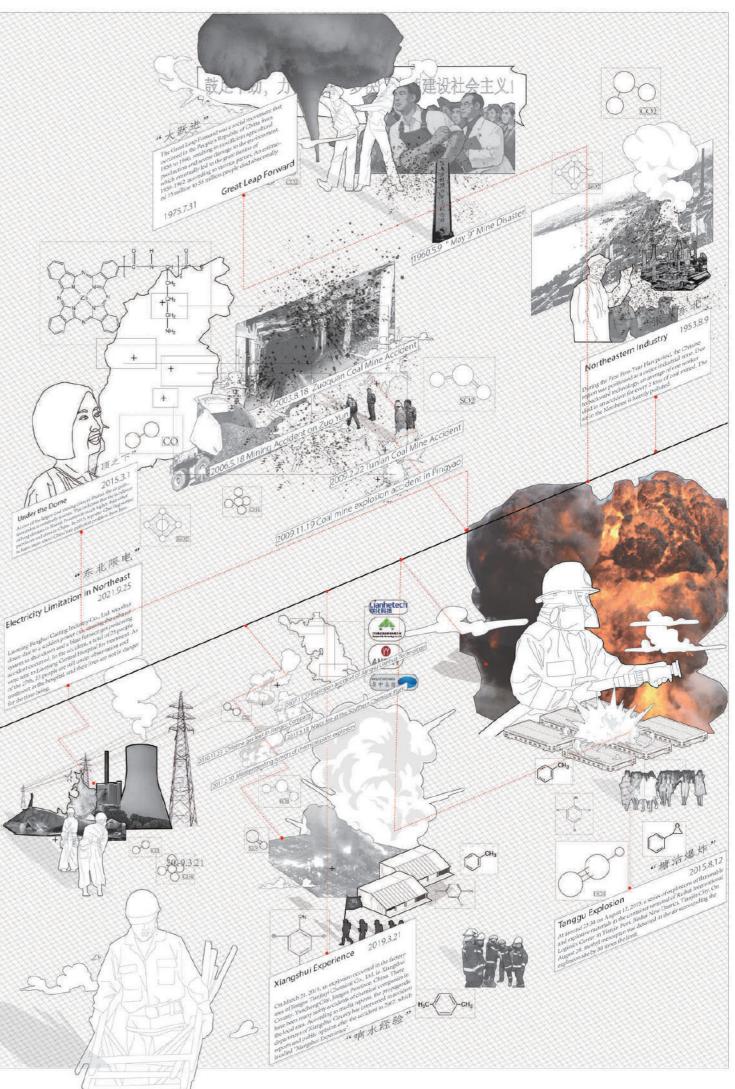
Zids and April

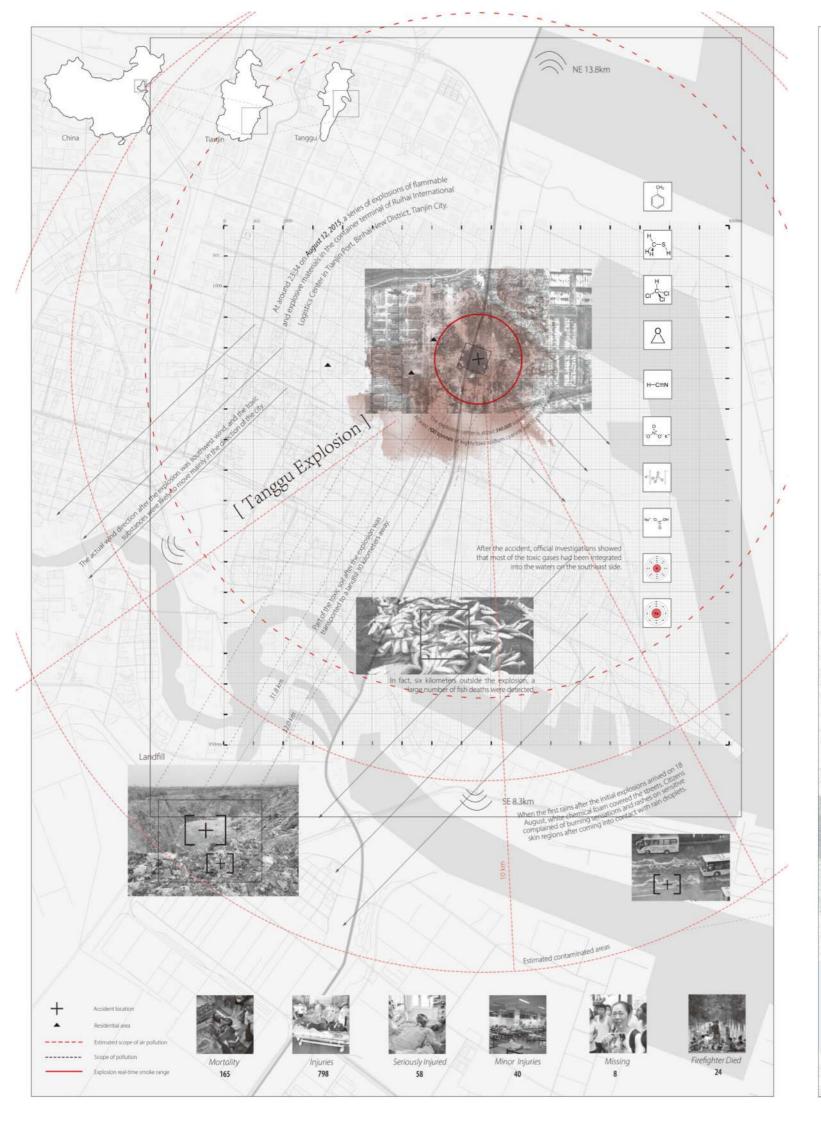


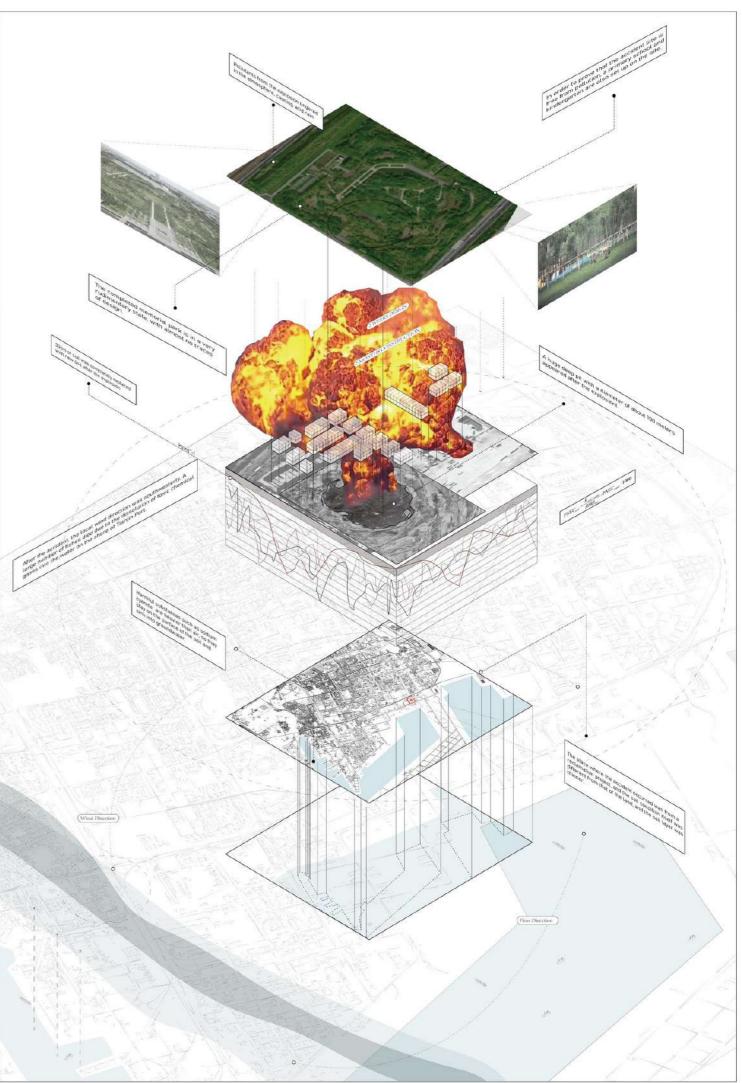
Mening Metriculated + Yelle Gue



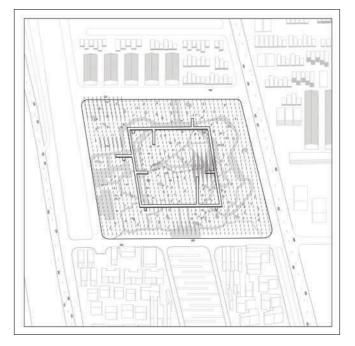




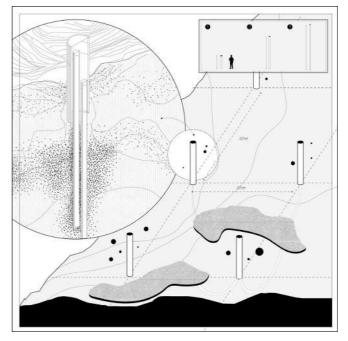




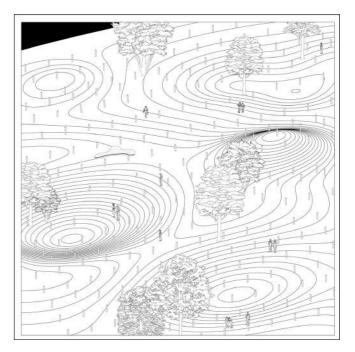




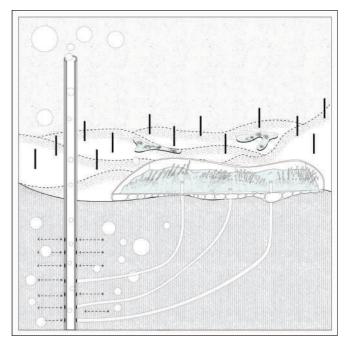
Plan



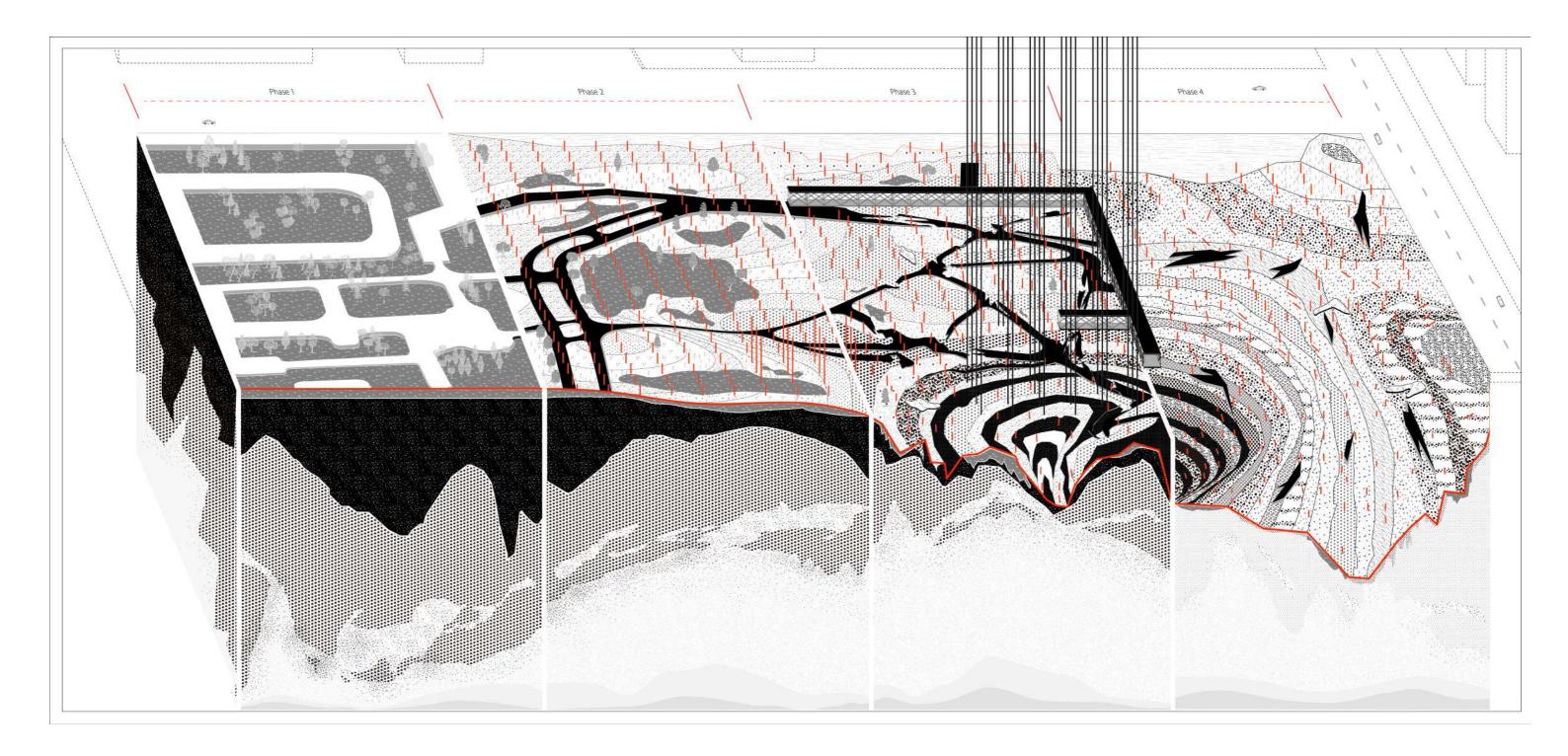
Air Sparging Remediation System



Memorial Ground



Biofiltration System



Phasing Diagram

Phase 1

The park built under the direction of the government: "Tianjin Port Ecological Park". The entire park has few memorial designs related to the explosion. The whole park displays a peaceful and casual atmosphere.

Phase 2

The air sparging remidiation system is applying to the whole site. The original surface of the park is gradually being disintegrated and decaying. Areas with more pollution underground will sink more. A memorial ground then will be formed.

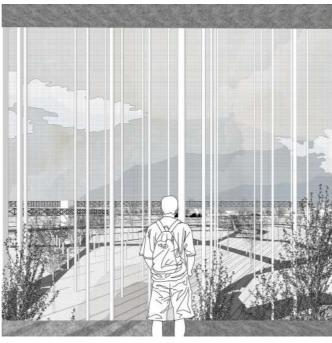
Phase 3

A bridge is built over the entire site. The Memorial Ground began to undergo more drastic changes. People could see from the bridge that the whole site was gradually disintegrating, leaving only broken pieces of the former park.

Phase 4

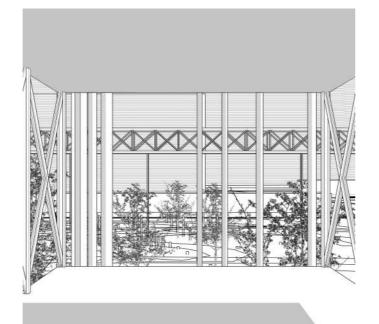
The Pit at the center of the explosion is growing larger, roughly similar to the huge smoke from previous explosions. The Memorial Ground is able to use air as a medium, forming a dramatic new landscape to expose violence in the air.



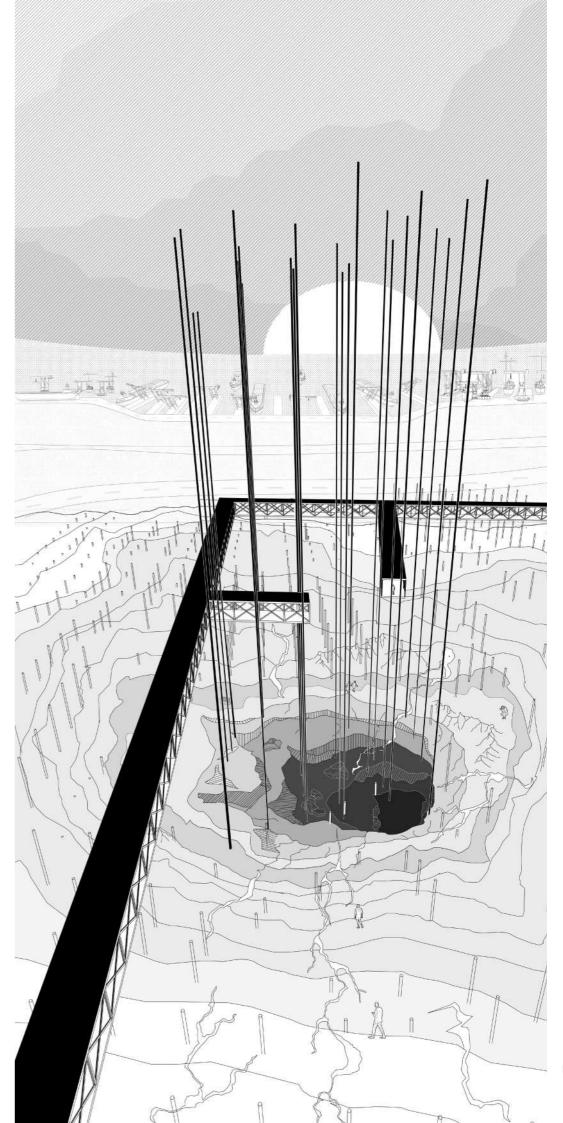


Phase 2





View from the Bridge



Phase 1

Phase 4

03 TWINNING

GSAPP SPRING 2022 MAKERGRAPH, LOT-EK

NEW YORK, U.S.

2

This is my book, this is also myself The book is called Twinning, and it's called Shuang in Chinese. This book is my first attempt to explore myself, to try to understand myself, and to express myself

I tried to go back to the original form of me: born as a twin, raised as a twin, and seeing the world through the eyes of a twin

EXTRA

AGAIN

If you open my book, please look out for the twins in it They may be identical, they may be quite different They make up the world as I see it, and as I see myself.

My book is all about twins I happen to have two eyes, two arms, two legs, I have a left brain and a right brain I also have two iPads, two tables, two lamps, two closets in my room I manipulate these twins like I manipulate my body.

I try to use twins to explain the relationship between my body and the material. Plastic-Head Wood-Torso Metal-Hand Fabric-Leg

I feel the connection between the material and my body, and I visualize it in the form of twin. I am creating more twins, and more of me

I create things, I create books, I create twins, and I create myself

This is my book, it's called Twinning, ℝ This is me, April, 非

Welcome to read my book, and me!

EXTRAORDINAR

SHUANG

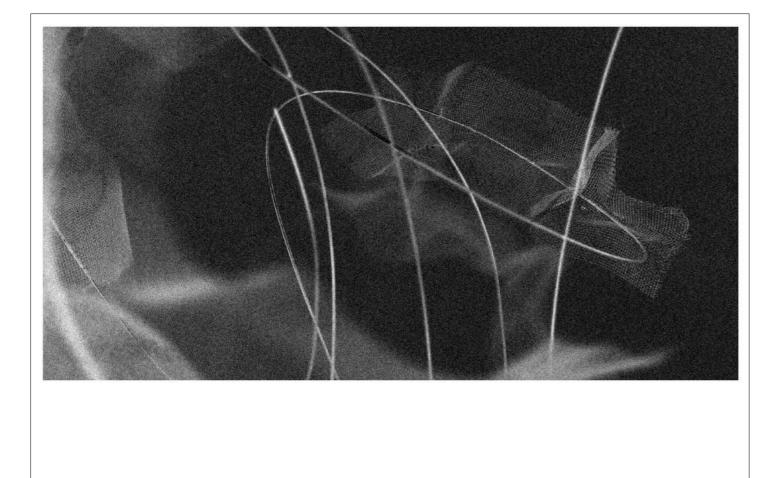
TWINNING



ORDINARY

AGAIN







1	材料	身体	前言	2	MATERIAL	BODY	FOREWORD
	Twins, Multiplicity and Manipulation				栾生、多重与操纵		
	・ 罪 (fei) is my name. 凡 (fan) is my sister In my hometown, when twins were born, t use a word to name the two. 罪 凡, "extraordinary," is the name our pare However, the word 罪(fei) in Chinese usuall [wrong] [error], 凡 (fan) neans [ordinary] The interesting thing is, only two charact mean 罪 凡, "extraordinary." I often feel like this is telling us that the two	he parents would ants give us. y means (mistake] (characterless). ers together can			"非"是我的名字。"凡"是我妹妹的名字 在我的家乡,当双胞胎出生时,父母会用 子。 非凡,是父母给我们的名字。 然而,"非"一词在中文中通常意味着[[一个词来命名两个孩 语说], '凡'意味着 卓越",	
	co-existing, that we can't live without one. - Being born as a twin has affected me subc close to my sister enabled me to better ur in a different world and build my own wor multiple perspectives. In many cases, this is also the source of my to experiment with different approaches to effects, and I make "twins" to compare other, exploring different structures in such	nderstand people dview, giving me y creativity. I tend achieve different them with each			- 生力双胞胎对我的影响是潜移默化的。与 好地理解不同世界中的人,建立自己的世 角。 有时候,这也是我创造力的未避。我倾向 达到索索不同的结构。 在我对自己树菜中,我习惯于使用相同 不同的效果。	界观,让我有多种视 于尝试不同的方法来 行比对,在这种差异	

other, exploring different structures in such differences. In my exploration of myself, I was accustomed to using the same language and trying to create different effects.

But one language that is always present in different explorations is the sense of human touch and manipulation.

My touch and movement help me to better understand the structure of the world. I want to use this manipulation in my work as the same, as a living language that helps us understand the meaning of the work.

These works are incomplete without the intervention of human activity.

April 04.25.2022

1

但有一种语言始终存在于不同的探索中,那就是人类的触觉和 操纵。

-我的触摸和运动帮助我更好地理解世界的结构,我想在我的作品中也使用这种提纸,作为一种生动的语言,帮助我们理解作品的意义。 没有人们行为的介入,这些作品是不完整的。

≇ 04.25.2022



Plastic 里科

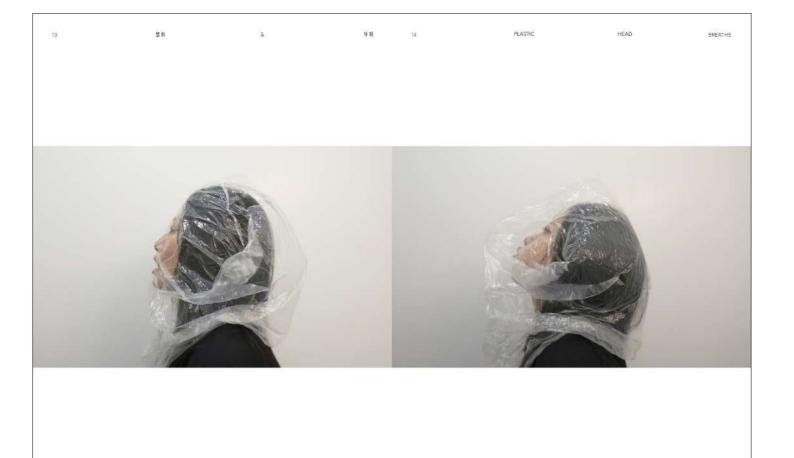






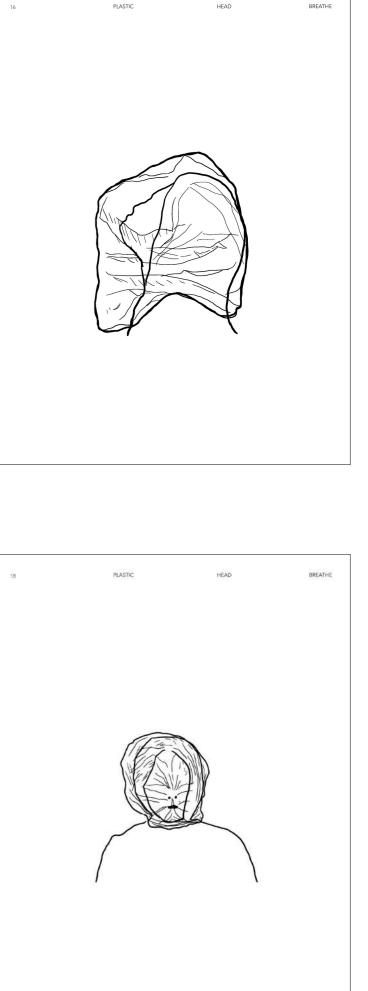
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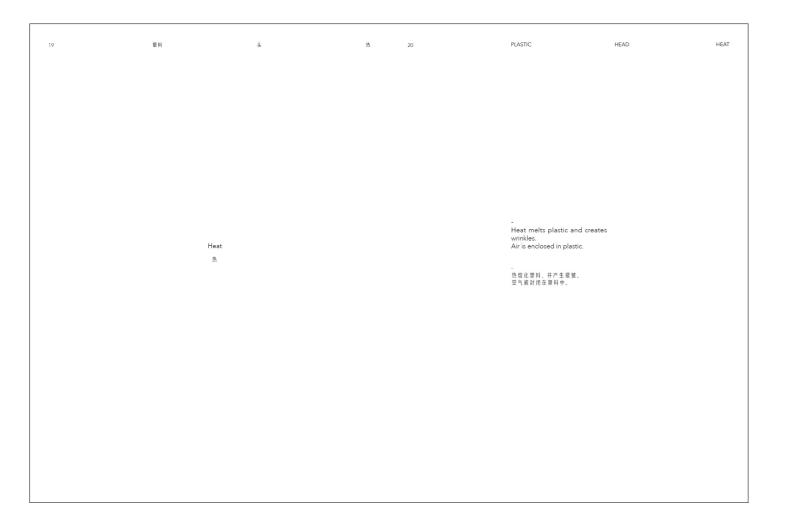
塑料

















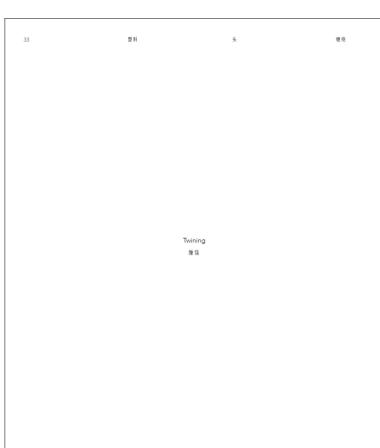












里料

31

A 19. 32



PLASTIC

HEAD

TWINING

I try to represent my dual personality with plasti	c bags.
The melted plastic surface is wrinkled and to these wrinkles, innovative colors are also born.	orn, but in
On the other side, intact plastic bags are sequence to form a consistent and standardized	
I merged the two different parts with colored	tape and

I merged the two different parts with colored tape and placed them on either side of my neck, wrapping them around my head.

I was enveloped in these two distinct forms and thought about them.

去尝试用塑料袋麦现我的双重个性。 被脑化的塑料表面出现了器皱和碳银,但是在这些器皱中也会诞生出新奇的色彩。 另一边完整无瑕的塑料袋被依次连接,形成线一规范的形状。 我用彩色的胶带连接两边完全不同的形态,并且把它放在我的脖子两边,用它们圆绕我的脑袋。 我被这两种截然不同的形态包围着,思考着。





塑料 头 序 8 Two Souls -I often forget that I am breathing. I use plastic bags to magnify my breath and feel my own presence. I have two souls. There are three girls in my family, me and my two sisters, a twin sister of mine and a sister who is six years younger. When my youngest sister was born, my parents were disappointed because they wanted a boy. So my mother always told me, "You're the oldest child in the family, you should have been a boy. When I was little I always liked to act like a boy, trying to act the way my mom liked. Subconsciously, I used to cover up my own personality.

-Plastic is my container. Breathing, I fill these plastics with my breath. Vapor follows my breath and clings to the surface of the plastic. Blurring the boundaries.

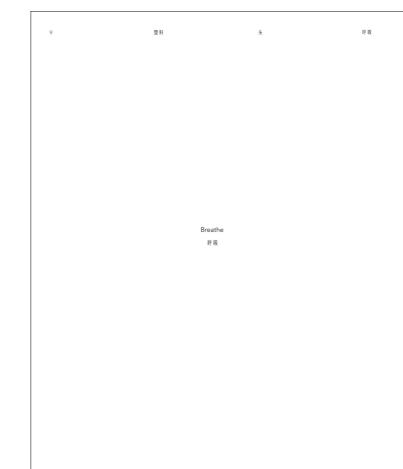
7

TWINING

-I have two souls. And the two souls are parallel. They intertwine in my brain, confusing my thoughts. Two personalities are entwined in my brain. They both need my breath.

And yet I can only choose one side at a time. When I blow on the left side, the right side deflates. When I blow on the right side, the left side deflates.

One side is neat, coherent. One side has more folds, more colors, as well as more diversity. They are twining in my mind.



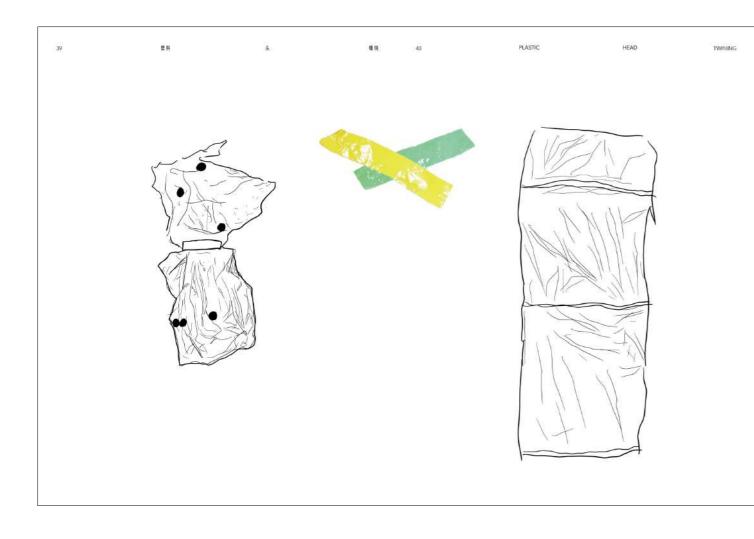
PLASTIC

HEAD

两个灵魂

-我常常忘记自己正在呼吸。 我用塑料袋来放大我的呼吸,感受自身的存在。 -我有两个灵魂。 我家有三个女孩,我和我的两个妹妹。我的一个双胞胎妹妹 和一个小我六岁的妹妹。 当我最小的妹妹出生时,我的父母很失望,因为他们想要一 个男孩。 所以我母亲总是告诉我,`你是家里最大的孩子,你<应该 >是个男孩。″ 当我小的时候,我总是喜欢表现得像个男孩,试图按照我妈 妈喜欢的方式行事。 下意识地,我习惯于掩盖自己的个性。 -塑料是我的容器。 呼吸。我用我的呼吸填充这些塑料。 水汽跟随我的呼吸,附着在塑料的表面。 模糊了界限。 -我有两个灵魂。 而这两个灵魂是平行的。 它们在我的大脑中交压一起,混淆了我的思想。 两个人格在我的大脑中剑难在一起。 它们都需要我的呼吸。 然而,我一次只能选择其中一面。 当我向左边吹气时,右边就会泄气。 当我对着右边吹气时,左边也会瘪下去。 -一面是整齐的,连贯的,平坦的。 一面有更多的褶皱、更多的色彩,还有更多的多样性。 它们在我的脑海中缠绕着。

PLASTIC HEAD 10 BREATHE -l am breathing. l keep ignoring the fact that I'm breathing. l put a plastic bag over my head and tried to magnify my breathing. -我在呼吸。 我常常意识不到我在呼吸。 我在头上套了一个塑料袋,试图放大我的 呼吸。





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里料

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ă LEFT



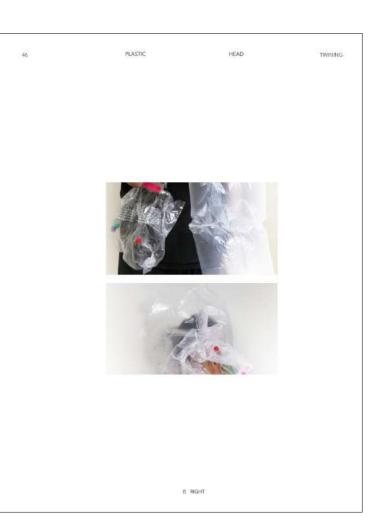
45 堂林 之 權務

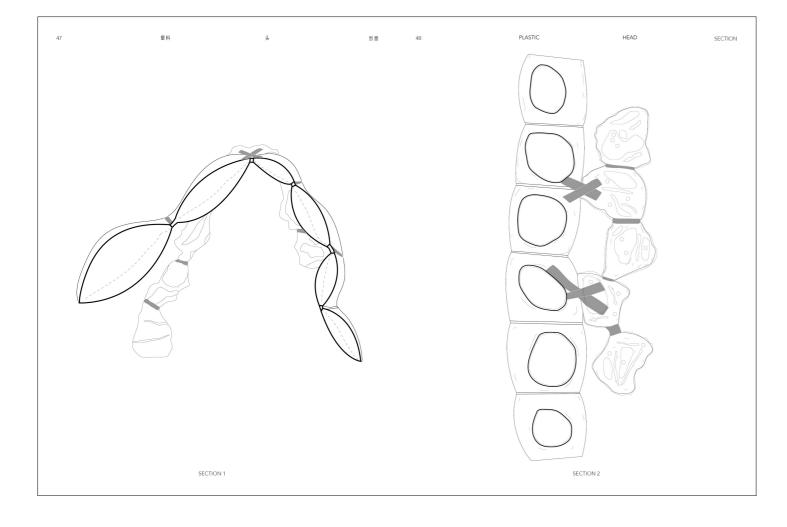


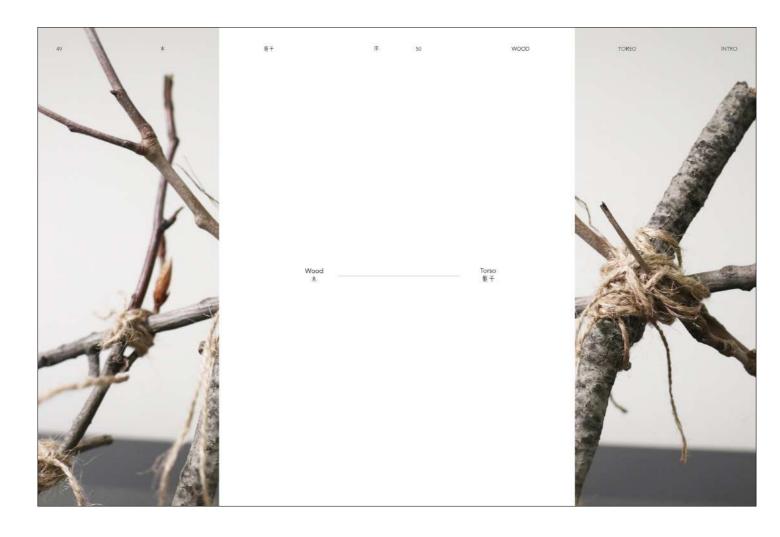
植物

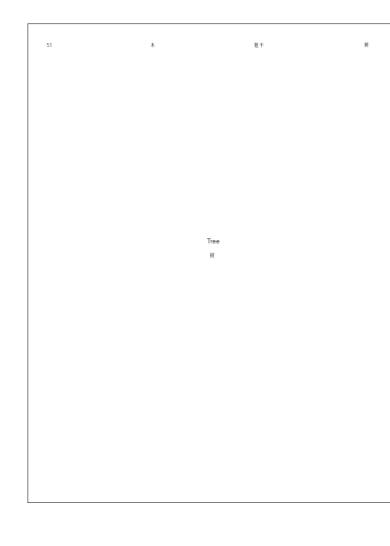


É RIGHT











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53

版干

樹

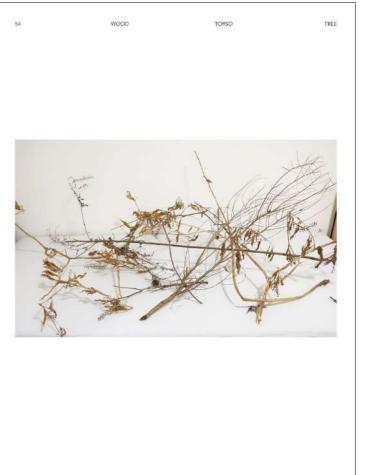
TORSO

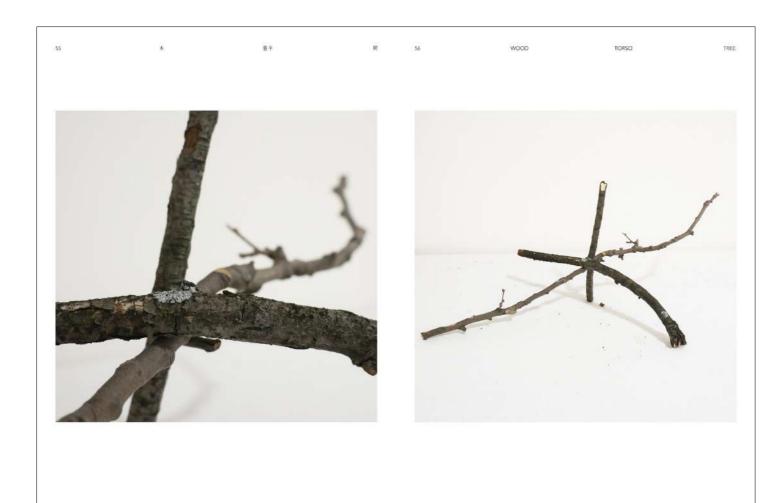
TREE

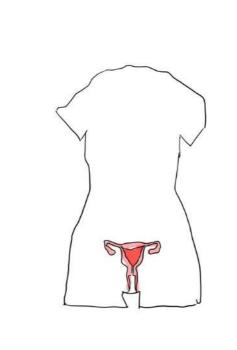
stepped in the snow. I wanted to find some branches that had been broken in the heavy snow. In the contrast of the white snow. The bare branches became particularly visible.

They had stopped growing, and were slowly decaying. I wanted to give new meaning to these rotting branches. So that they could grow again.

-我跟在當地中。 我想是找到一些在大雪中被折断的树枝。 在白色雪地的对比下, 光秃秃树枝变得陷外明星。 它们已经停止了生长, 在慢腐烂。 在程覺寫烂。 使空们得以再次生长。

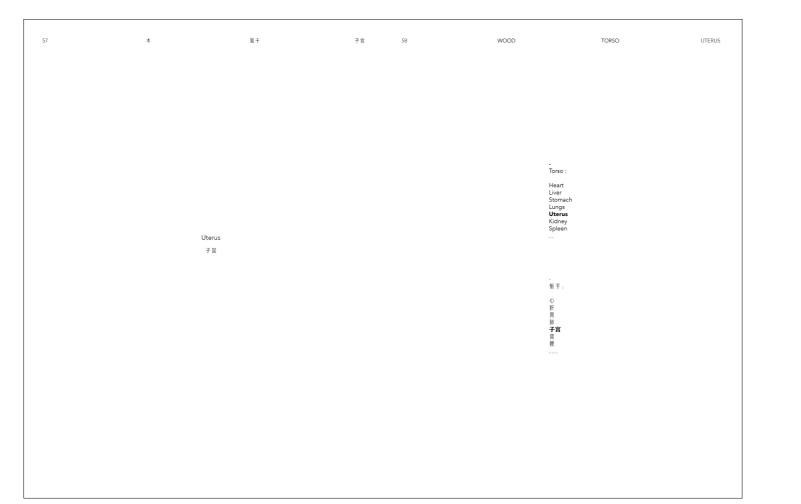






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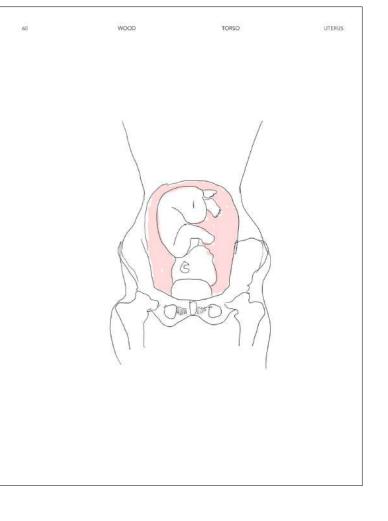


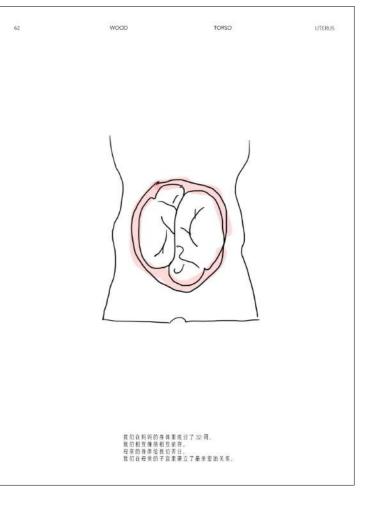


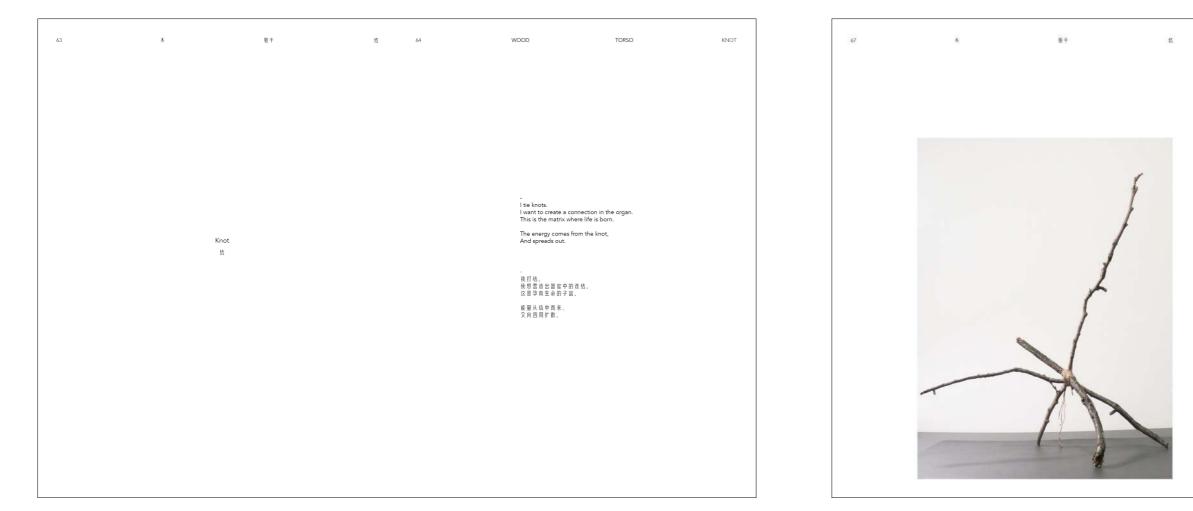


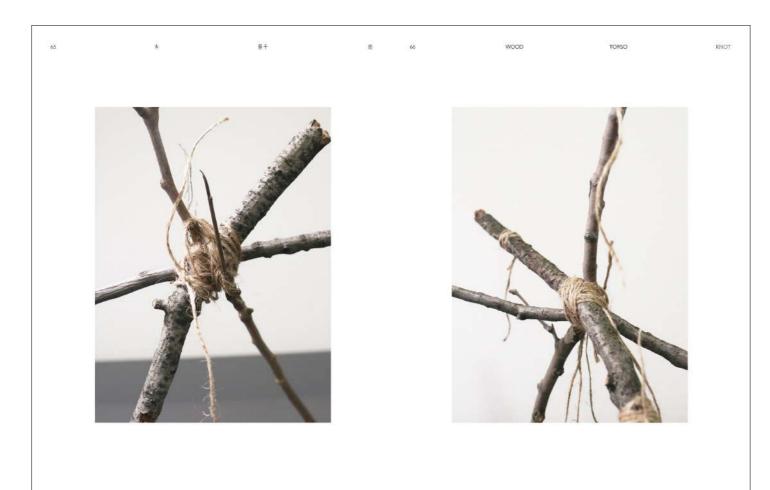
My twin sister and I. We spent 32 weeks in mom's body. We are intertwined and interdependent. Mother's body gives us shelter, We formed our closest bond in our mother's body.

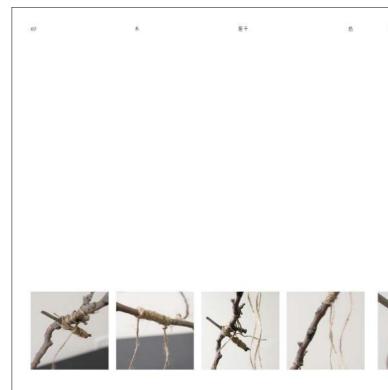
躯干

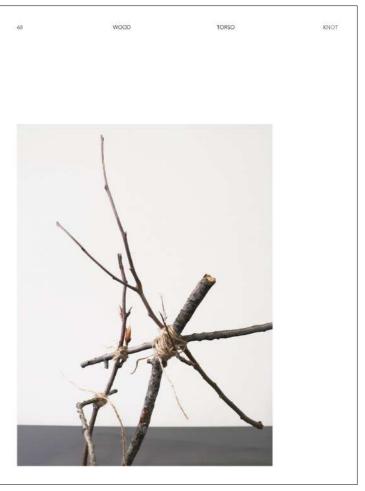








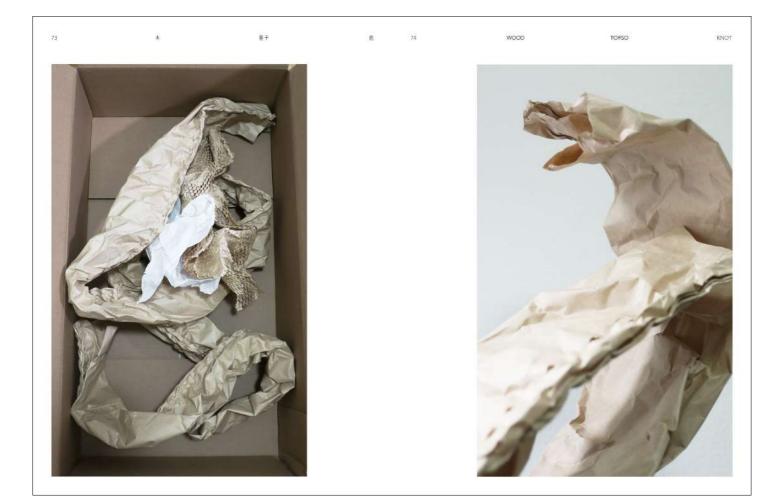




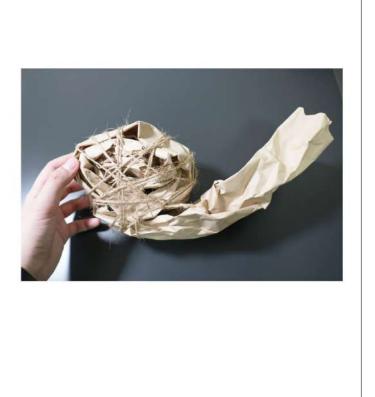
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10		NA.	-A-
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版干

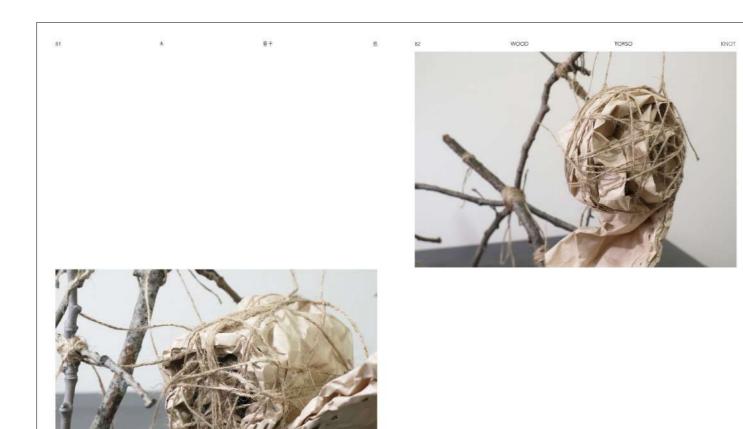
We intertwine and develop together

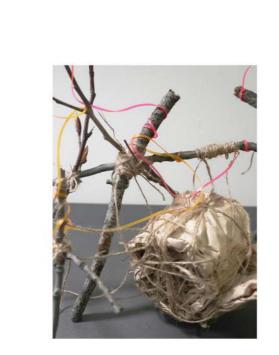
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85

躯干

15

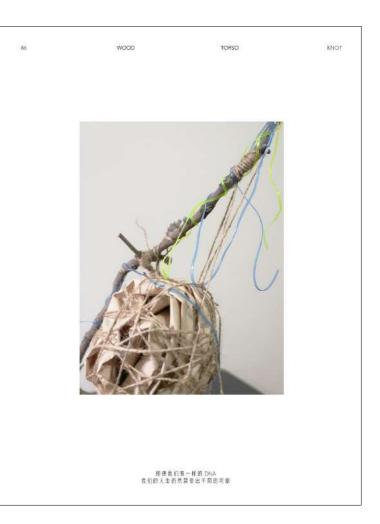




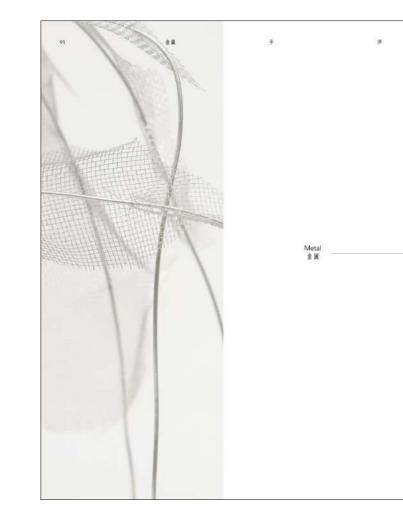
Even though we have the same DNA Our life still develop different possibilities 结

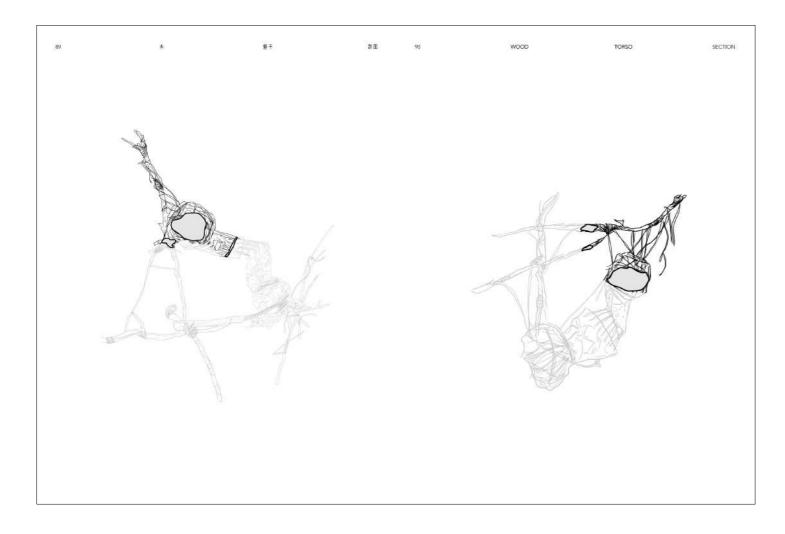


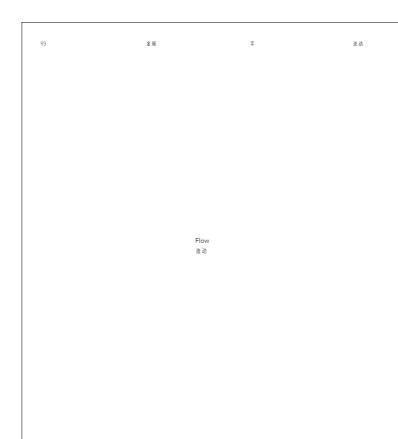
我们相互烦饶 共同发育





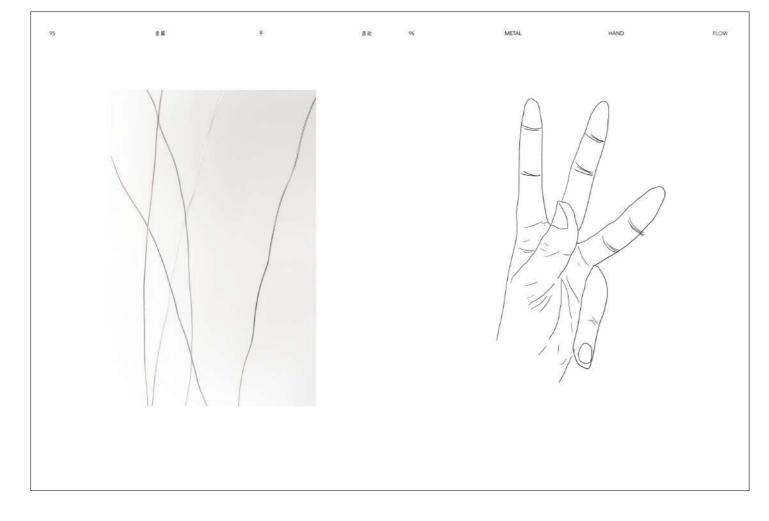








METAL	HAND	FLOW
- We use our hands frequently and we do with them because they are so flexible. Just like the hand, metal can be very flex		
very often in our lives. So I used wire, trying to simulate the vari the fingers.		
- 我们经常使用我们的手,我们用它们做任 它们是如此灵活。	何事情,因为	
就像手一样,金属也可以很灵活,在我们的 经常使用。 所以我用金属丝,试图模拟手指的各种形;		







I first picked a wire that was easy to bend, and I want to use these wires to simulate the movement and form of the finger. I drilled five holes at random in a block of wood, the diameter of these holes is slightly larger than the wire. I cut the wire to a length of about 18in, and then straighten the wire to simulate the appearance of straight fingers. After that I imagine the shape of my hands when I play the piano. I bended the wire simulate the shape of the raised hand joints.

FLOW 1

金属

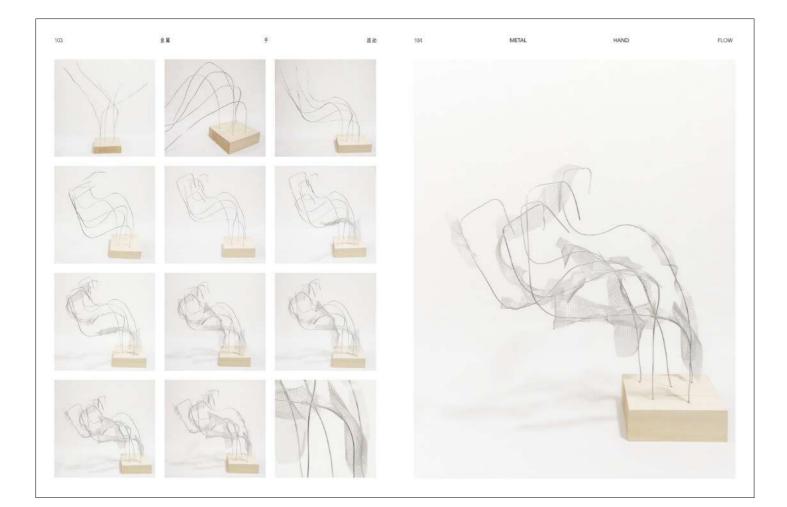
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流动

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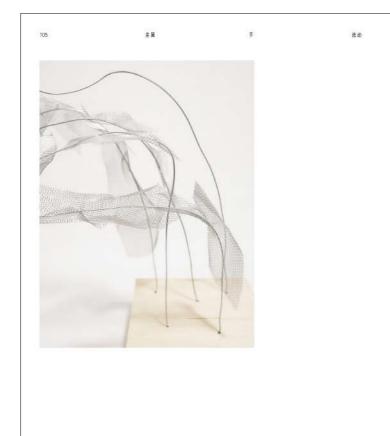




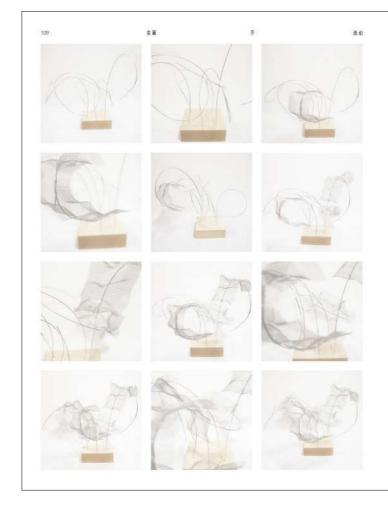
金麗

107

Ŧ







鹿动

FLOW 2

, apply the curved wires and when I put them on the block. I found them to be similar to the shape of a closed hand.

When I make a fist, the joints of my fingers become very visible. So I use the wire to mimic the texture of the skin on my hand, and added it to the wire.

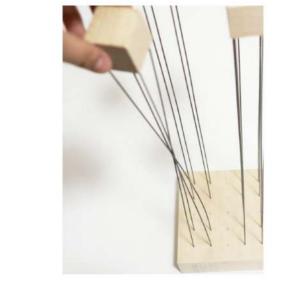
Each part can be moved flexibly to create a different shape.

. 我使用弯曲的电线。 当我把它们放在木块上鲜。 我发现它们类似于一只合放的手的形状。 当我醒拳的时候。手指的关节变得非常明显。 所以我用金属放来模仿我手上的皮肤纹理,并把它如在金 属丝上。 每个部分都可以灵活地移动,以创造不同的形状。



113	全属	Ŧ	操纵	114	METAL	HAND	MANIPULATION
	MANIPULATION 1						
	-						
	Next I tried to use a more controlled way material and the hand.	to create a connection between the					
	I use a music wire that has a higher carbo stiffer and less pliable, making it harder to	n content, which means it would be b bend.					
	I drilled holes every 1 inch in the block.						
	I fixed four music wires to a small square I and then inserted the other end of the m	block with a side length of 1.2inch, usic wire into the large block.					
	I found that I can turn the small block at w together. And the music wire could be rea				Mar	ipulation	
	By connecting these music wires in this w	ay, they can be flexible and elastic.				操纵	
	- 接下来我试图用一种更可控的方式在材料₮	11 手之间建立联系.					
	我使用了一种碳含量较高的钢琴弦,这意 16 弯曲。	k着它将更硬,更少的韧性,使它更难					
	我在木块上每隔 1 英寸就钻了一个孔。						
	我把四根钢琴弦固定在边长为 1.2 英寸的小 大方块。	方块上,然后把钢琴弦的另一端插入					
	我发现,我可以随意转动小块,使钢琴弦也 来恢复。	12.一起转动。而钢琴弦也可以通过转回					
	通过这样的方式连接这些钢琴弦,它们就可	丁以变得灵活而有弹性.					

読动



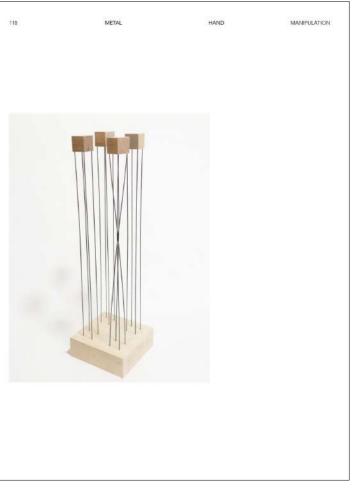






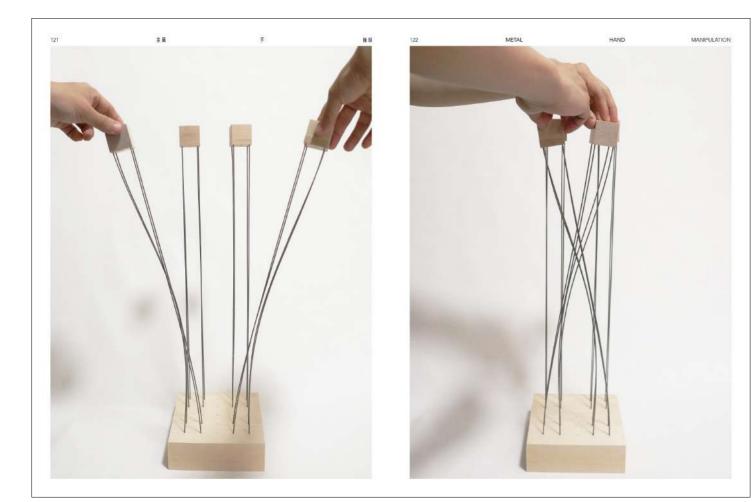


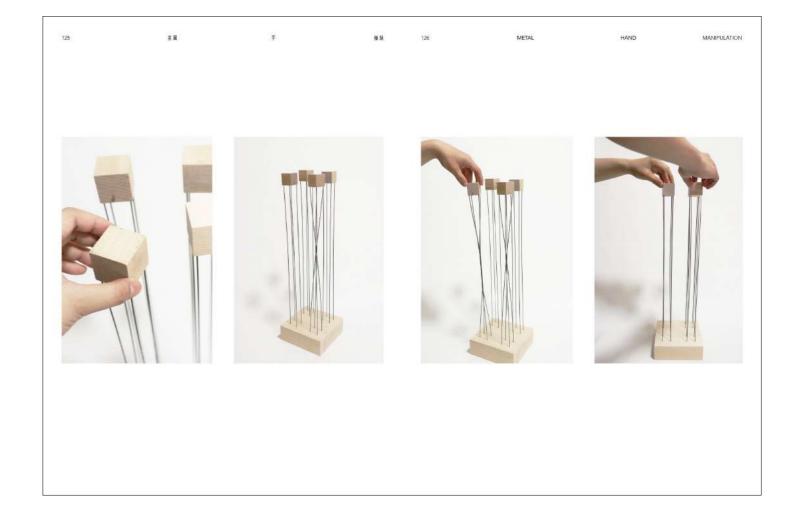










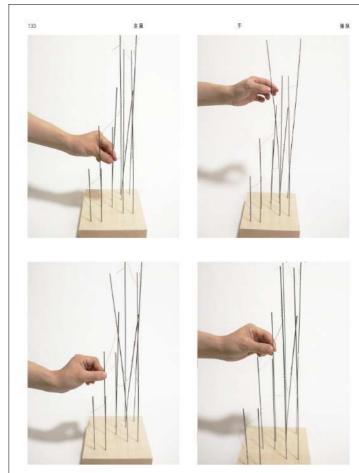






金属

120



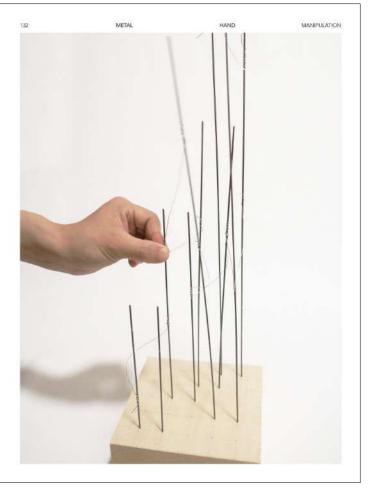




金麗

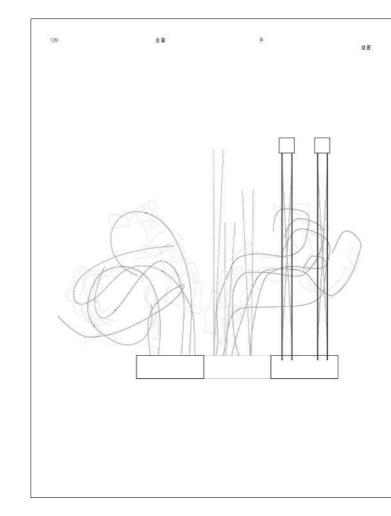
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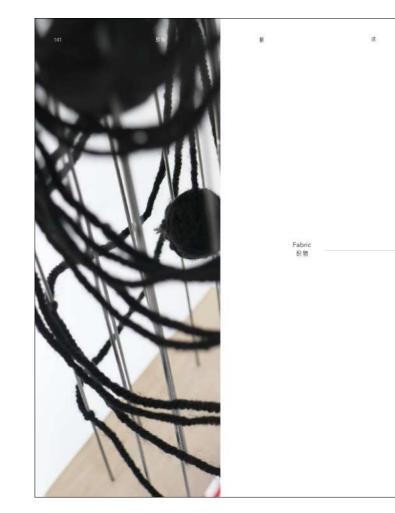


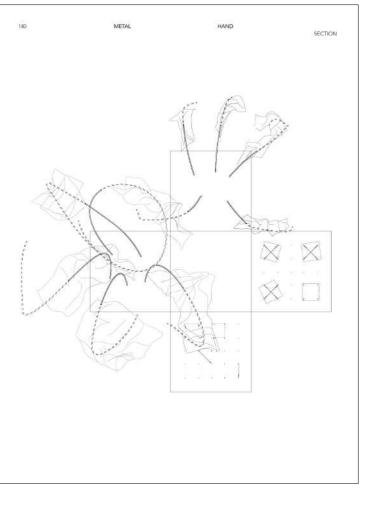


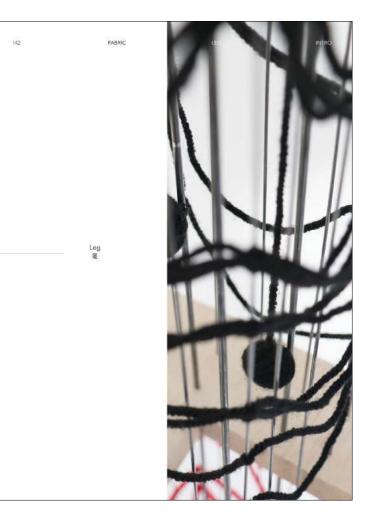






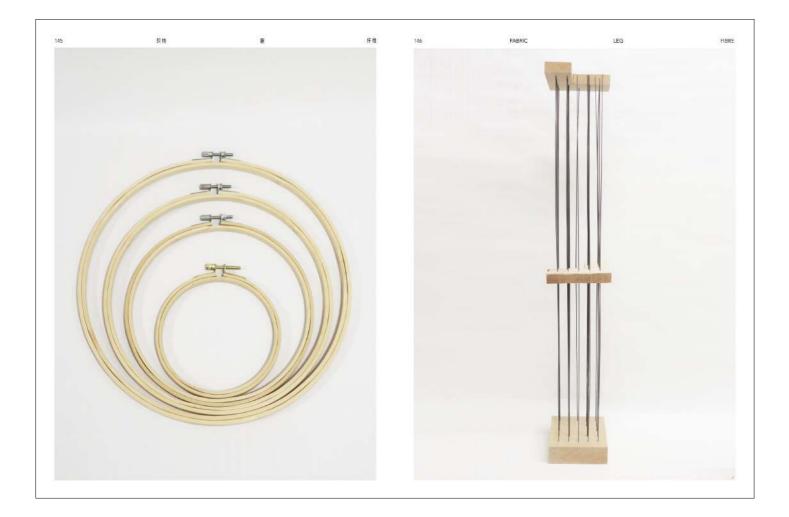


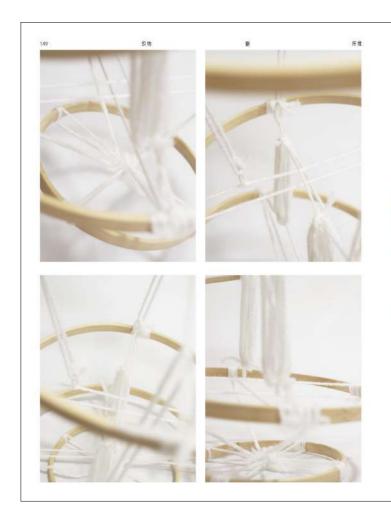




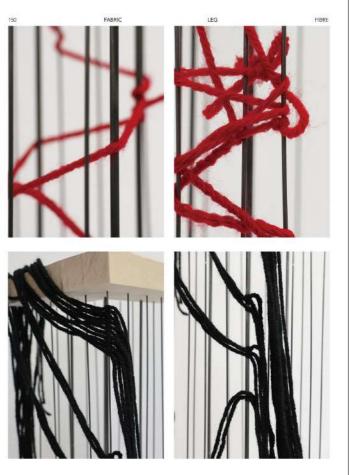


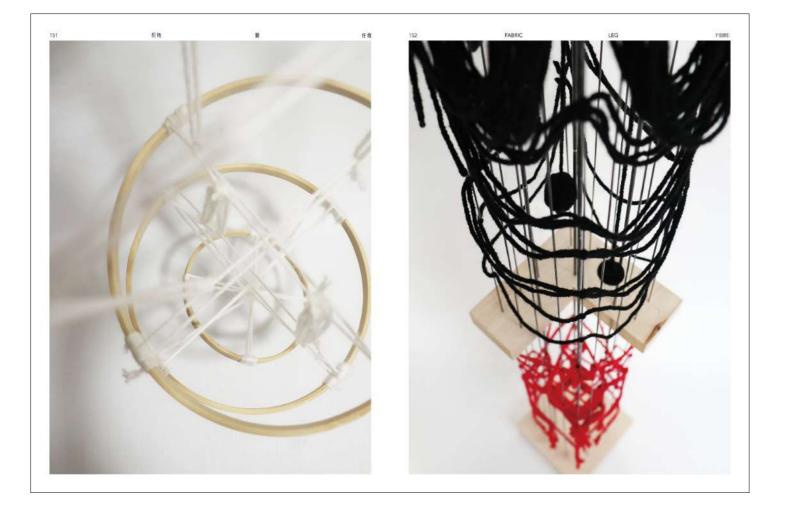


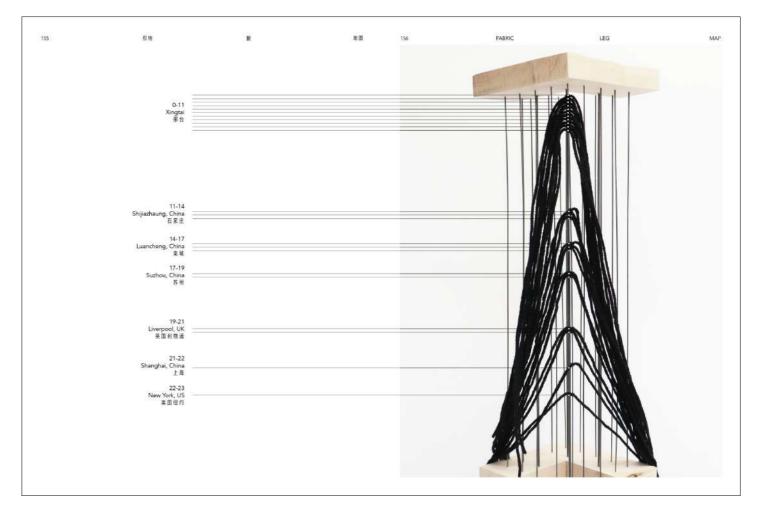








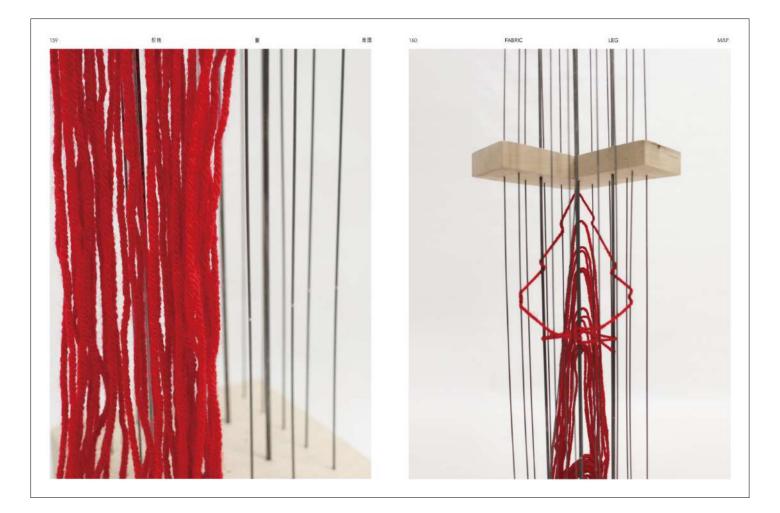




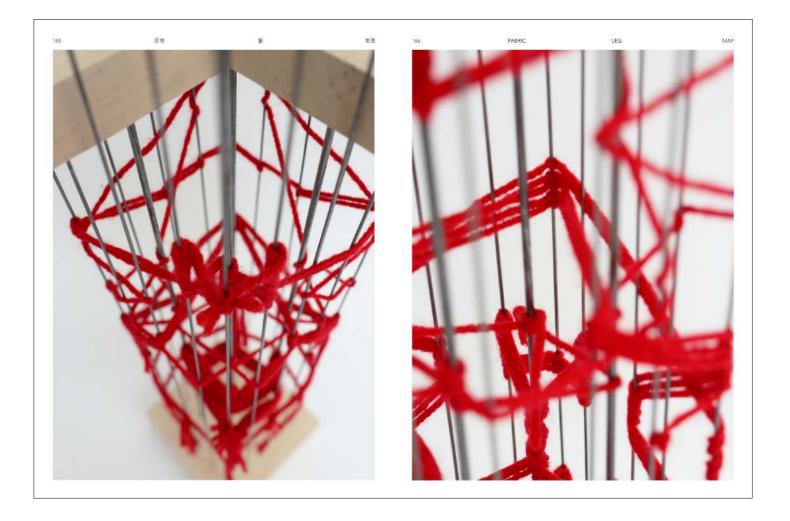
153	织物	譢	地图	154	FABRIC	LEG	MAP
					- Imagined the wool as my legs and These strands of wool would trav have been. In the 23 years of my life, I have n different places. Xingta, Shijiazhuang, Luancheng, Step by step, I moved further and I gained more knowledge, a greate I've seen better scenery and met m	el instead of me to the places I noved around and lived in many iuzhou, Liverpool, New York urther away from my home. perspective, a better education	
					- I used red wool threads to help me A thread represents a year, and all the trajectory of my life.	walk through those lives again. hese intricate structures became	
					- I use black wool threads to repress home, and the loneliness and sadn foreign land.	ent my heart. My longing for my ess that sometimes pops up in a	
		1ap			When I see them, it's as if I see my	self.	
	4	12					
					- - - - - - - - - - - - - -	过很多不一样的地方。 , 纽约 更好地教育	
					- 我用红色的羊毛线来帮助我重新走过 一根线代表一年的时间,这些错综! 迹。		
					- 我用黑色的羊毛线代表我的内心。 然冒出来的孤独感和在异乡的悲伤。	我对我的家的渴望, 和有时会突	
					我看到它们,仿佛就看到了我自己。		



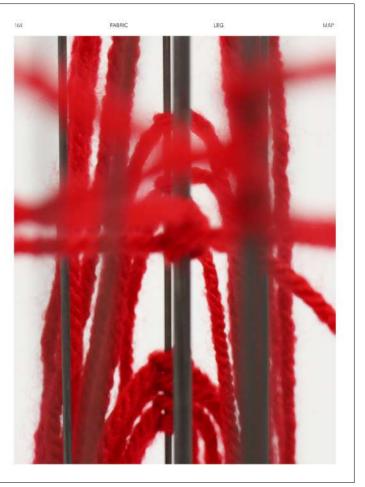


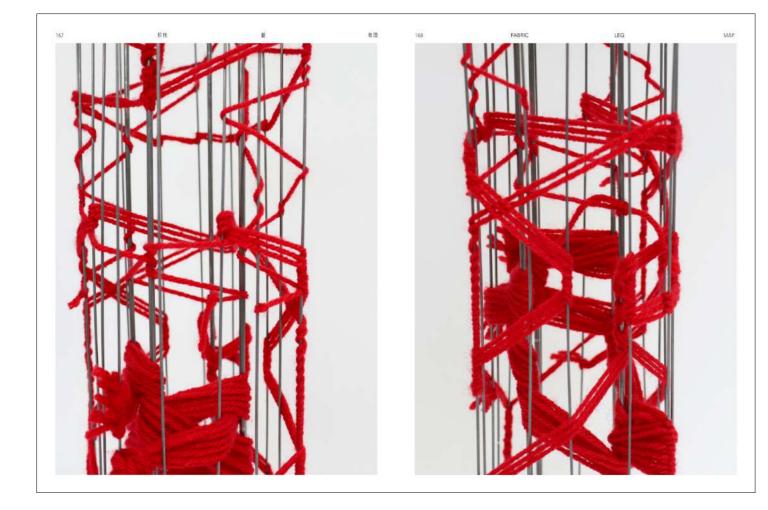




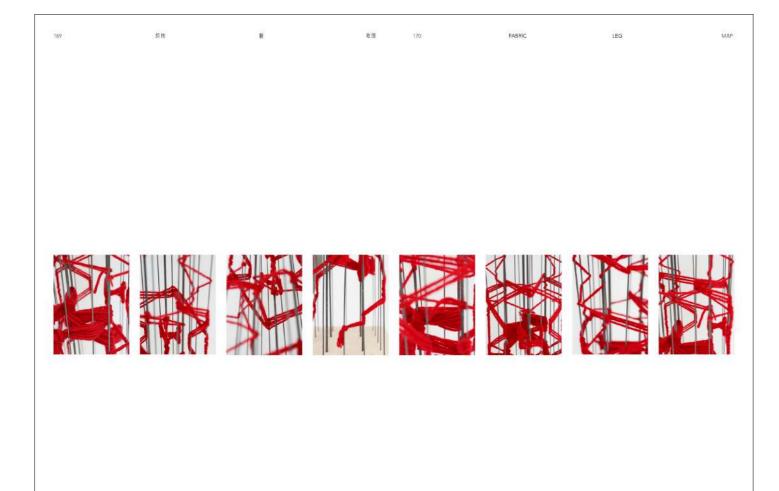


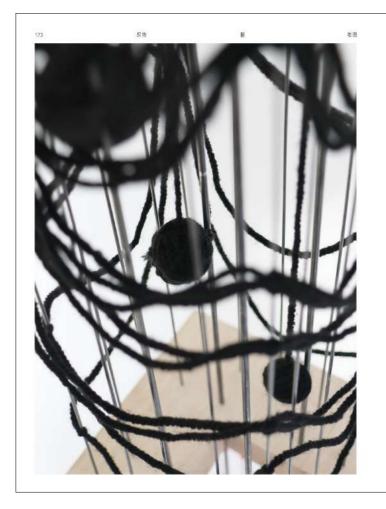








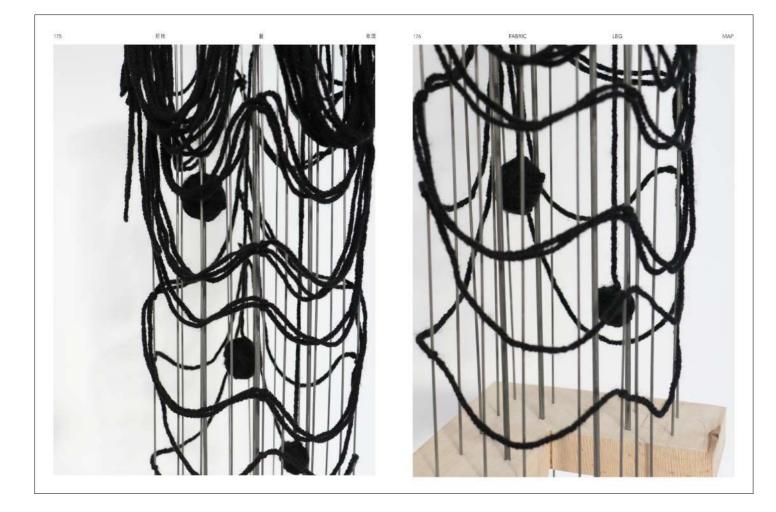






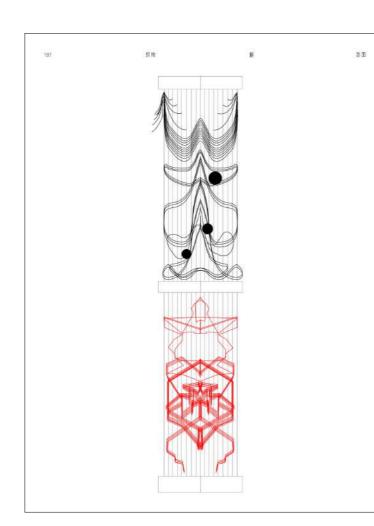






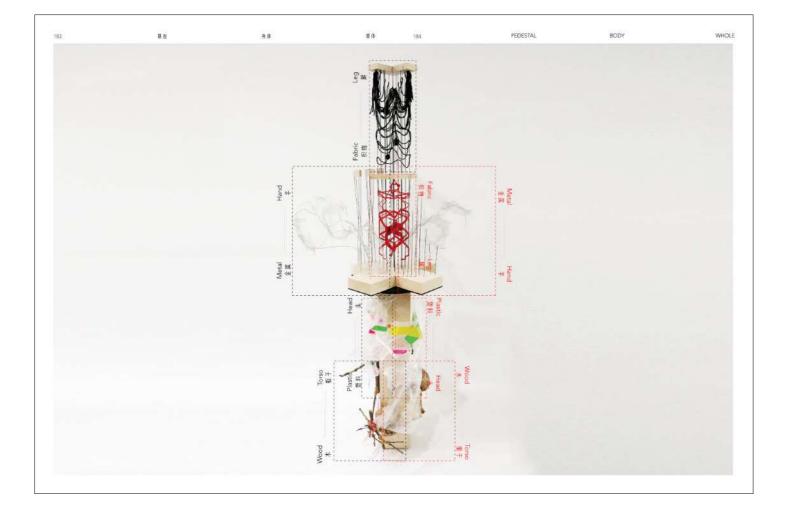


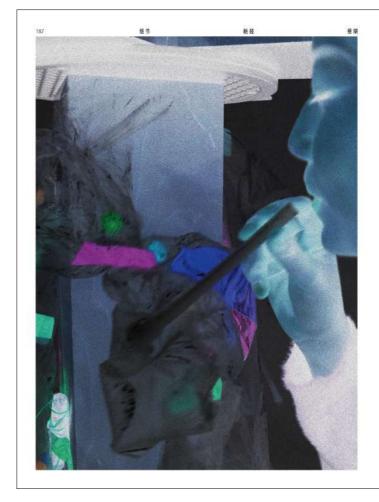


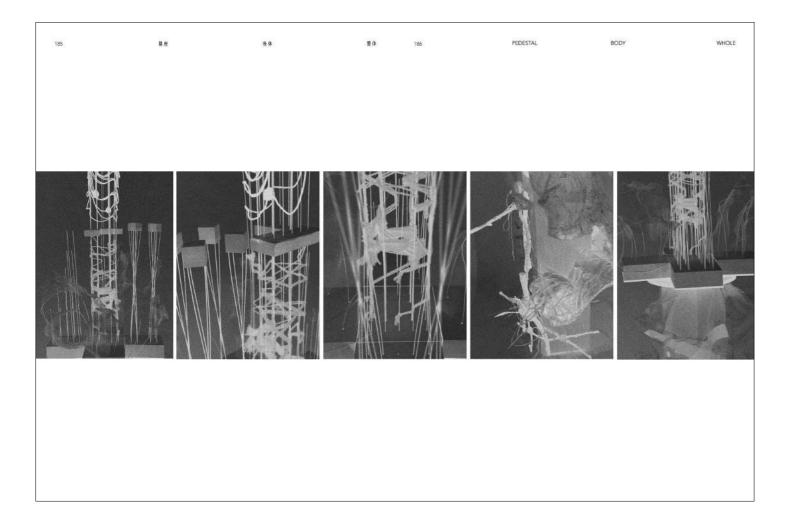




82	FABRIC	LEG	SECTION
1.2			
		-	

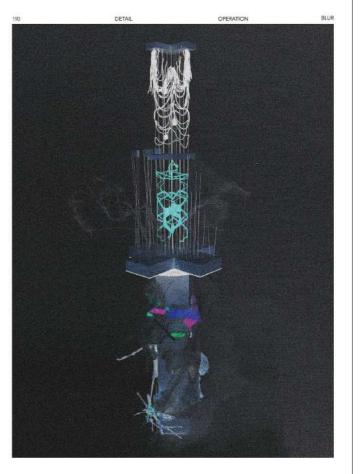






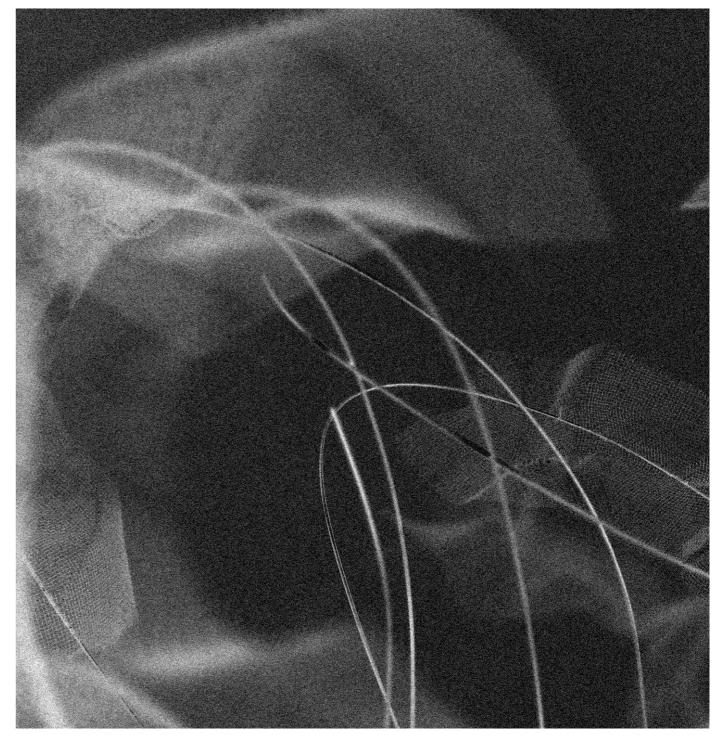








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TWINNING 双