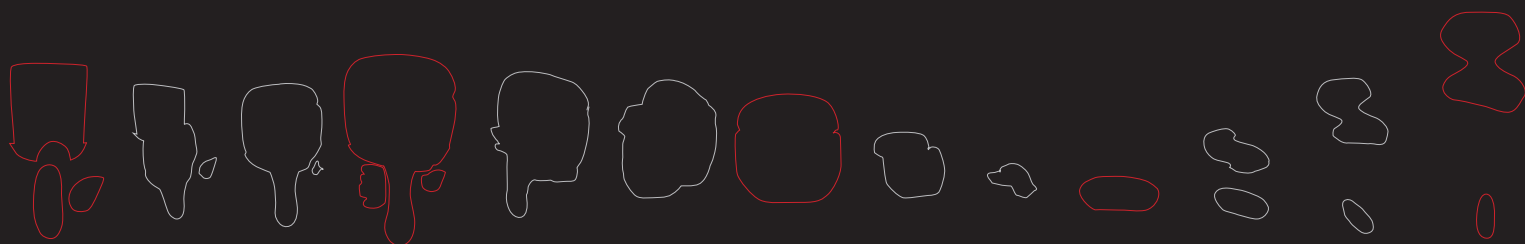
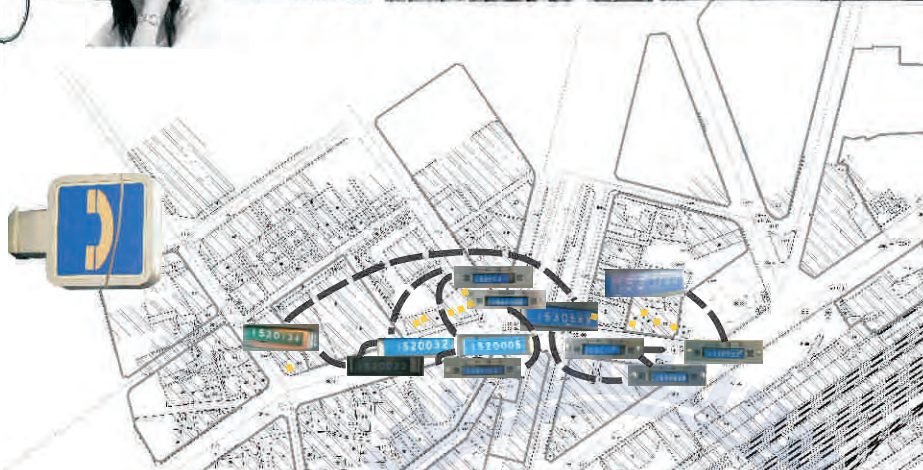


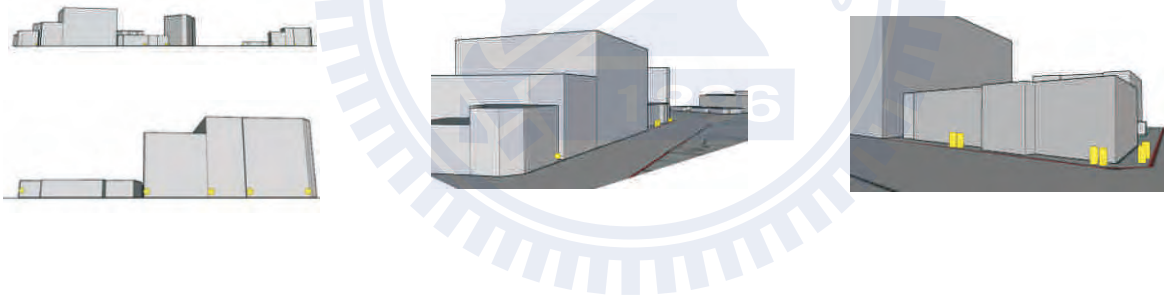
Walking on the pavement, Taiwanese pedestrians are used to those motorcycles. But from the international view point, it is a special scene. Motorcycles control the space of sidewalk. I started to get the sections of motorcycles to grab some clues that form the body of them. Then try to use those sections to become some now form that define the human space of cultural center in HsinChu. They are installations for people to sit, lay down and to chat with each other. Or it could be a billboard to show some information about HsinChu.

## pedestrian motor pool





由使用手機者與公共電話招牌的疊合畫面去注意到林森路上多達十二支的公共電話，  
而去紀錄其面向與編號，想藉由觀察去找尋使用的小線索，蔓延方式及使用頻率等。

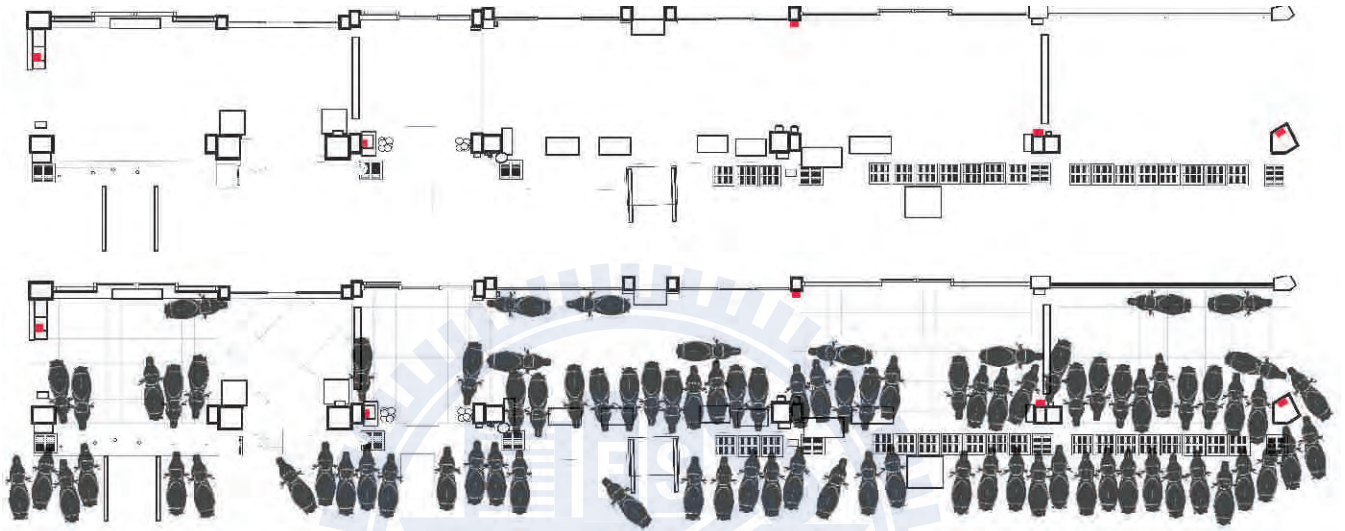


試圖描繪電話周遭的同時，發現了有強烈存在感的機車，  
這也是台灣特有的街頭景象。

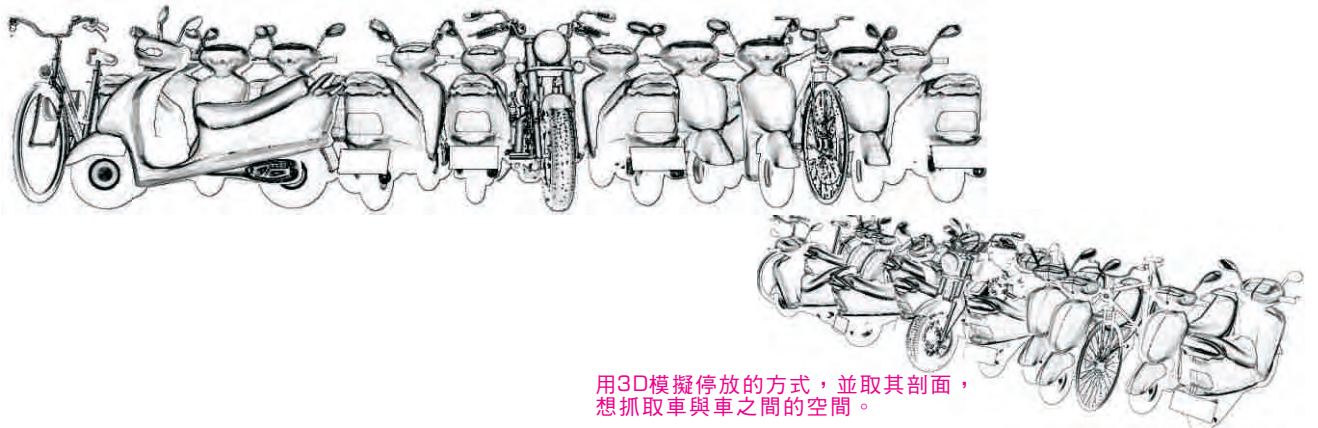
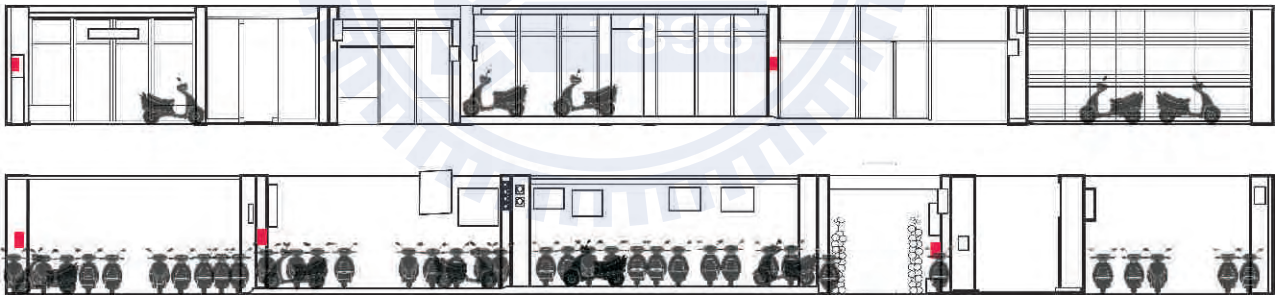




plan



section



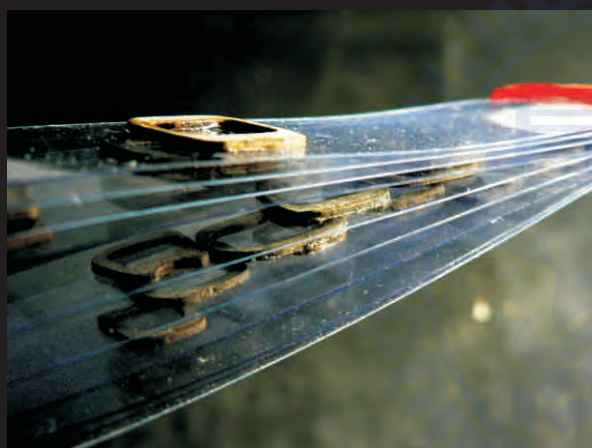
用3D模擬停放的方式，並取其剖面，想抓取車與車之間的空間。





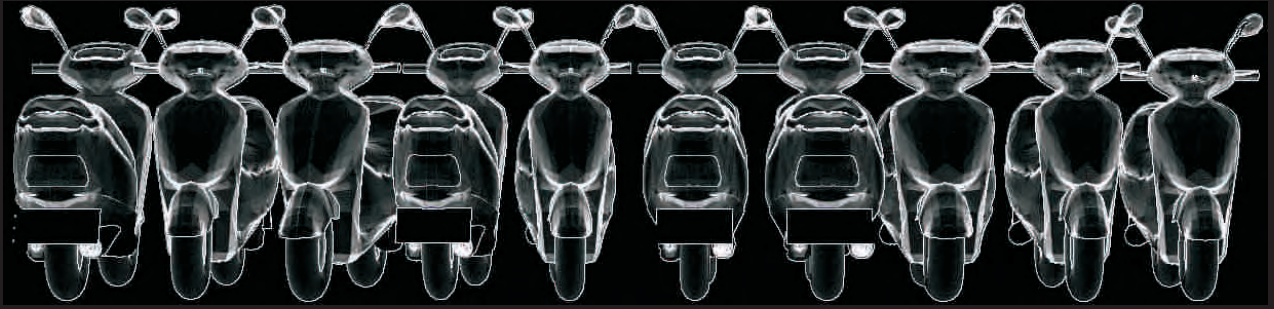




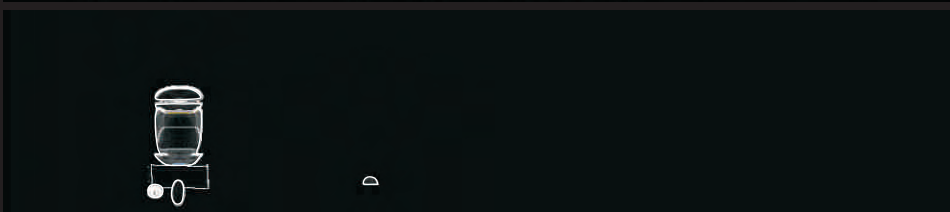
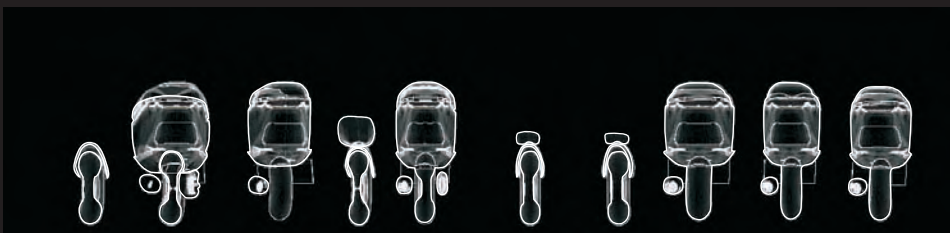
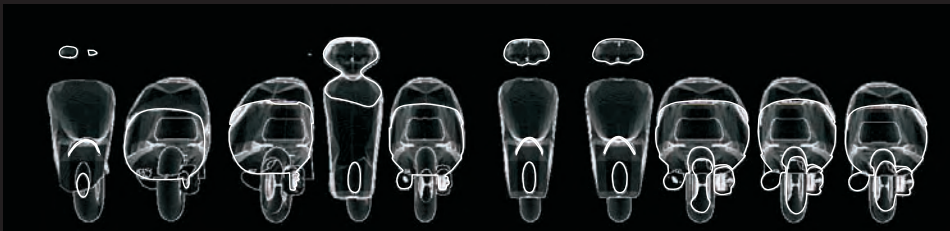
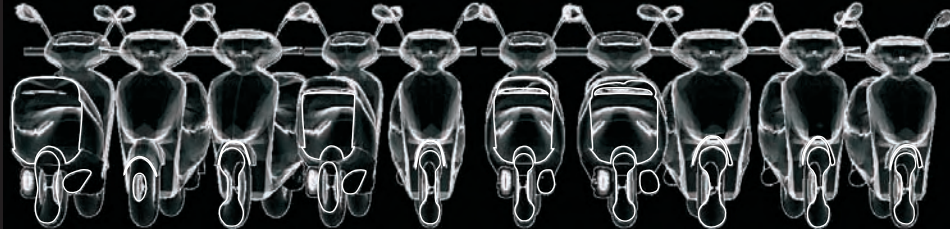


因車體是最完整醒目的區塊，將其取出附於PVC板上，看能否界定出車與車間的關係。  
再依據板上的秩序用方框來描繪。

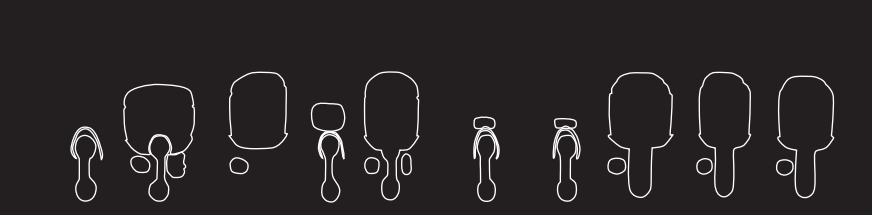
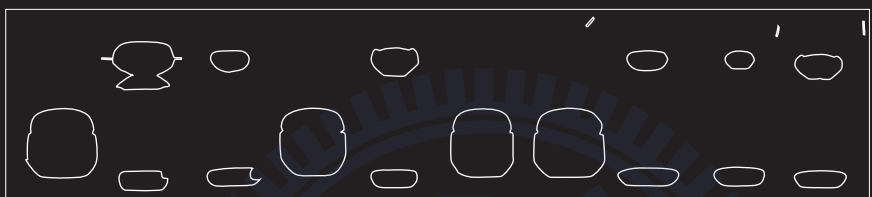
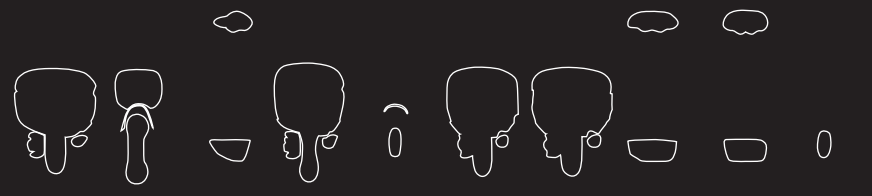
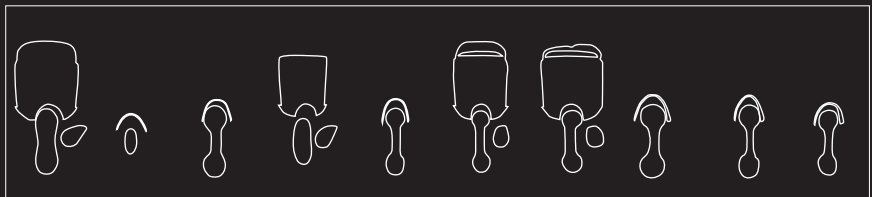


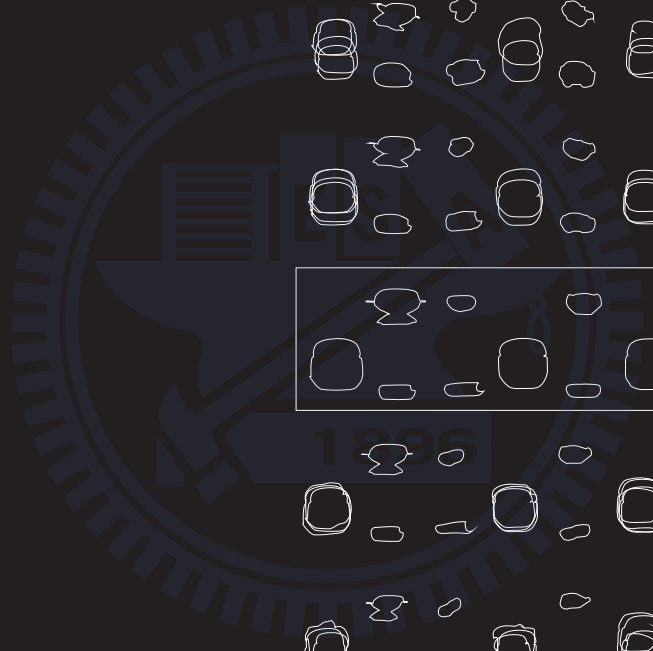
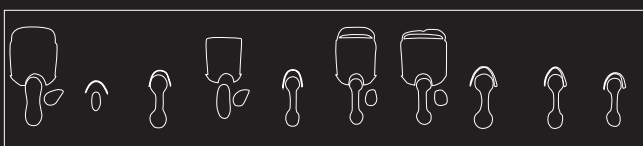


為簡化改以同一型式的機車排放整齊再切一次剖面。

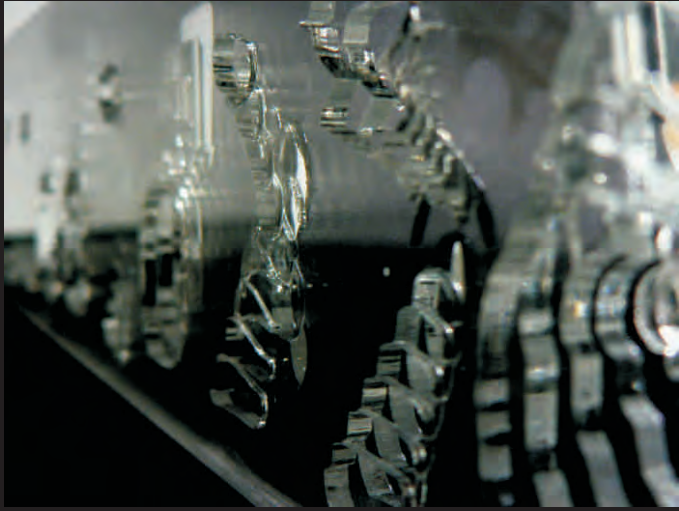


在七個剖面中擷取三個來當型變的基底。









模擬機車的前後左右錯位。

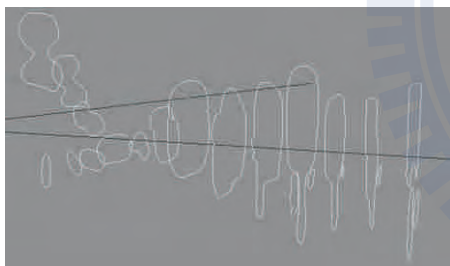








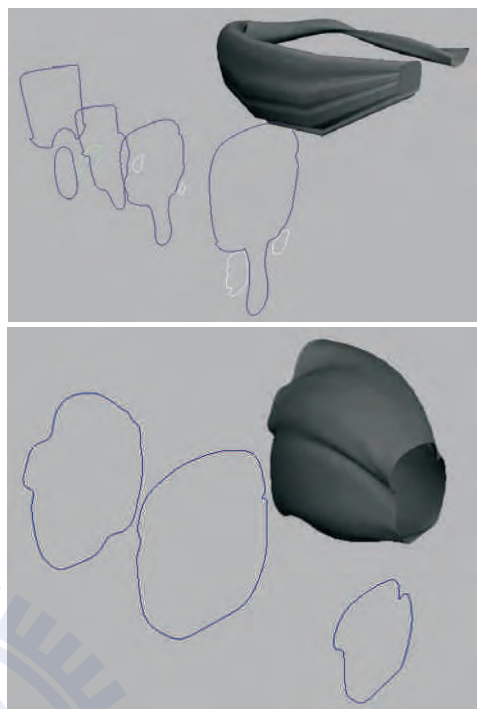
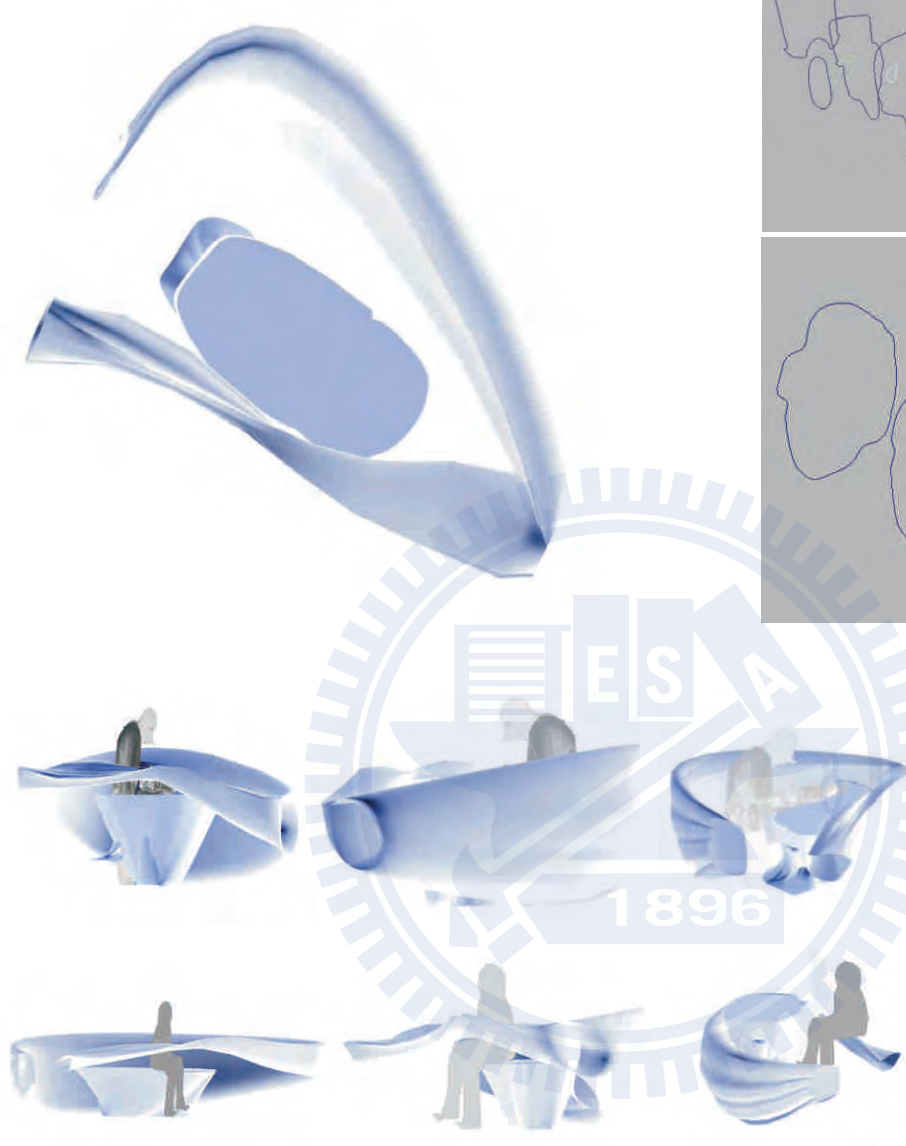
機車本身就有很多乘坐的方式，也許這些剖面弄出的型變就可以是簡單家具。



取出不同片段去loft出基本型再定義他的scale。

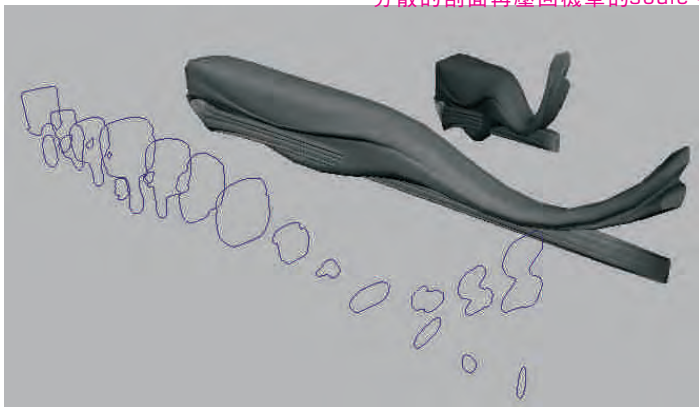


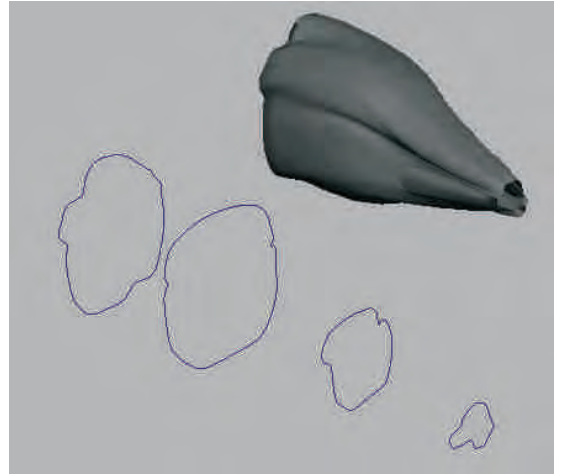




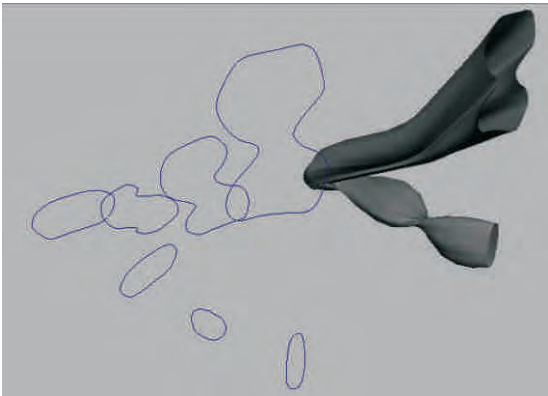
排氣管與座椅的組合。

分散的剖面再壓回機車的scale。





固定樹木所用的支撐架，是由座椅來的。



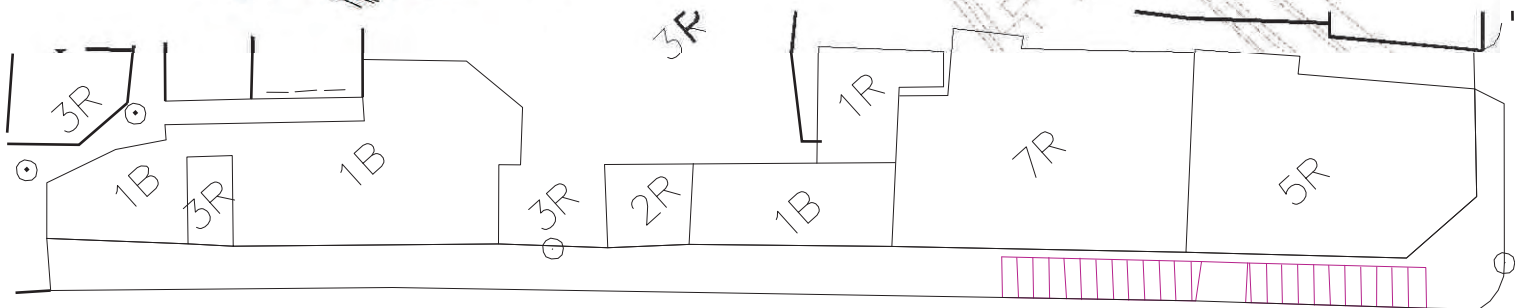
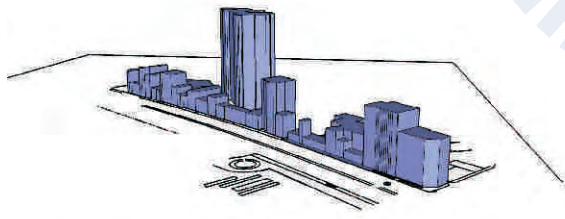
機車前端形成的告示光牌。







1/3000



不適合的基地，光復路人行道，沒有騎樓會造成阻隔。



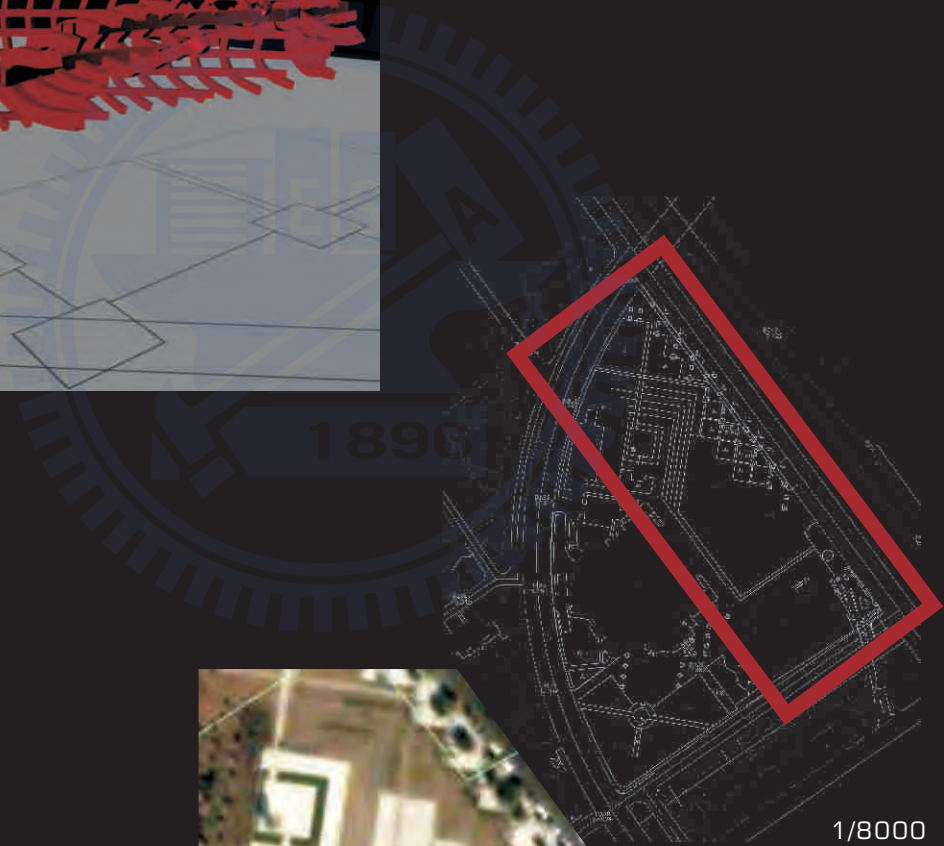
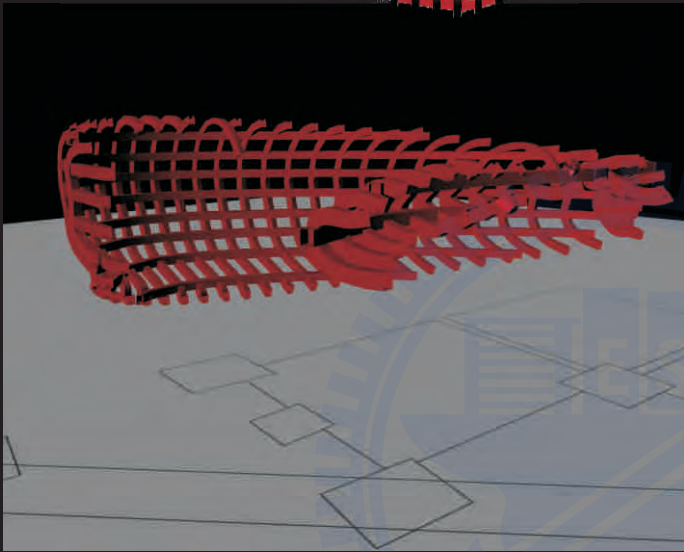
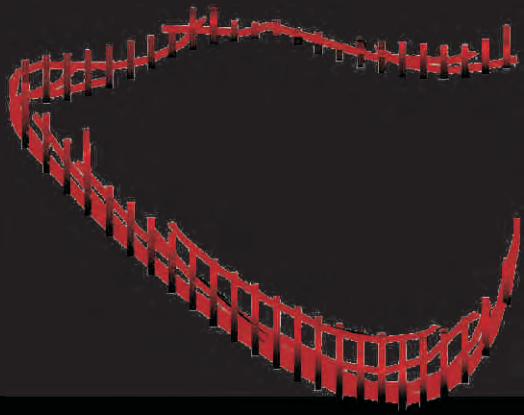
# 新竹市文化局演藝廳



1896



一個有多元活動的地方，用機車形成的各種家具再放回人行道去界定其界面，反變為人所使用的空間。

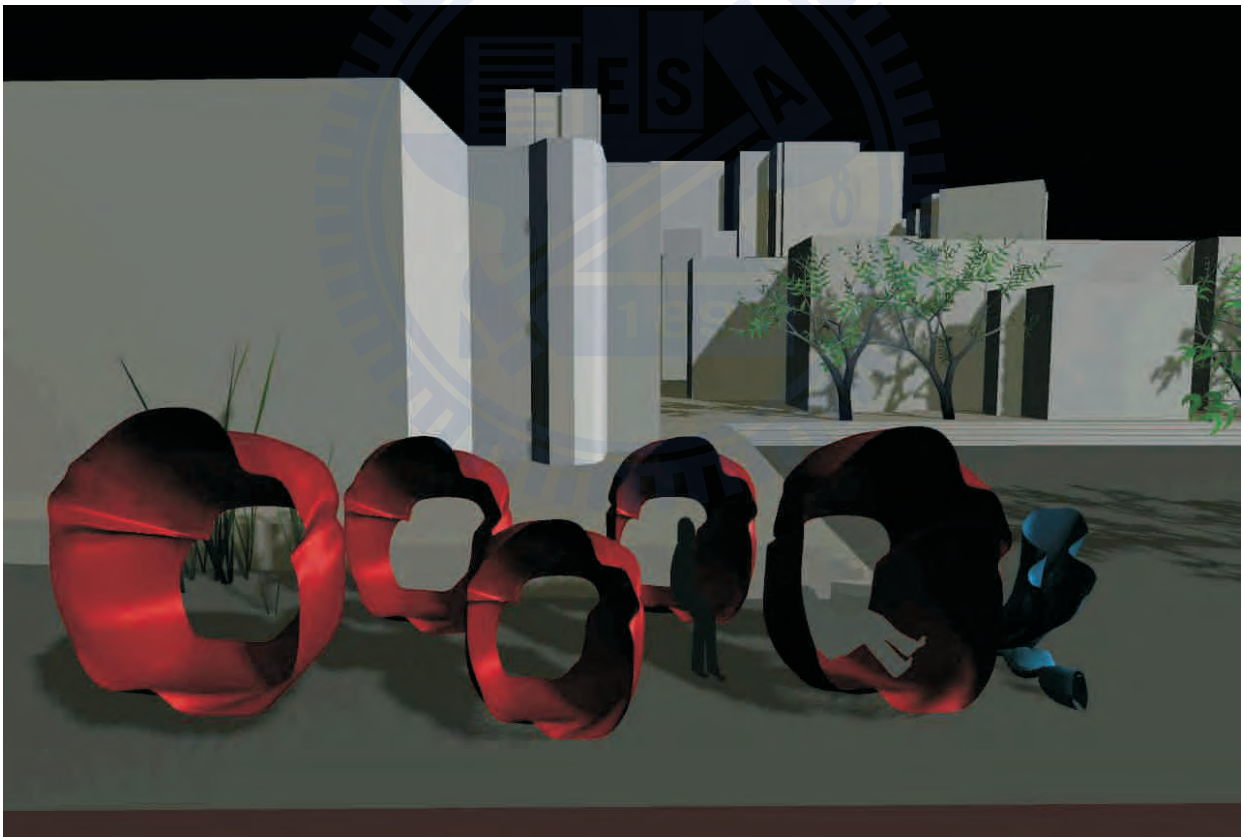


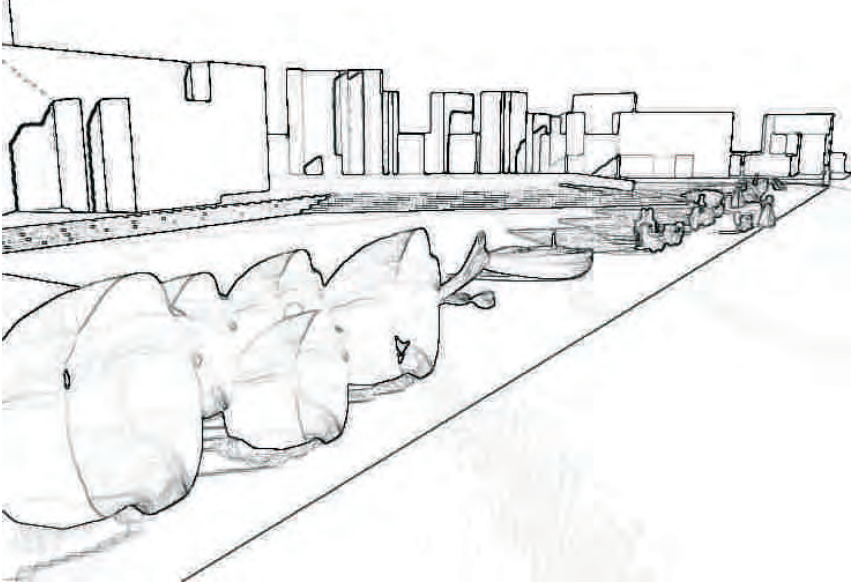
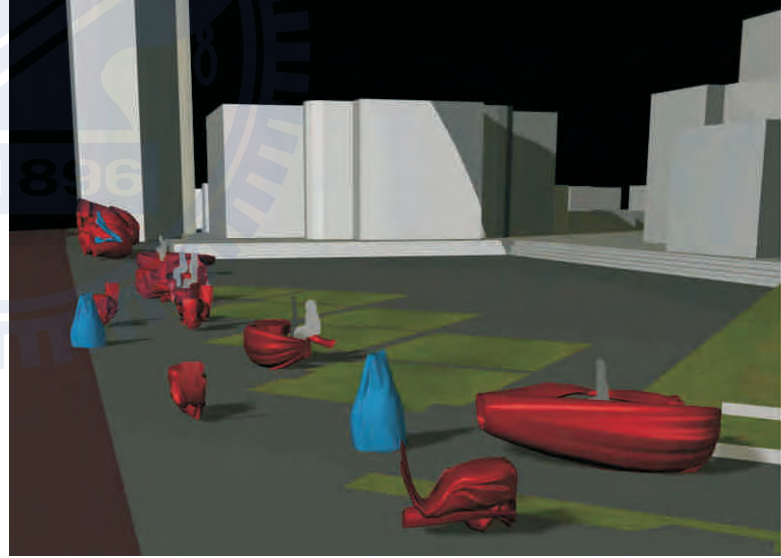
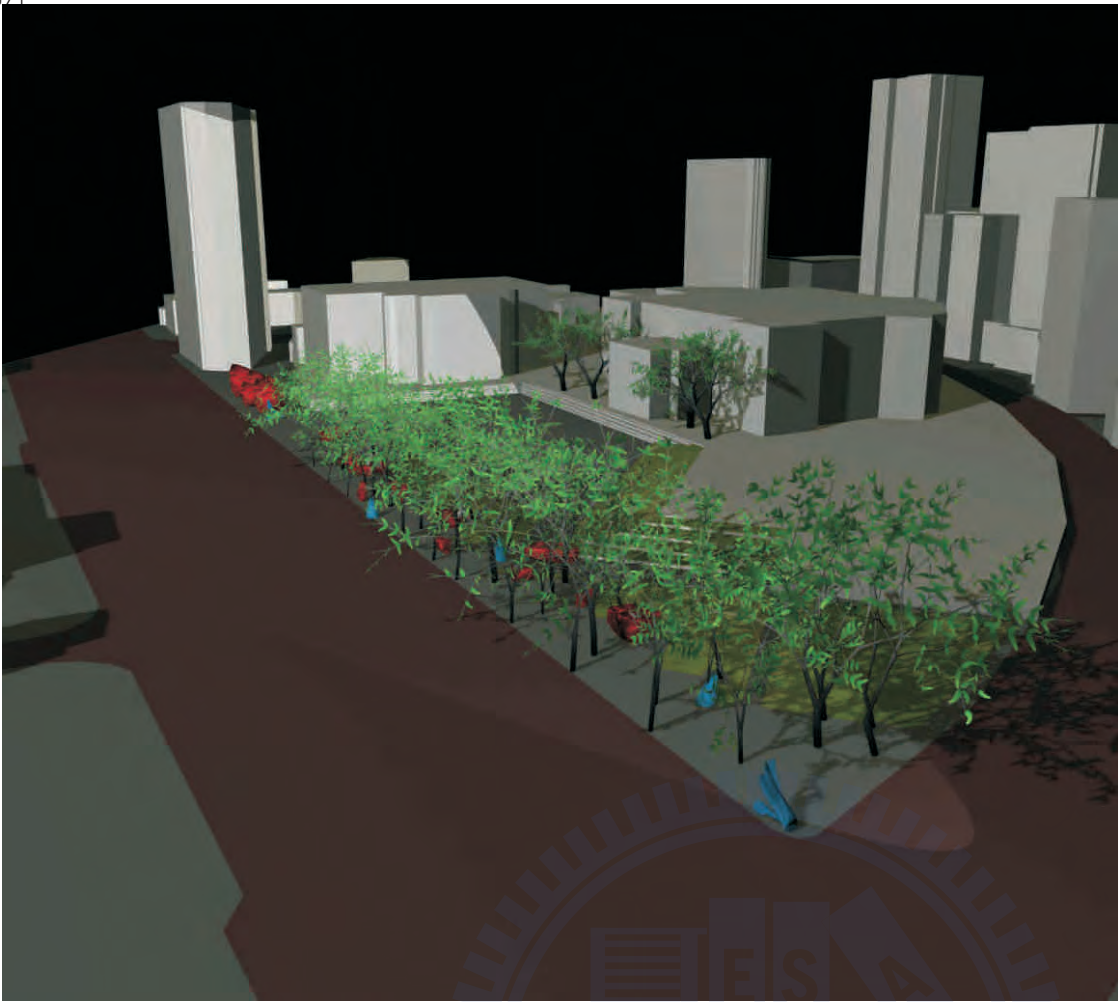
1/8000







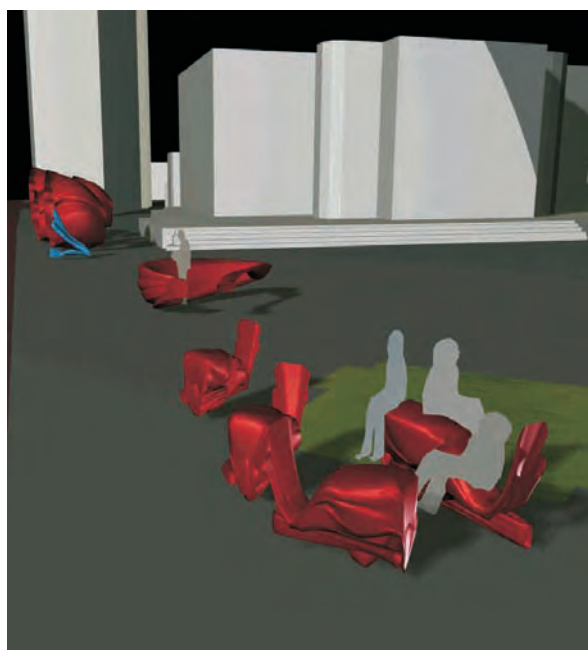








將樹木環進人所休憩的空間中，依原有的樹木及草皮來定位。





From David Patin, Rennes, France

Jarmie and her family came to Paris to taste some grandeur and decadence out of France. Grands were our miles, for we walked all afternoon. But the tea I tasted during the... The group was always smiling and kind, and I enjoyed spending time with them discussing, taking family pics or just wandering downtown. They even tried my smellee cheese!!

From Ana Vargas and Inês Lua Porto, Porto, Portugal

It was an absolute pleasure to host Jarmie at our home... she is incredibly sweet and eager to know different places... we were very very sorry that our work took us so much time... spend as much time with her as we would like to... still, it feels that a beautiful sunshine from china entered our home and made it warmer :) hope to see you some day, somewhere

From Wan-Yu Lin, Leuven, Belgium

It's my honor to have her in my place. She is very considerate and interesting person. Through her eyes, I've discovered another side of Belgium. During her stay, I didn't feel both... her for a longer stay.

From Medha Low, Amsterdam, Netherlands

It was indeed very nice to know ChaiWen, although our interaction was only for 2 days. We were very impressed with her stamina and energy. She also had some very interesting...

From Lena Karlsson, Tomtebodavägen, Sweden

This is one truly wonderful person. She stayed with us a little longer and from the moment she left us, we miss her already. Meet with, surf with and host Jarmie. She is always we...

From Boróka Fehér, Budapest, Hungary

Giagiar stayed in Budapest for a few days. We spent one afternoon walking around in my neighborhood, visiting parks and looking at different buildings - not the touristy heart... impressed in everything. She told me about her home country, and now I really want to go and visit Taiwan. She also helped me make friends with the new Chinese buffet in my bui... in their establishment.

From Mirka Vavrova, Vienna, Austria

Jarmie came with 4 taiwanese friends to stay with me for 3 nights, who were all exchange students in Sweden. They were such great guests to have around! Considerate, inc... and talking, teaching me about taiwanese culture and food. Thank you so much! And thanks a lot for the wonderful gifts. You can come back any time.

From Carol Mueschler, Frankfurt am Main, Germany

Chai Wen Tsai is a very friendly person. It was easy to spend a couple of days with her. She also brought me some present from Sweden and Taiwan... so, that was more than I... Aebjelvbi\*gg\*

From Anna Czarwien, Krakow, Poland

Giagiar is a very nice and gentle person and she has a many interesting information about Taiwan and Sweden :)

From Min Li, Oslo, Norway

We traveled in Prague together for two days and had a great time together! She is the best travel companion we could have had. Prepared, punctual, easy-going, brave and always... again, maybe to Africa or Australia, one of the few continents she has not been to yet. We are lucky to be her friends!

From Helge Borchsenius, Oslo, Norway

ChiaWen came to the restaurant to eat dinner with us, even though she had not totally recovered from her illness. She showed great determination for such a cute, lovely girl... around the table.

From Nikos Kapetanios, Milano, Italy

I had already said yes... and then I had to travel so I left my home brought a friend that spoke really good about them. Hope to meet u one day and thanks for the sweets...

From Jana Fröberg, Oslo, Norway

I can recommend you to host ChiaWen and her friends if you want some happiness and good laughs! I'm very glad to have met them, it was sad they were so busy touring... more otherwise; taken even more photos of each other, and discussed our different cultures more deeply. They all made me wanna go to Taiwan!

From David Hagerhorn, Stockholm, Sweden

The girl with many names... :) Whatever name I will remember her as a sweet, smart and cool girl who will go far in this world. She and her friend Cheer came to my place first and t... by my group and the one that was very dear was little Giagiar! Keeping total control of the gang! :D We talked a lot and I really liked her! and I hope she will come back to Stockho...

From JOLI, SWE, Bandhagen, Sweden

Giagiar and her friend Cheer stayed at my place for one night and made me some delicious fried rice! They also told me about places to see in Taiwan. Very sweet and positive girls.

From Claudio Tessarin, Venice, Italy

I am forced to leave a reference for Tsai ChiaWen Giagiar and Ying... :) I have hosted them some days ago before Christmas. Dear CS Host, are you a bit sad, are you stressed, are you like to continue so? Please invite Ying and Tsai to your home. They are as the famous breeze of our dream in the tropical island where we are sitting in a comfortable chair in a... intelligent, and very good cooks... you must try one or better more of their national and international specialities... Thank you very much my God for your Christmas present.

作 語 書 理

## 第三章

enic was prolee beneficial to make such a long visit.

- much more than expected at first- and we couldnt  
e in the world Jermie! Enjoy Madrid!

ered but a wonderful accompany. I wish I'd promised

periences to share about her earlier travels.

lcome back. As a family member. L

of Budapest at all. Giargiar was polite, easy-going,  
ding, as they were surprised to see an oriental face

ependent and very warm-hearted. Always laughing

expected :) And she liked the typical Hessian drink:

ays in good mood. We look forward traveling with her

Smiling and laughing, she spread joy to the others

during the days actually, we could've hung out even

hen came, Karen, Amber, Monica, Yang and Andy. A  
m again before she goes back to Taiwan!

Maybe we'll meet again in Taiwan!

e you looking for a bit of joy, or your life is so nice and  
nice athmosphere.... After that they are very kind,  
Claudio





## Spiral Jetty – Robert Smithson

- April 1970
- Rozel Point, Great Salt Lake, Utah
- mud, precipitated salt crystals, rocks, water
- coil 1500' long and 15' wide
- Great Serpent Mound
  - Pre-Columbian Indian monument
  - Southwestern Ohio



### Site / Non-Site

- Site
  - 在特定的戶外空間
  - 運用現地材料
 (含鹽量 海藻、細菌)

### •Inaccessibility

- Photo
- Film



Entropy (a condition that is moving toward a gradual equilibrium)

- 非線性現象
- 大自然的幾何學
- 維度、尺度、結構
  - 分數維度
  - 尺度無關性
  - 自我模仿性
  - 有限區域的無限結構
  - 隱含一種整體性
  - 觀察手段的相對結果
  - 非線性動力過程的結果
- Levy Curve

### Location

台中。高美濕地



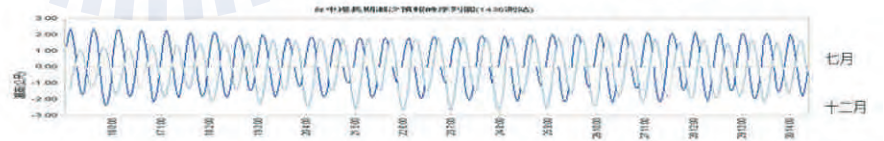
Time past V.S. now



Site V.S. Tide

One day

1896



### Visit

Neglect V.S. Treasure





Artificial



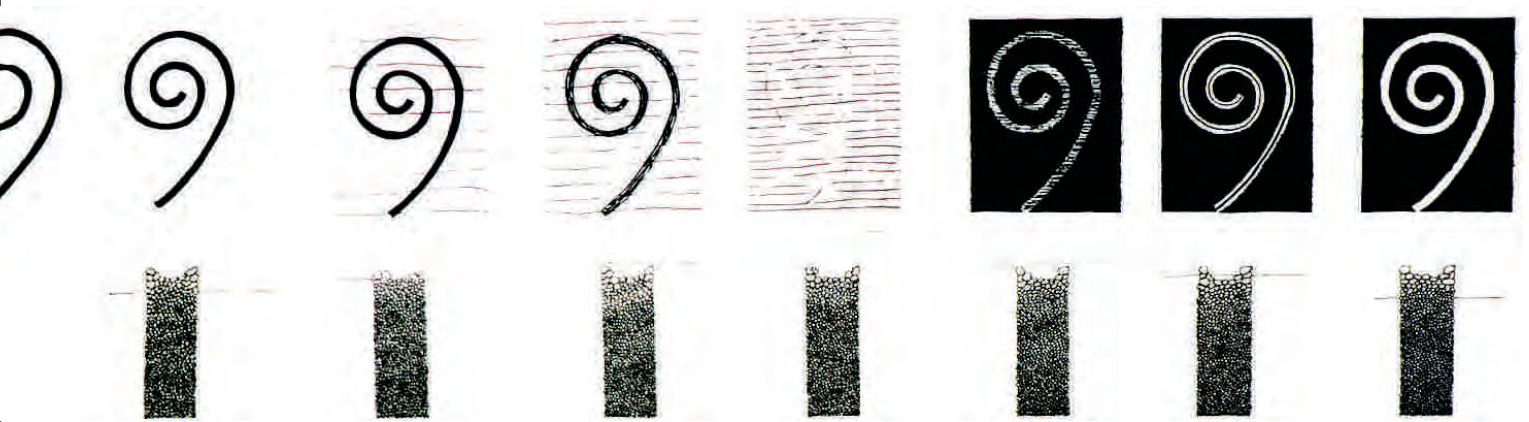
Micro V.S. Macro  
<Scale>



Direction V.S. Entropy  
<Equilibrium>



Natural



Red alga V.S. Color

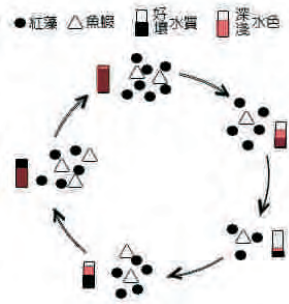
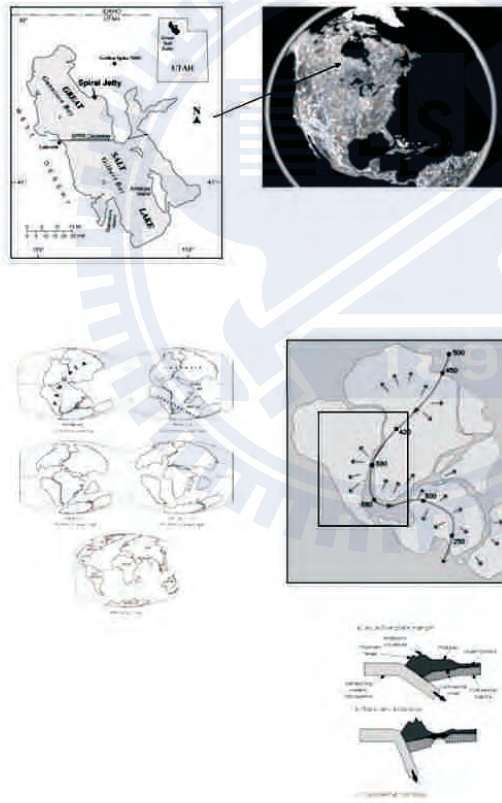


Plate Movement



Work V.S. Environment  
<Height>

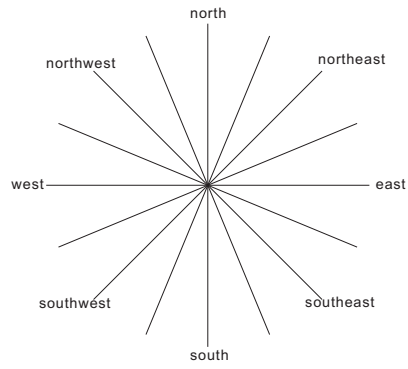
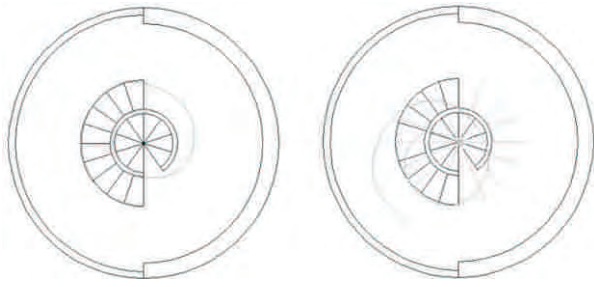


Complementary & Container  
<Rock. Water>

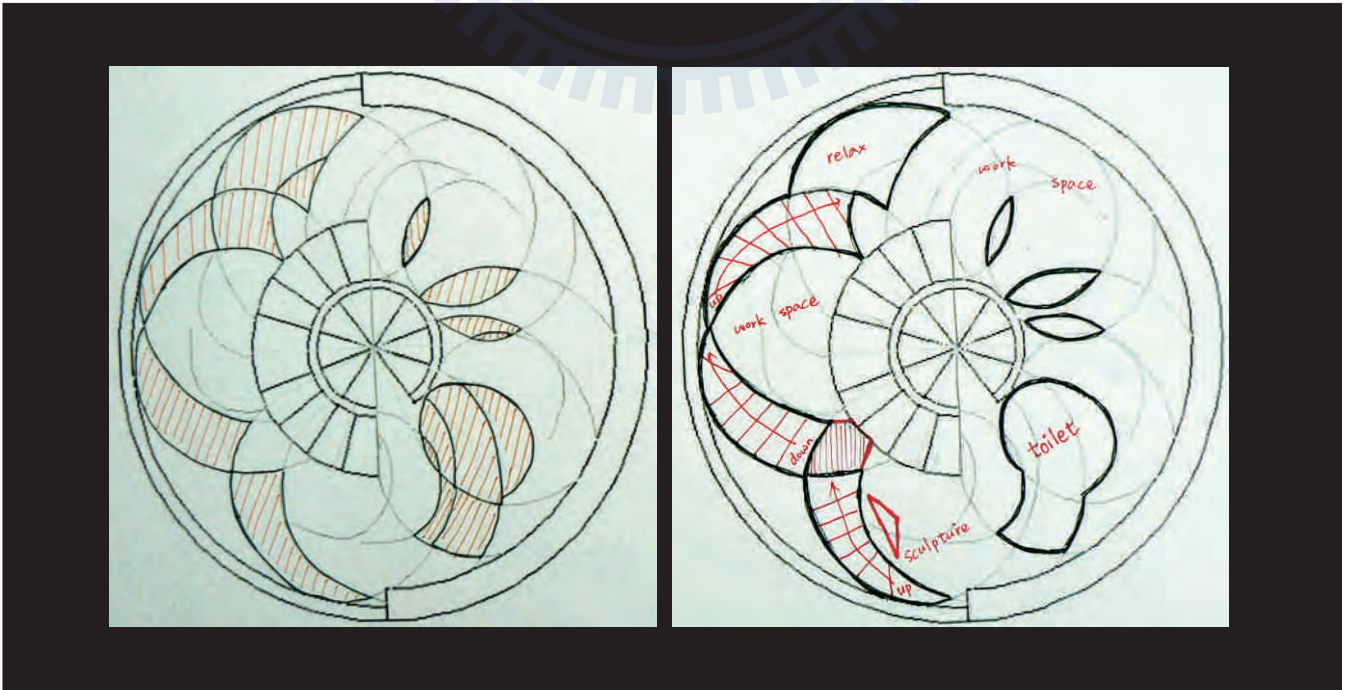
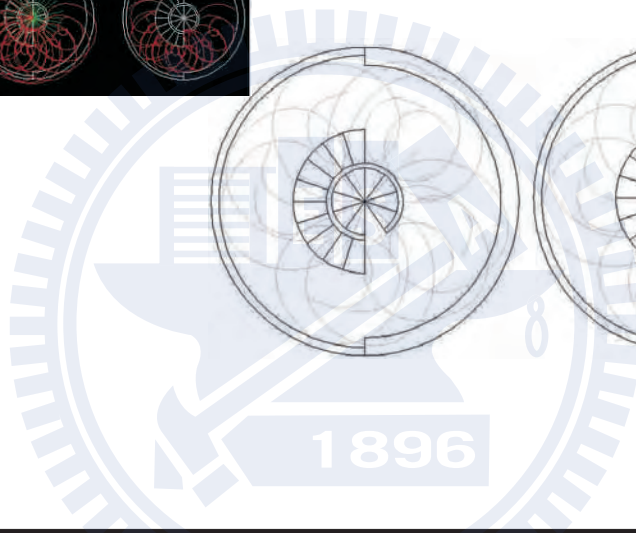
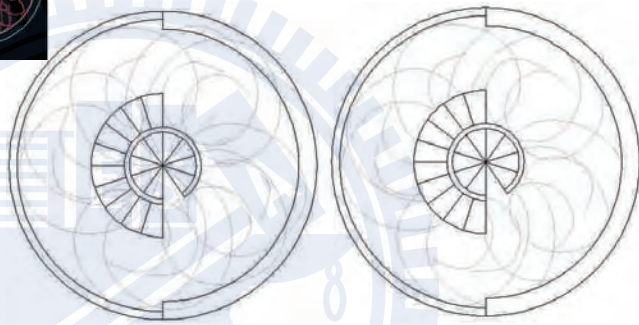
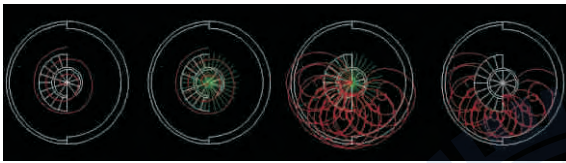




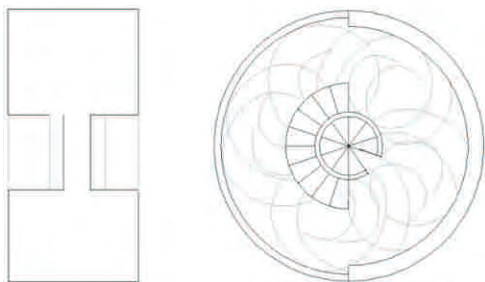
2nd floor



south by west  
 southwest by south  
 southwest by west  
 west by south  
 west  
 west by north  
 northwest by west  
 northwest by north  
 north by west  
 by: →



## Path

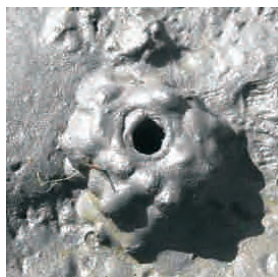


## Complementary



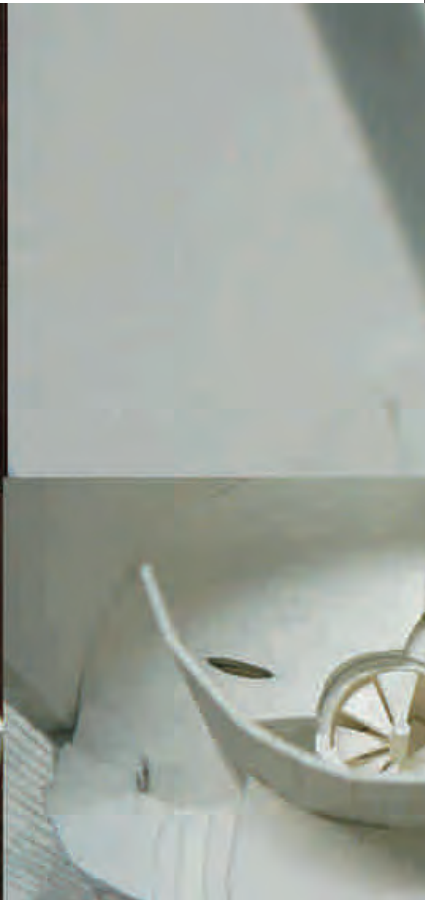
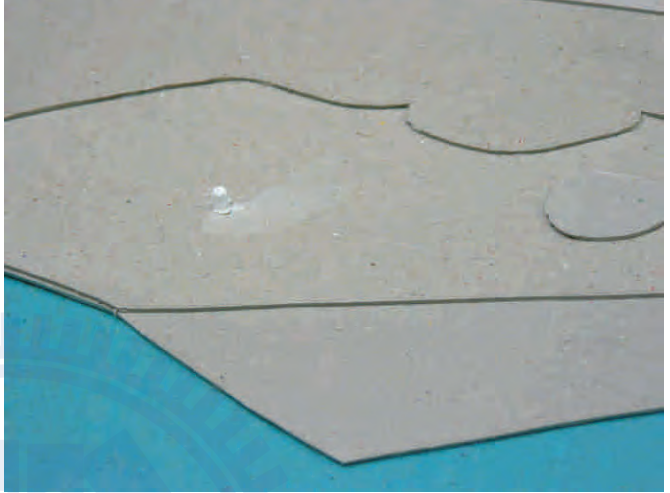
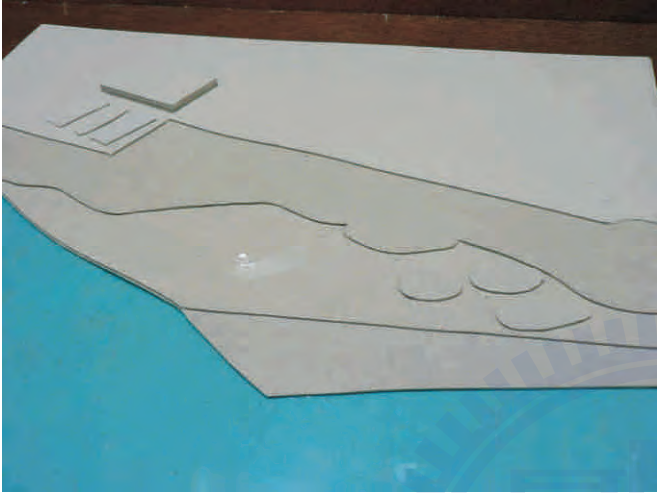
In this project we have to do some research about the landscape artist, Robert Smithson. One of his important concepts is Site & Non-site. The main idea of his creation is to remind people somewhere that was forgotten. He wants to bring people back again. We must choose one of his great work and a site to be our new concept then design a gallery for his work.

My choice is his most famous work, spiral jetty. It changes by time, human and nature which exactly matches Smithson's thinking. The site I chose is a wetland. An important issue on wetland is environmental protection. How to find the balance between human and nature is a big problem. My design concept included the film that has the same name as spiral jetty. It gave me the direction of 2nd floor.



ROBERT SMITHSON / JAMES COHAN GALLERY









THEME

23 VAR. I

40 VAR. II

74 VAR. III

97 VAR. IV

127 VAR. V

143 VAR. VI

169 VAR. VII

187 VAR. VIII

217 VAR. IX

VAR. VIII

VAR. IX

VAR. X

VAR. XI  
Adagio

VAR. XII  
Allegro

154 VAR. X

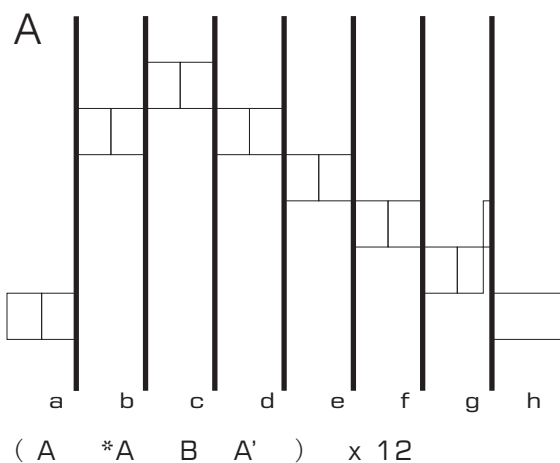
VAR. XI  
261 Adagio

264

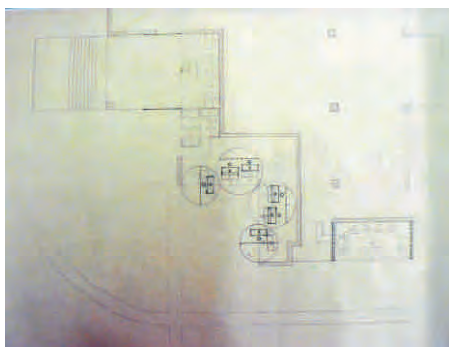
VAR. XII  
271 Allegro

274



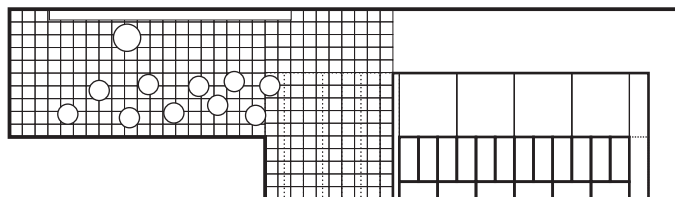
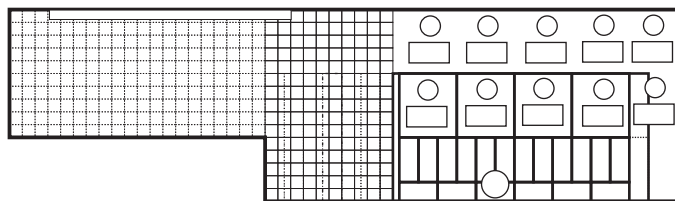
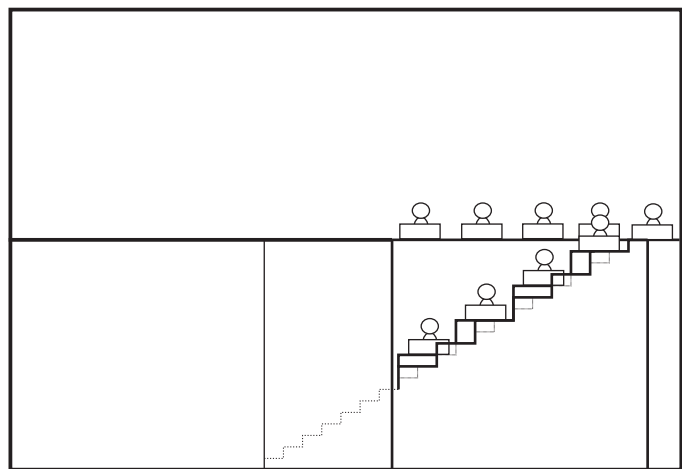


Ah, vous dirai-je, Maman is well-known as Twinkle, twinkle little stars. This variations was created by Mozart. From the notes I found every part has some relation to each other. The tone were similar but the rhythm were different. Use this character, I draw the diagram above to describe the relationship between every part of the song.

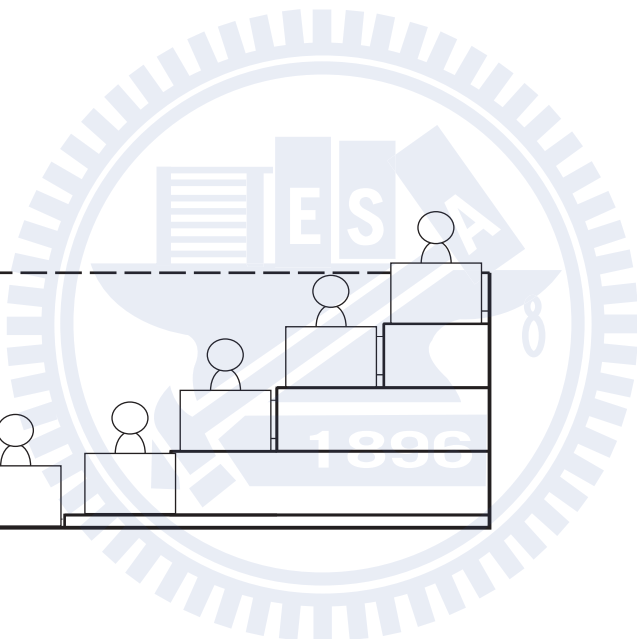
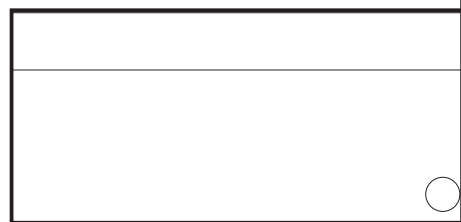
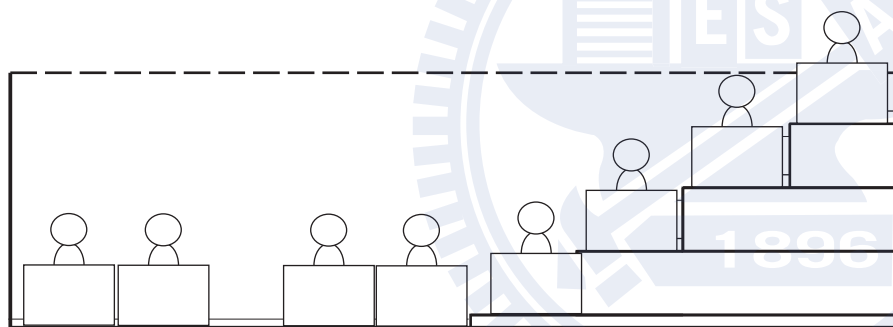




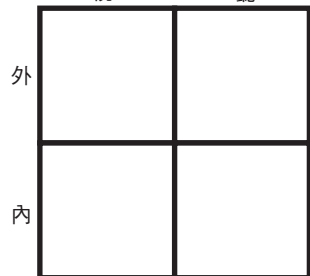
初級班



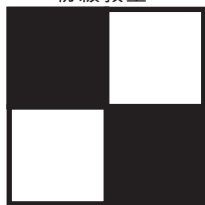
高級班



視 聽



初級教室



中級教室



高級教室



音磚室



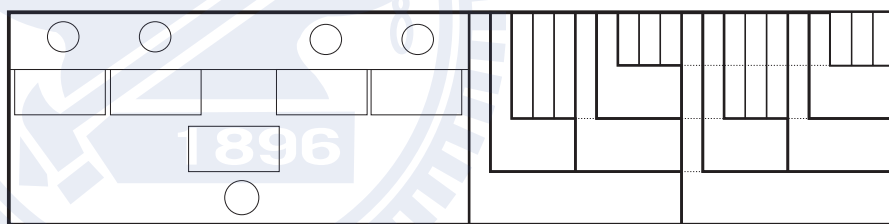
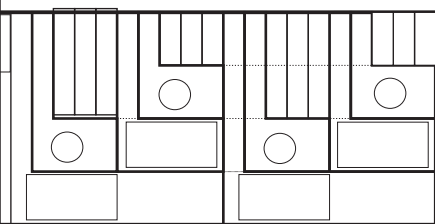
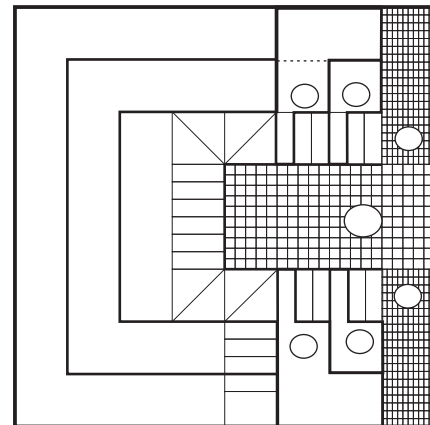
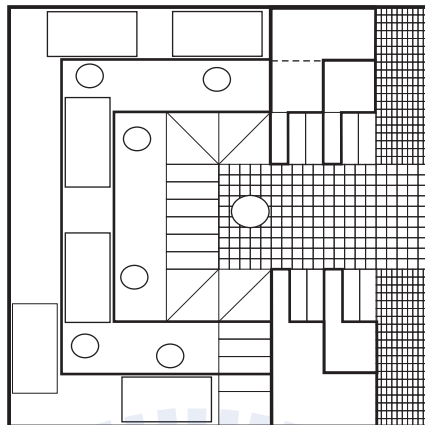
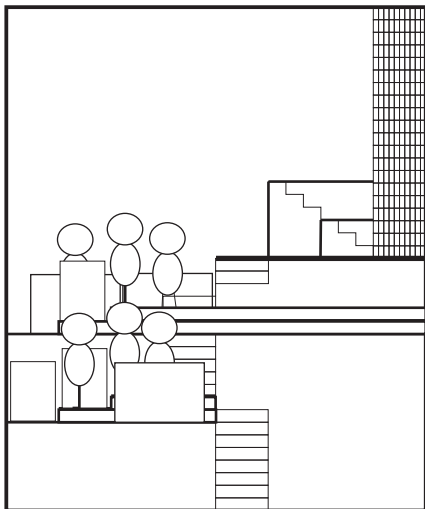
對內表演場



否

可

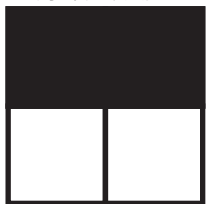
## 中級班



## 練習室



## 對外表演場



Xylophone is the instrument I chose for the music hall. It is not only a percussion instrument but also has tones. Therefore I think it is a ideal instrument for children. It can strengthen the feeling of rhythm for young children and can learn melody by older ones. Besides, the different length of the keys correspond to vision. Different seat arrangement can fit their requirement and also the program. People can see and hear the best part of this teaching program. It will be an attraction to people who pass by.

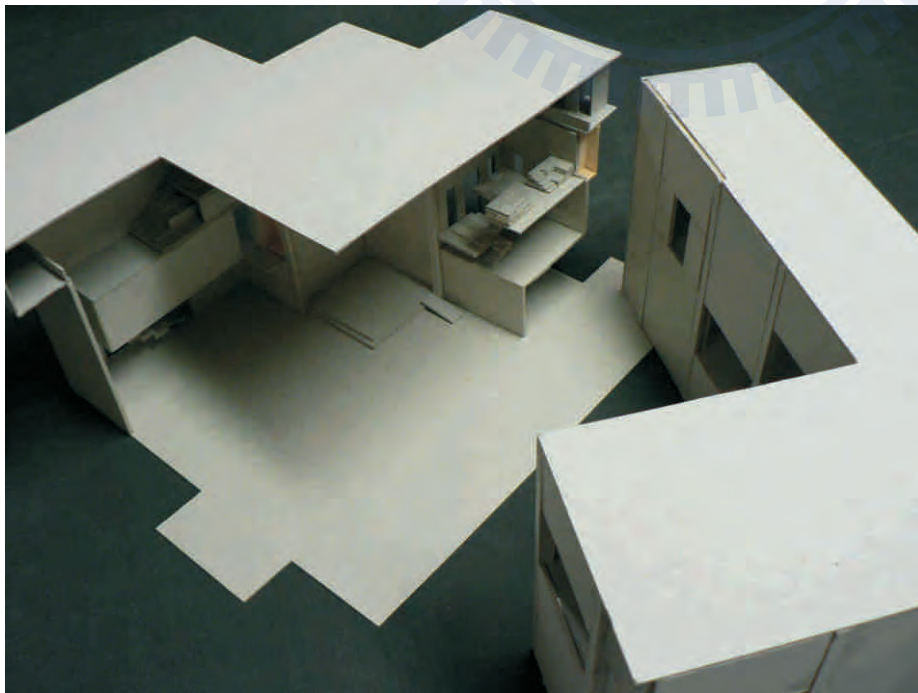
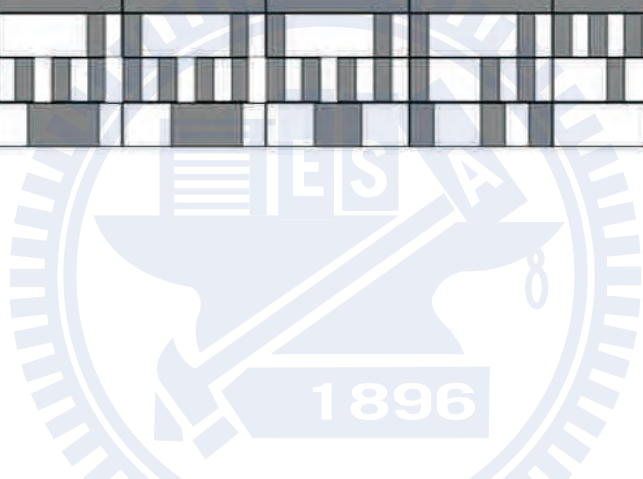
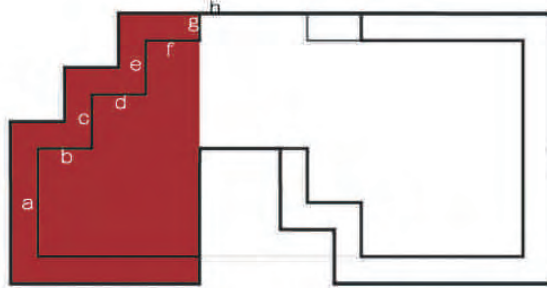
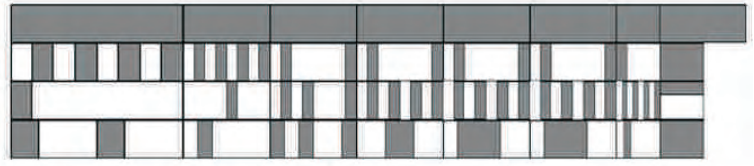


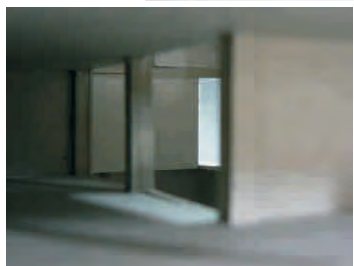
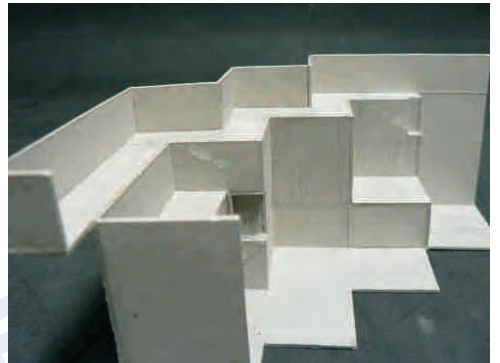
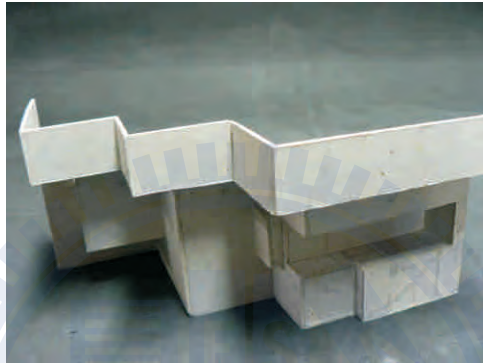
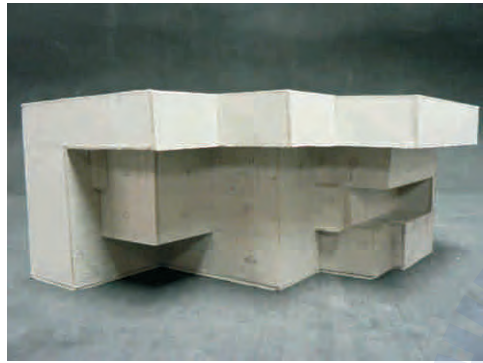
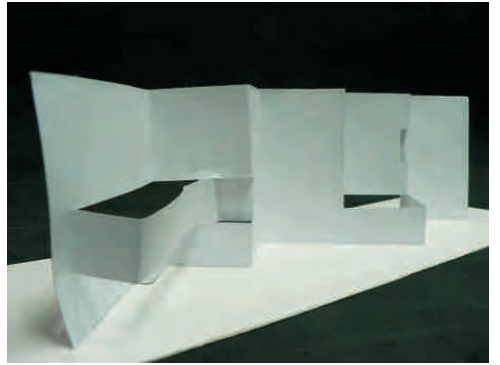
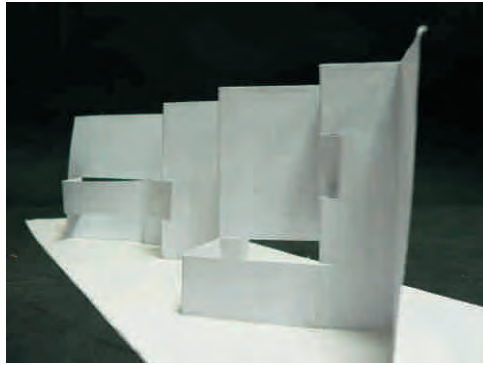
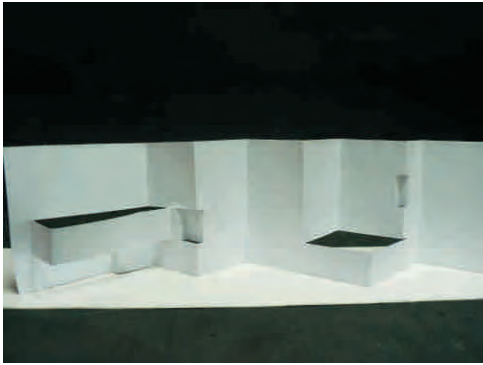
Program介入

Diagram對應

- 主旋律
- 各小節之規則與變化
- 兩段間的呼應
- 不同斷間相異節奏的對照

要被看見



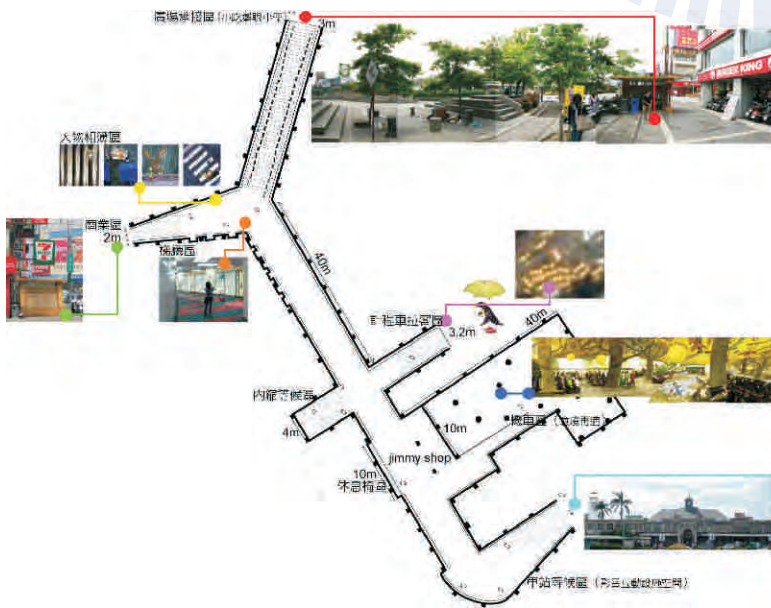
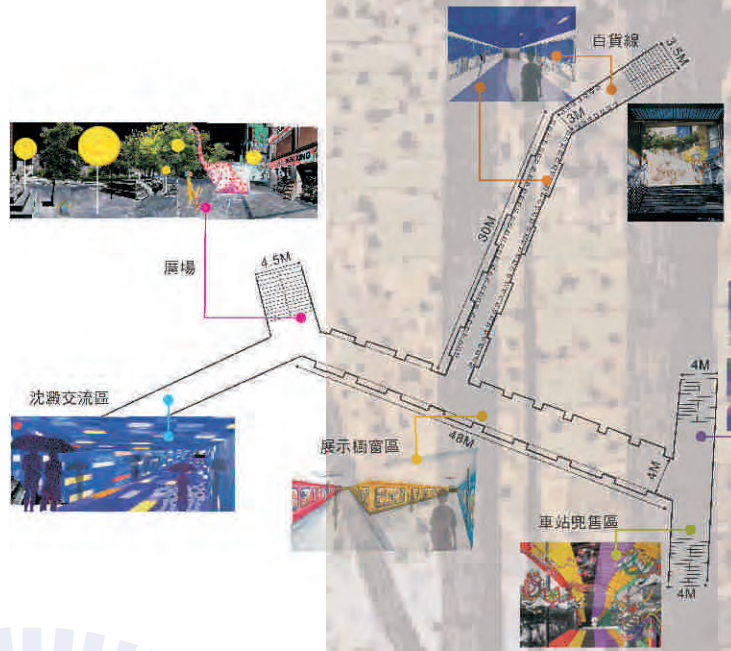




We're extremely fortunate not to know precisely the kind of world we live. -W. Szyborska  
 我們何其幸運 無法確知  
 我們活在什麼樣的世界 -辛波絲卡

Jimmy uses writing and pictures to lead people into the imaginary world successfully. Take "The Sound of Colors - A Journey of Imagination" as script, the musical drama became a fad or vogue. Various scenes relate to different stories.

Let characters to appear again in new stories is one of his design trick. Therefore we leave the plot aside and carry the structure of The Sound of Colors into the underground passage in this design. Find out scenes in Jimmy's work to arrange different exits according to their properties. Looking forward to bringing the discarded underground passage new

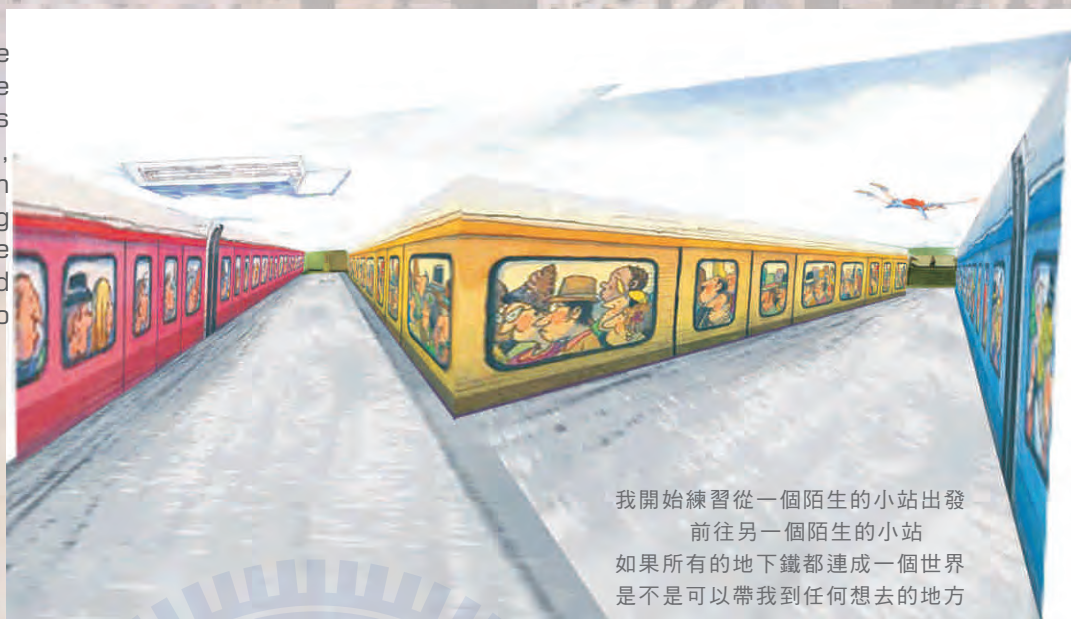






## FIRST STOP

The stream of people come and go in the carriage. During this short encounter, people have their own stories and keep taking place in the enclosed environment. Would you like to join them to have daydreams?



我開始練習從一個陌生的小站出發  
前往另一個陌生的小站  
如果所有的地下鐵都連成一個世界  
是不是可以帶我到任何想去的地方



## SECOND STOP

How long haven't you expect for something? Will there be any surprise happened near by? Every door of the elevator is a showcase. Some are open and some are close. You can guess what's the next.



在這個城市裡 我不斷地迷路  
不斷地坐錯車 並一再下錯車  
常常不知道自己在哪裡 要去什麼地方



Elevator Gallery





## 月亮忘記了

我走出地下鐵 陽光溫暖的灑下  
 葉子掉落的声音 有一種緩慢而愉快的節奏  
 聽說這裡藏著一片金葉子



## 禮品店 >>

幾米以更純熟的圖像與意念，再一次讓我們因生命中的「錯置」，體會現實的殘酷與幸福的易逝。生命中，不斷的有人離開或進入。

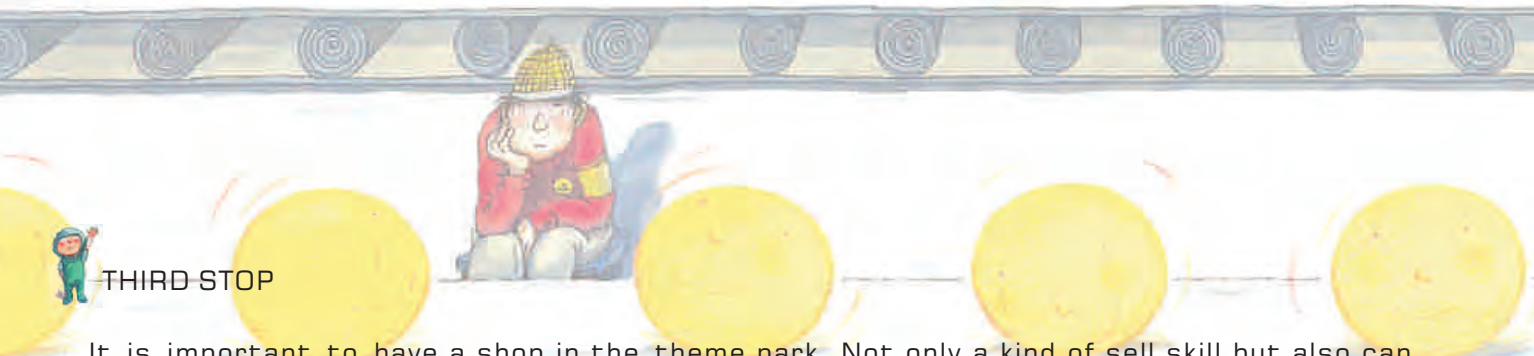
於是，看見的，看不見了；記住的，遺忘了。

生命中，不斷的有得到和失落。

於是，看不見的，看見了；遺忘的，記住了。

然而，看不見的，是不是就等於不存在？  
 記住的，是不是永遠不會消失？

幾米的畫筆，再次畫出了變幻無常的美麗。



## THIRD STOP

It is important to have a shop in the theme park. Not only a kind of sell skill but also can fulfill one's desire and motivate people to come. MoonForget is the first book that published products related to the images in the story. The warm and fragrant scene can make people feel that they can rely on this place. It's a spot that suitable for stay as well.



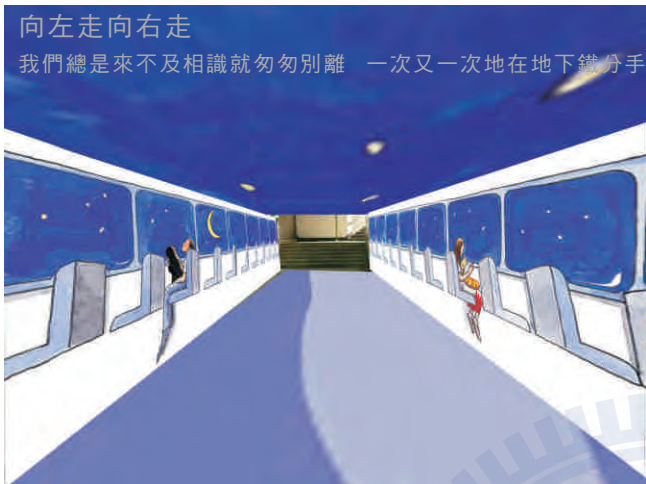


#### FOURTH STOP

Don't forget to relax on time! Have a stay here to see what others doing. Why they are in a hurry? Why they look so sad? Do they have something worth to have a big smile?

##### 向左走向右走

我們總是來不及相識就匆匆別離 一次又一次地在地下鐵分手



##### 黑白異境

我小心翼翼地走進這無風無語 不斷向下探去的深邃地道  
聽到自己孤單的腳步聲 迴盪在寂寥的空氣中

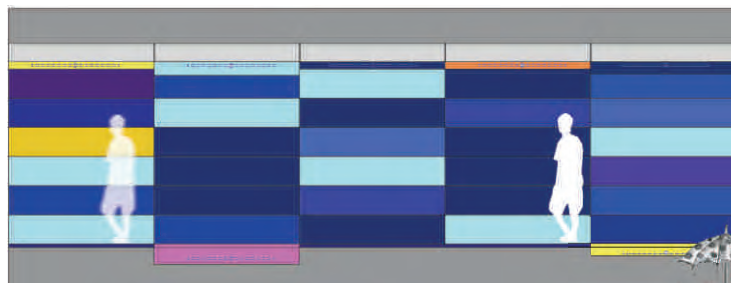
世界突然暗了 是誰在惡作劇 我茫然摸索 再也找不到光的源頭  
走道轉角傳來低聲吟唱的悲涼歌聲 他也有著與我相同的憂傷嗎

昨日的悲傷 我已遺忘 可以遺忘的 都不再重要了



#### FIFTH STOP

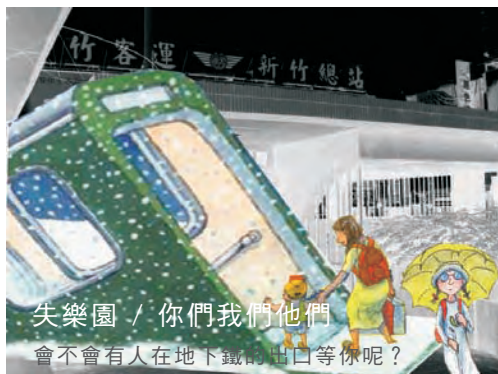
A passage between two parts of the underground passage. Make it dark and with some decorated light. Slow down your step, try to find out some answers to you life.



##### sharing space >>

男男女女、老老少少、高矮胖瘦，一個一個的“小姿人”，有著不同的面容與人態，他們各自存在異境，上演不同戲碼，在幾米的異想世界裡，蜿蜒著人生的倒影，牽動著你的情緒。





失樂園 / 你們我們他們  
會不會有人在地下鐵的出口等你呢？



你固定在哪一站上車 在哪一站下車  
車站中的人群總是這麼來去匆匆

### 車站 >>

失樂園是一個地方，一種心境，一種色彩。幾米在《失樂園》裡創造了數十位小朋友，以各種獨特的方式為受傷的心發聲。這些角色中，有的害羞寂寞，有的世故早熟，有的遺失了童年，有的終日尋求不可知的答案……他們天真的話語表達了我們內心曾有的困惑，所有不被理解的情緒，在失樂園裡都得到了撫慰。如果我們安靜傾聽，就可以感受到失樂園裡溫柔的光，看到彩虹以微笑的姿勢出現。



### SIXTH STOP

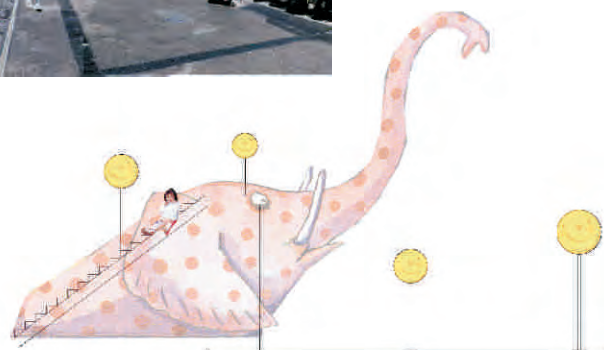
Is there anyone waiting for you at the exit of the passage? After you go out of this underground passage system, reality is waiting for you. Taxies and buses, all kind of stores and all the businessmen. Face the truth!



### 攤販 >>

《照相本子》，幾米是攝影師、主人翁、配角以及佈景，他是誰不重要，重要的是他玩得很高興，這種高興揉合了許多種記憶元素，歡樂的、憂愁的、哀傷的...但這些記憶經過翻轉進入書中，我們看到的已經不是幾米直接的記憶，而是經過轉折後的動人，而這動人的畫面又揉合了我們自己的記憶，歡樂的、憂愁的、哀傷的...《照相本子》請慢慢讀它，用你自己的記憶語言。

我們為什麼工作？為了捕捉流星，為了一份等待孤寂的美麗？你如何介紹自己？樹頂哲學家，消費者，還是夾縫人？你最討厭的事是什麼？你的夢想在何處？.....



### SEVENTH STOP

照相本子 / 履歷表

這一站是終點 還是另一個起點



## 馬路 &gt;&gt;

董事長從小就是個幸運兒，他什麼都有，而且都是最好的。董事長聰明過人，事事都被要求第一，他從來也沒讓人失望過。董事長又帥又能幹，父母優雅開明，太太美麗賢淑，兒女乖巧可愛。許多人一輩子辛苦追尋的夢想，董事長都輕易擁有。人人都喜歡董事長。董事長的一切都讓人既羨慕又忌妒，但更讓人受不了的是，有一天，上蒼忽然賜給他一個神奇的禮物……

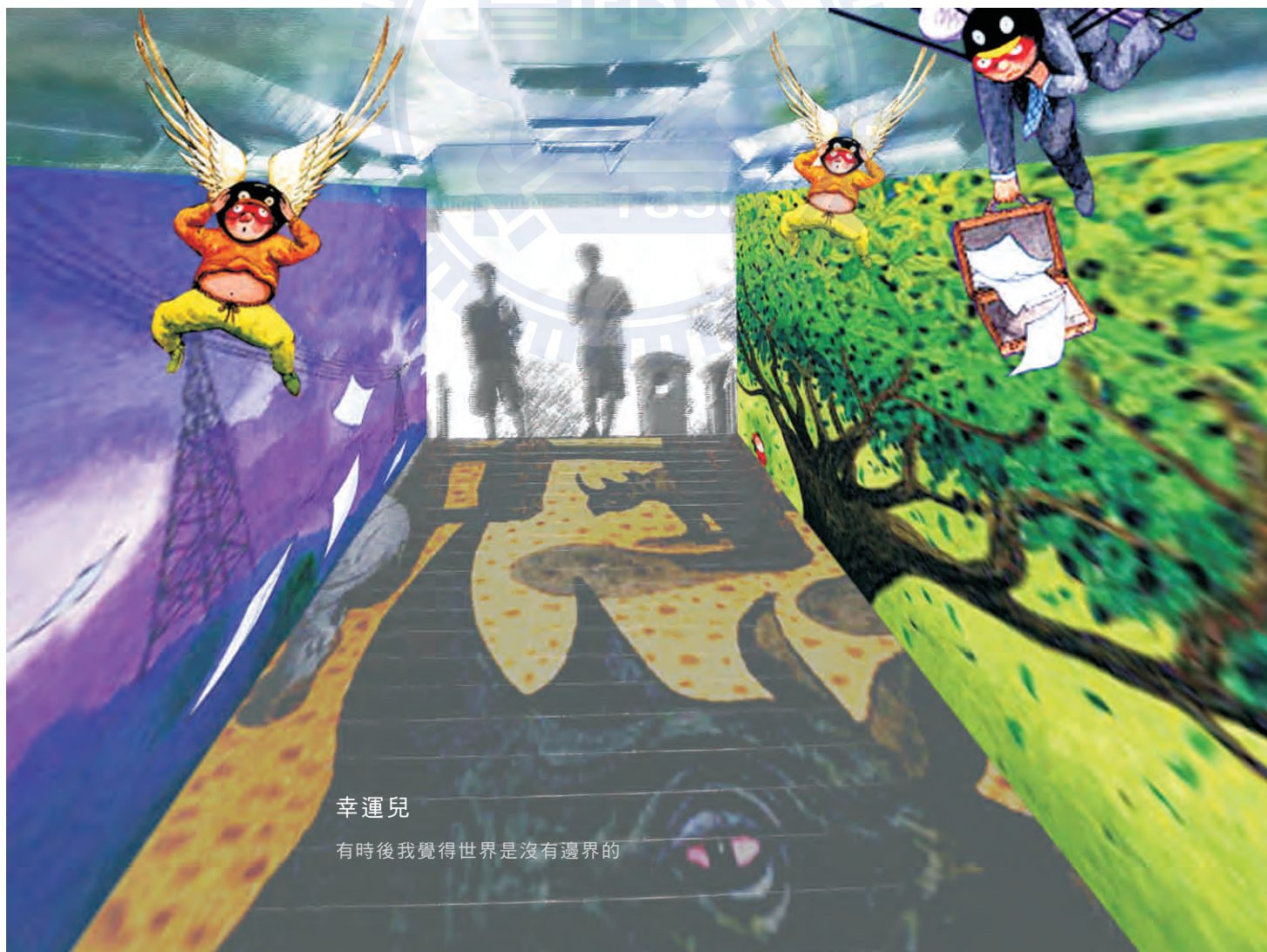


## EIGHTH STOP

Do I have a wonderful life? Is it important that how others think about me? Make sure what I really want. Be happy every day. :)



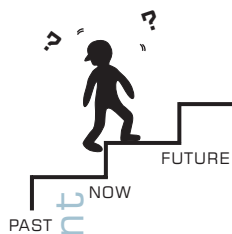
畫口繪米作亞 (地下畫)  
Copyright Jimmy 5.8



幸運兒

有時後我覺得世界是沒有邊界的





# BACKCASTING

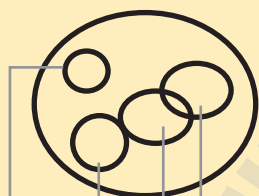
John Holmberg

John Holmberg, an Assistant Professor at the Department of Physical Resource Theory at Chalmers University of Technology, set up four steps and four principles to achieve sustainable future. His theory is based on this framework and backcasting. Because of the complexity and the dynamics of ecosystems and climate in relation to societal activity, he thinks non-overlapping principles that cover all aspects including lithospheric material, substances produced in society, manipulation and harvesting of funds and flows within the ecosphere, and the internal society metabolism and the production of services to humans are necessary. These principles make different fields cooperate to discuss about. sustainable system not focus on what they disagree on.



## Step1. Define a framework for sustainability (guiding)

starting point: sustainable future



Dissipative use of scarce metals and fossil fuels

Dissipative use of persistent compounds foreign to nature and naturally occurring compounds that are already increasing in concentration in the ecosphere  
Manipulation and over-harvesting causing reduced production capacity and reduce biodiversity

Wasting of resources in relation to meeting human needs

(1) ecosphere  $\longleftrightarrow$  balance  $\longleftrightarrow$  lithosphere

depend on substances, recipient, the critical concentrations are different

(2) molecules and nuclides

the quality of final deposits can be integrated into the natural cycles or deposited into the lithosphere

(3) fertile areas, thickness and quality of soils, fresh water

biodiversity isn't systematically deteriorated by over-harvesting, mismanagement, displacement

(4) reduced resource flows per utility

improved means of dealing with social issues (equity, fairness, population growth)



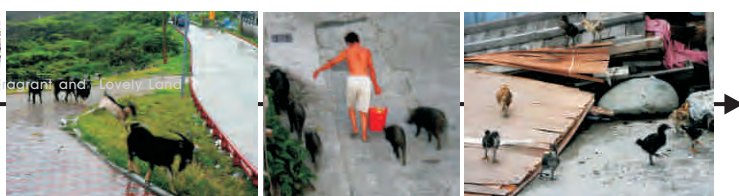
## Step3. Envisage a future situation (based on step1 and step2)

step1: restrictions + possibilities

step2: information

Step2.

- thinking in broad terms can help open the mind to new options  $\rightarrow$  new product or new business
- avoid a static view, free the mind of restrictions set by present circumstances and open
- the product aims to deliver a service of a set of service, which in turn might have the potential according to **core values** (not financial gain or expediency) and **purpose** (reasons for existence)
- profit is like oxygen: necessary for life, but not the point
- **human needs are essentially the same in all cultures and historical periods**  
what changes are not the needs but the forms or the means by which these needs are satisfied
- rough idea  $\rightarrow$  find cost-effective and resource-efficient solutions



human needs are essentially the same in all cultures and historical periods  
what changes are not the needs  
but the forms or the means by which these needs are satisfied

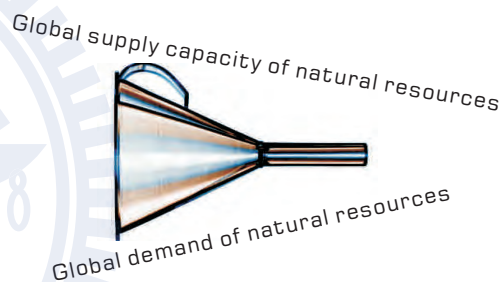
Step4. Find strategies for sustainability  
 (link between current and future)

start point: analysis from step2

decision making, guide analyses, and research  
 quantitative tools should be guided by a hierarchical  
 set of questions that are structured on the principles

$$I = i \times m \times u \times P$$

- I: impact in nature
- i: I/M (impact/energy&material flow)
- m: M/U (energy&material flow/utility, service)
- u: U/P
- P: population



In this paper, John Holmberg also refers to a concept of “The Resource Funnel” which talks about the decreasing of global supply capacity and the increasing of global demand of natural resources. He takes funnel as metaphor. This phenomenon will make the opening getting smaller and less space to maneuver. In order to slow down the slope, he proposed five points to follow: (1) environmentally concerned customers, (2) higher insurance costs for risky activities, (3) stricter legislation, (4) higher costs and fees for resources as well as pollution, and (5) tougher competition from competitors who invest themselves skillfully towards the funnel opening.

Describe the current situation in relation to the framework  
 (analysis)

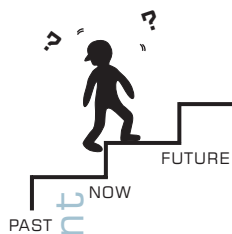
detail study about analyzing competences and activities

ess ideas

the mind for future options  
 potential to fulfill human needs  
 (ing)

satisfied





# BACKCASTING John Holmberg

At the beginning of this course, I felt like some kind of religion telling us that we must believe in a little impractical. "Sustainable development" is similar to a GOD. But after I read literatures about them for discussion. Backcasting is a well-organized research with explicit frame and steps. Many researches about sustainable development mentioned with reference to "human needs".

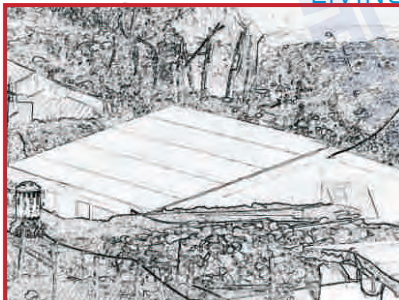
When I was thinking about this question, an experience runs into my mind. It's a trip to a secluded township within Taiwan. There are some traditional houses for visiting. The purpose of building that kind of houses and the materials they used were very clearly. Although it is not comfortable for living, I can see the simplest way to fulfill human needs. As time goes on, all of us change a lot. Many things that people never heard before become necessary. Maybe looking backward is a good way to seek rules for constructing future frame.



## Underground Houses in LanYu

LanYu, a small island of Taiwan, was separated from main land by sea. Due to its geographic location, it is an underdeveloped township which is entirely different from capital city, Taipei. It has natural landscape and keeps aboriginal culture very well. The traditional houses in LanYu can be divided into three parts - living, working and relaxing. How genial it is! This is my first impression on it. But after making a visit to the houses and going deep into the reason why they built houses

### LIVING



The main mass under-ground is for living. It's very short, wet and hot. While entering the houses, they must bend down and pass through doors which look like windows. They even can't stand up in the houses. The only reason for such kind of design is just to avoid the damage from typhoon.

### WORKING



Working space is on the ground. Due to extremely uncomfortable structure of main building, they have to work outside. There's no toilet or bathroom inside either which causes many inconveniences especially in dark nights or cold days.

### RELAXING



The third part of the house is the roughest but the most comfortable one. It is composed of three stones. That's all. It looks like a decorative part of the house but may be indispensable. This is how they get in touch with nature and enjoy fresh air. What's the definition of "basic demand" might play an important role on sustainable topic.





...ve in sustainability or the planet will go to the devil. Too much introduction to this topic makes it a  
 ...s for seminar 1, it becomes interesting especially for some theoretical researches. So I choose one  
 ...think it is a good foundation for moving to sustainable future. But it proposed some questions merely.  
 ...I just wonder how to define basic demands.



pillar

roof



From traditional houses, we can see the humblest requirement of human needs.

- (1) Space for living
- (2) Avoid damage from typhoon
- (3) Space for working
- (4) Space for relaxing

The only decoration is the bones from the captives. They are proud of it and display on the roof.

The materials have not many extra works. They just tied them together and used only two pillars in the center of the house for supporting.

People in LanYu are changing their way of living now. More and more tourists crowd into this pure place. In the cause of satisfying foreigners, more and more "normal" buildings were constructed for visitors and themselves.

- They start to use concrete or other materials that are stronger to support higher buildings.
- The aborigine characteristics are vanishing.
- What we should do is to analyze the elements of their traditional houses.
- How to improve it with original materials?

I believe that we can construct future frame by the elements draw out from traditional one. And the elements undoubtedly are the simplest. We are consuming the resources that ancestors reserved for us. How could they save so many resources is an important thing that we should learn.

This method to determine the basic demands in different regions might be executable can fit in the theory, too.





昨天汪仔被上百公斤的箱子壓到手抽不出來  
儘管我在旁邊努力想推開箱子救他 箱子卻毫無動靜  
今天我竟然忘了有可能發生這種意外  
硬生生的就被鐵條重力加速度壓到  
當我意識到的時候我已經跳離推車兩公尺還發出了慘叫  
實在是強烈的反射動作 好痛 而且痛很久  
指甲裡面出血了 現在只要碰到就痛 -"-  
虧我昨天還是唯一的目擊者還這麼不小心  
身上還有零零散散的刮傷 淤青  
右手半廢了 大拇指摩擦到會痛  
食指上禮拜被垃圾桶打到血流不止  
小指有一小塊皮不知道怎麼弄掉的 = =|||  
左手也有刮傷  
左腳是被飛出的鐵條刮傷還撞淤青  
右腳牽車被刮到  
好虛... 該開始設計作業了  
明天會被批的很慘吧... eager一定會說搬工廠不是理由  
只是我們的藉口罷了

從上禮拜二上工廠老師教完集成後，除了禮拜三趕設計作業，之後每天都花三、四個小時左右在做集成，昨天信和還對我們說最近是不是比較閒沒啥遇到我們的人，大冤在阿，其實是因為到工廠去了，看似簡單把木頭貼在一起的集成，沒想到要花這麼多時間，上膠完，用夾具先暫時固定縱向，拿水洗掉多餘的白膠，用夾具固定橫向後再用那部夾具鎖緊，翻面再洗另一面的白膠，整個過程其實還蠻費力的，真感謝夾具不夠，一天只能做兩組，不然可能會有野心大，想一次完成，那應該會累到翻過去吧。

今天把集成的木頭做成椅子，原來是椅子不是桌子，才把簡單零件處理完，還沒到組合的時間，原本預計要做的工廠隔間也延緩了，老師叫我們有空要把椅子們完成，看樣子整個禮拜又要多窩在工廠很久囉，不知道是不是初學者所以動作都這麼慢。今天連刨木頭機具的橡皮帶也被燒斷，老師說第一次遇到這樣的，我們的機器壽命真短，工廠才開用沒多久就需要好好整頓一番，希望建構工廠的費用足夠。

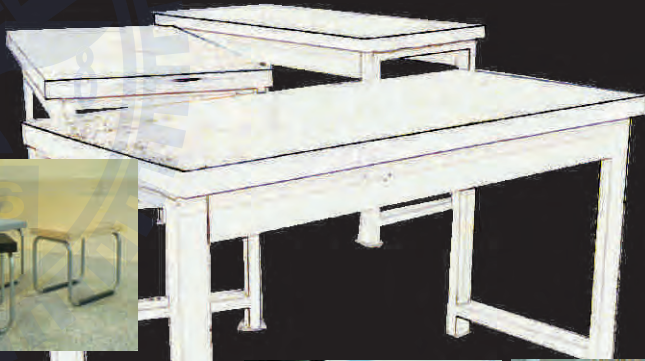
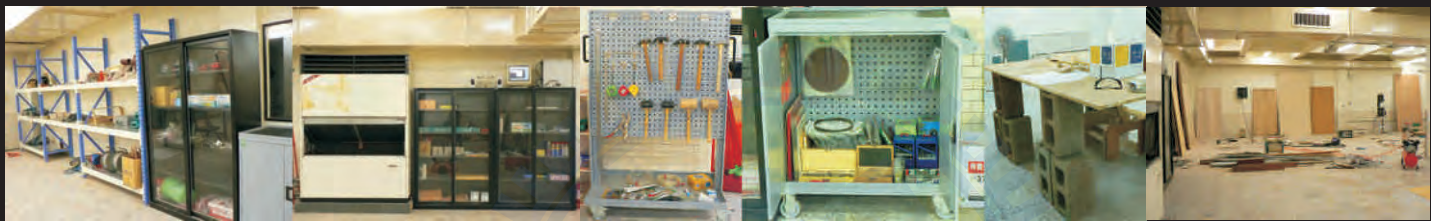
這次的工作是先上第一層漆，木頭的透明漆和鐵料的防鏽紅丹漆  
調好的透明漆裝進噴槍中 竟然不是乖乖的霧狀噴出，而是有細絲大量冒出  
勾在鐵絲邊超像蜘蛛網 整個弄得髒兮兮 連人也是  
後上放棄先強力噴橘漆 橘橘的漆讓我很貴的牛仔褲和球鞋都變了色  
更可怕的是在距離八公尺多遠的冷氣濾網在不知不覺中被發散過去的漆也變了色  
我看到的時候真是傻眼 跑去問原本冷氣的濾網就是橘色的嗎  
answer: NO! mygod... 那整個地下室到底滿溢多少漆

桌 椅 板

## 第四章



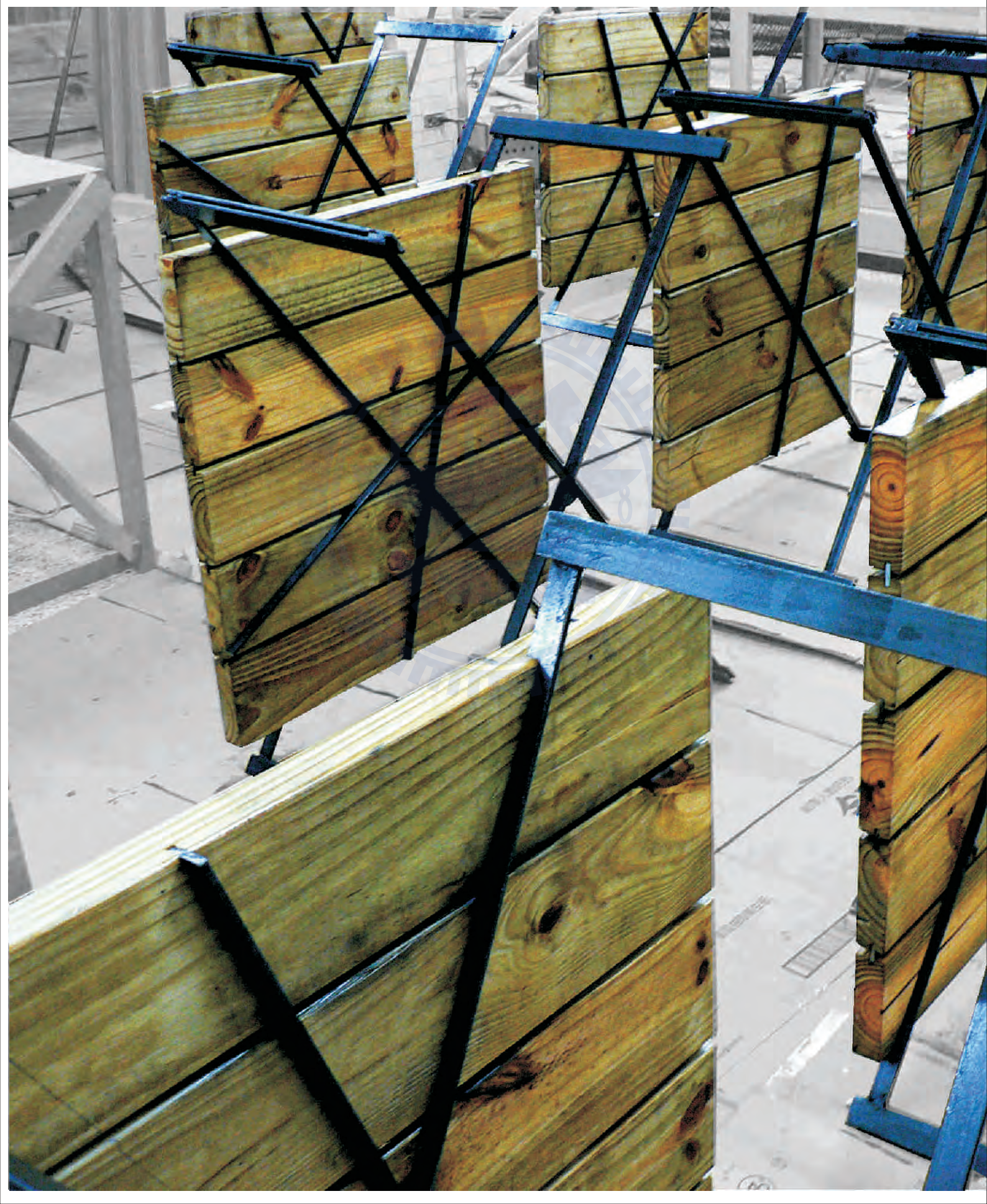
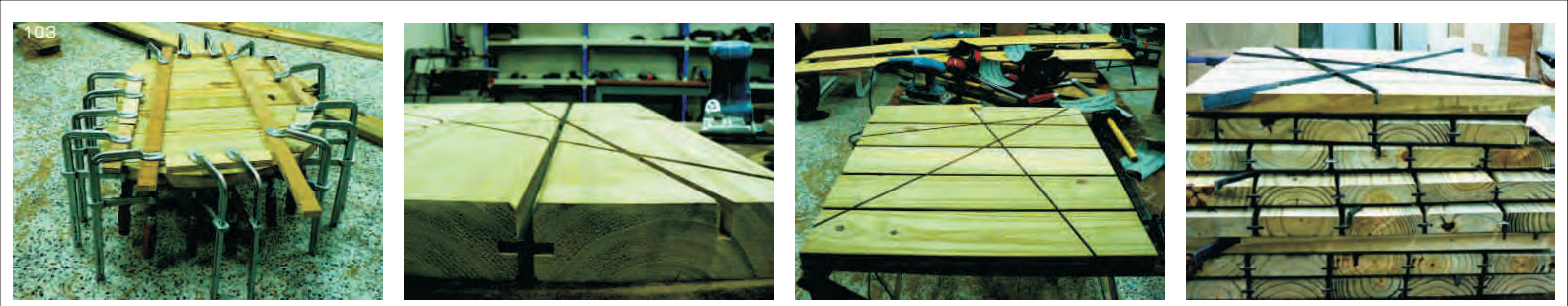




















對第一屆的MArch1而言

進入建築所後所上大量技  
三夜的搬運整理，完成了

機具的學習使用，所上的  
是採取最穩定的方式大量  
我們工作到深夜的起始點

集成桌椅的練習，用角鉗  
，卡好的桌椅老師說這東  
老師代我們轉往需要的人

工作桌、評圖板、布告欄  
偷偷向原有的工作桌學習  
看似簡單又粗糙的評圖板  
伴隨強力膠的工程出現更

最後一宗大型訂單則是來  
工三工四間廣場的工程需  
噴的防鏽漆染紅了最深處  
適當長度，木板也要裁切  
長的魚讓焊接的人出現曬





，一切都是嶄新的，新的制度，新的環境，甚至是新的設備。

採購的工廠機具就這麼交付到我們手中，搬遷工廠與架構的重責大任也跟著下來，期初三天了一個可說是屬於我們的地方，又或是該說我們屬於這個地方？

的不夠還到淡大借用彎管機製作椅子，從一開始參觀的興奮感，到五花八門的想法，最後還量生產，對於一根根的圓管又切又磨又彎，甚至踩在上面跳阿跳，靠人力變形，這只是後續站。

鐵連接兩片木板時發現了卡接的學問，螺絲要鉚哪一邊，怎麼讓表面漂亮而隱藏工作的痕跡東西可以賣到上萬元，原來從我們手中出生小小的一個家具有如是的身價，集成的木板也讓人手中，我們真的是在一個有生產力的工廠製造可用的東西，這感覺浮上心頭。

關，一項項的需求漸漸浮現，我們的、所上的、學校的。

習，做出三個神似的產品。

版設計上卻需要大量討論，要能推，要能翻，要能釘圖，什麼該捨什麼該取。

煩量的症狀，原來強力膠還真是毒品的一種。

來自學校。

需製作二十套左右的桌椅，鴨子與魚就此誕生。空下設計課的兩個禮拜在工廠生活，在門口處的冷氣出風口，很毒的作業。如何固定我們自以為帥氣的桌子也是一項難題，將鐵片切成切，每一張桌子都是獨一無二的，上漆時立起還真像漆彈場。發揮交大建築所free form特傷症狀，我們，完成了。









