

# Matter, Space, Light, Write

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How can we define space? Working on iteration three that is concentrated on a building block that is six by six inches on Cedar wood that can be a rigid and a strong material. Furthermore, this material can become a good source of inspiration, one fact was that I concentrated on following the wood grain that include the longitudinal arrangement of the wood fibers resulting from this created a pattern that follows the freedom of the wood. The majority of my cuts are following the grain, creating radical vertical cuts and horizontal cuts to control the stability of the building block.

As I mention before I am looking for a definition of space that can be seen in my building block, a space that can be generated by using light and shadow. Working with my precedent 48 North Canal Road, Singapore | WOHA, I am concentrating on the characteristics that are not visible and relating the building block to the precedent characteristics of function instead of form. In addition, inspiration of how the building work itself with light and shadow generates an idea of how can my building block can have the same idea of how the light travels and filters in the entire block.

Describing the process of how we had to build a six by six inches cedar wood cube, on this part I learned the difference of manipulating and changing from a three by three cube to this new size of cube. On this experimentation I noticed how can size and scale can be different terms. On this different size of the cube I got confident with angled cuts that I was not able to achieve on the smaller size. However, this iteration was also intimidating because the size of the block also affect craft. Craft could be defined from your precision of cuts and the assembly of pieces. It is incredible how my idea is reflected on the block the difference between big mass and small mass is a topic of discussion on my building block. When I understood what my block is doing different than other blocks creates a reflection of me. Finding the shape of how things are developing on my building block is really important because I want to emphasize how my precedent 48 North Canal Road, Singapore | WOHA, gives context to my process. The relationship between my building block and my precedent is how the two designs are concentrating on triangulated geometry and angles, I really find a factor of this design that inspires me to follow the triangular shapes on my design and also straight cuts are a simulation of the geometry and the angles that are included on design.

I tried to imitate the light and shadow that this precedent focuses on shading. This building concentrates on the experience of light and shadow. Photographs of the building block demonstrate the light movements between the following the grain and not following. Not following the grains creates an absorption of light and following the grain would create the reflectance of light. Light enters the building block and travels to different section of the design. The space created in the center of the building block could be a place of distribution for the light also could be a place where light could remain or cross and travel to another volume of the building block.

Observing a top view of the building block we can see how we have a space in the middle created by circular shapes that cross every layer of the block, intersecting with each other we can imagine how the light travels and moves throughout the obstacles of the space. At the bottom of the top view, the solids are reflected from the block creating an interesting interaction of how voids created a form of travel and solids can create a reflection of the light traveling.

Comparing the top view to the sides that have an intention of letting light enter the space in different forms. The right side of the building block has a filtering light system of mass small window and mass pattern.

A small opening are two interlocking diagonal cuts that are meeting at the middle of the building block. These cuts are space evenly to produce an illusion of big mass, small mass relationship. On the left side of the building block, I have a pattern of random shapes that create an impact of how light can filter into a space, create an illumination in the middle and a great shadow on the sides. Those random pattern are created with straight cuts. The importance of this piece was to add an entrance of light was different in compare to the other entrance of light in the building block.

The front of the block includes radical vertical cuts that are representing a simple entrance of light that concentrate on lighting the space, on the back side of the building block, the similar technique was follow and radical vertical cuts were included on the top part of the building block and horizontal cuts were included on the bottom part of the building block.

48 North Canal Road, Singapore | WOHA, Designed a new boutique behind a pair of shop houses in the center of Singapore. Following a triangulated geometry, that was expressed in both plan and elevation creating the form of angled walls and planes, shading was provided by a curtain wall system and a series of perforated external aluminum panels.

Including, original floor levels with their low ceilings heights, the front end was accommodated with the meeting rooms. The design was inspired by the idea of an open plan offices, it also maximized the floor plate size within the four upper floors, obtaining higher headroom with incredible views and a more natural daylight is accessed from the sides. In comparison to my building block I am focusing on design the light accessing from all the sides of my building block. Also I am concentrating on the open plan and re-creating the idea with having a simple main idea surrounded by small volumes and big masses. One important feature of the design was to invert the shop houses typology by carving out valuable floor area to create a public pocket park at the center and main part of the office.

The meeting rooms, break areas and a Café are organized surrounding the public pocket park. This center of the office could be compare to my definition of space on this building block that is my circular elements in the middle where light crosses and remains.

It is incredible how space can be defined with boundaries, colors and other factors, we can define space by working with solids and voids. Defining space can be difficult, the building block gives a definition of space when the main part is the center of the piece and it has different volumes surrounding the space.

