Transition Space

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Examensarbete inom arkitektur, avancerad nivå 30 hp
Degree Project in Architecture, Second Level 30 credits

8 juni 2017
The project is the expansion of the Stockholm public library. Engaging in study from the misconstrued translations of images, a "transition space" next to the old library. There are four aspects of interpretation for the word "transition" in my project: path, shape, type and memory.

During the year in studio 5, imagine reality, I delves into the issue of integrate forms through the misinterpretation of images. The spaces were created by making use of technologies to transform 2d images to 3d volumes, and were developed to respond to site context and the program requirements, primarily through a series of strategic Boolean operations. It is irrational and accidental, but provides more possibilities for architecture design.
Site

Introduction

Analyzed by the Board of the Public Library, which Asplund part, the project presented in 1922 was approved and construction began in 1924. The idea of circular main hall was came from the British Museum reading room. Asplund abandoned earlier ideas and changed, for structural reasons, economic and formal, the dome designed originally, in favor of a roundabout, a cylinder whose height granted to certain foreign monumental building. During planning, Asplund, precursor of the modern movement in Sweden, re judo classic elements to their most abstract, mostly by removing architectural decoration geometric shapes order.

The Stockholm Public Library was the first library in Sweden to implement the principle of open shelves where visitors could access books without seeking assistance from library staff, a concept that the architect observed from American architect Albert Kahn.

Competition

In 2006 there was an international competition for an extension of the library, a new structure next to the main building Asplund using the site occupied by the three annexes.

In 2007 he was declared winner German architect Heike Hanada, with its proposal Delphinium, which includes a glass building high-rise, spatially away from the main body of the library, but connected by a low structure, a semicircular podium. Hanada developed preliminary plans for its realization, but in late 2009, due to a change of government in the city and many local campaigns against, who saw the project to perform as an unacceptable impact on the original complex Asplund, extension has been put on hold.
Phase 1:
three experiments of generating spatial solids from 2D images.

During the last semester, my group worked with transforming a photo of soil bags to 3d by tracing the image and extrude the curves to volume. Then we controlled the height and width of the volume and added new add-on parts to give it architectural qualities and studied the spaces by making drawings and animated vedutas. Through these operations, more qualities of an image could be found such as the patterns and the results of the patterns interact into each other.

In this project, considering the significance of the old library and the important location of the site, I started to work with collecting materials from the site and the Asplund’s drawings and transforming them to spaces. There are three experiments of the transform.

In the first one I walked through the site follow various paths and recorded the changes on elevation then made a chart for them. I transform the line charts to 3d by loft operations. I tries different combinations of these solids to create various kinds of spaces.

The third experiment was working with the photo. The transformation was based on the brightness of the picture. The result is a curvy surface and we can find some qualities of landscape on it.

The third volume was created from the extrusion of the plan drawing. Filters were added to the drawing to abstract lines from the plan drawing. Then I did series of extrude and boolean operations to create architectural qualities.
Phase 2: studies on the volume

By cutting, rotating, replacing and adding new parts to the volume to create architectural qualities and analys the massings by drawing.
In this project, my architectural question is the conception of “transition”. The original interpretation for this word is a change from one form or type to another. The main idea is to make the new library be integrated into the city environment and respond to Asplund’s library. Based on this, I focused on four architectural qualities of these volumes when developing the project.

First, learning from the original site plan from Asplund, the path connected the street and the park was preserved. The new library should be a transition space in between the street and park, artificial and natural. Cuttings on the massing are not only for catching light, but also show the new path to the park. The main entrance faces Odengatan, visitors can go through the new library and reached the park.

Second, the expansion offers a blend of the main library and the annex building next to it. I used the loft result surface to connect the main reading hall and the annex, which keeps the tendency of the annex buildings and makes a smoothly transit between them.
Third, when considering about the interior spaces, I intended to make the ground floor space become a "transition" between the type of the project, which can have the quality of architecture design and landscape design, interior and exterior. For this reason, I use curved surfaces for the floor and also learned from landscape design when detailed the project. Besides, I also make the ground floor follow the slope of the site to blur the boundary of inside and outside. (Agadir Convention Centre, Tama art university library)

Forth, the expansion can become a transition of classic and new and keep the memory of old site. I tried to keep some architectural qualities of Asplund’s building and the old annex building. The linear part and the curved part represent the old site in a fuzzy way. What’s more, the staircase at the main entrance respond to the old library.
SECTION