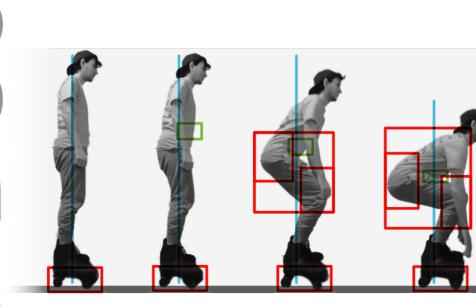


Spatial Bodies in Motion "Rolled Flat"



Side View



Elements

Weight Points

Areas where weight is being "put on" to create the base balance, as powered by gravity



Tension Points

Areas where tension is used to suspend body parts in higher planes to support lower, typically suspended, parts



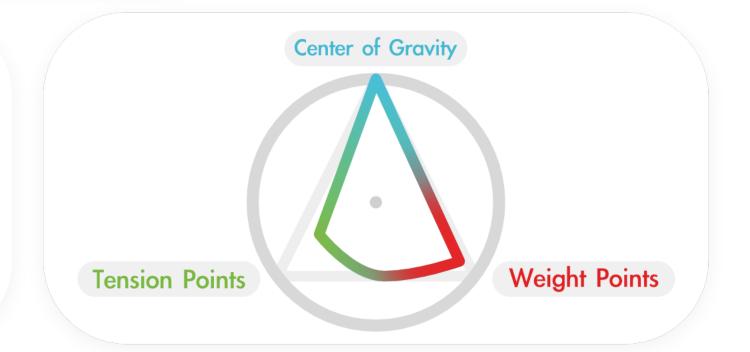
Center of Gravity

The conceptual vertical line that acts as the datum for which tension and weight are balanced around, but not necessarily symmetrical

Elemental Strengths

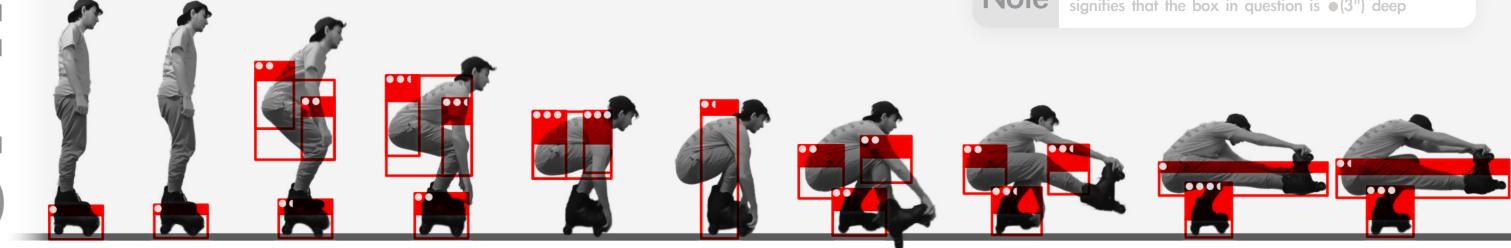
Interaction

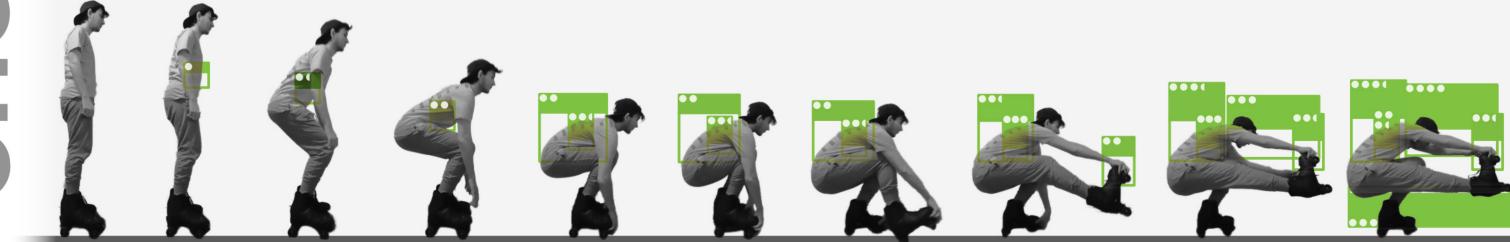
Notice how the weight element isn't maxed out. That's because there's an aspect of "lightness" where you push/lift your weight off the ground via tension and vertical expansion. This helps establish a balanced center of gravity by equalizing your gravity-pulled weight distribution.



Note

Each white ● in the left corner of each depth box signifies that the box in question is ●(3") deep





Selection Process

Elemental boundaries and depth are the two umbrella aspects of what compose the motion boxes. With the "Shoot the Duck" activity in question, many motion boxes translate over layers of frames, and thus there is a redundancy of repetition that needs to be eliminated.

Here's a simple breakdown on what qualifies a box to be included in the final composition:

- > Motion boxes that are found in only one instance are automatically included for the final
- > Motion boxes that are found in multiple instances sustain the following conditions:
 - The first and last motion boxes of a series are automatically included for the final
 - All motion boxes found in the middle of the series are excluded unless their depth value deviates from the end motion boxes by a value of one full circle or greater
 - If a series contains three or less motion boxes and their depth values have a difference of half of circle or less, one box may be chosen to represent the series in place of the two end points and any potential middle points.

Size Matters



The front view graphics below provide additional depth insight of the three elements that comprise this roller skate trick, the majority of which translate over to this view 1:1.

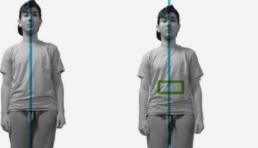


Without the wheels though, skates are useless! They are the essential to having this trick work, and thus the average front view width of any given wheel was used to generate the scaling of this environment in a proportional manner.



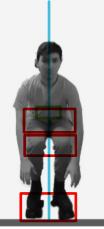
Each wheel is ~0.093 pixels wide. The width and height of each box, which are proportionally marked by the amount of physically visible or conceptually visible area they take up, were then divided by this value to achieve the balanced volumes of each of the hollow motion boxes.

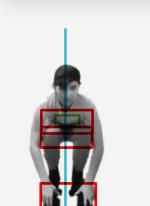
front view





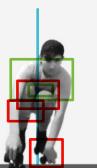






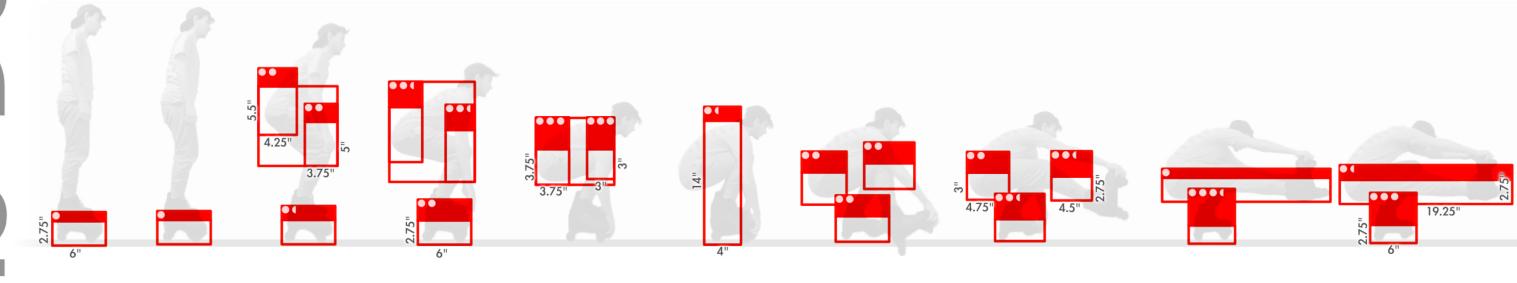








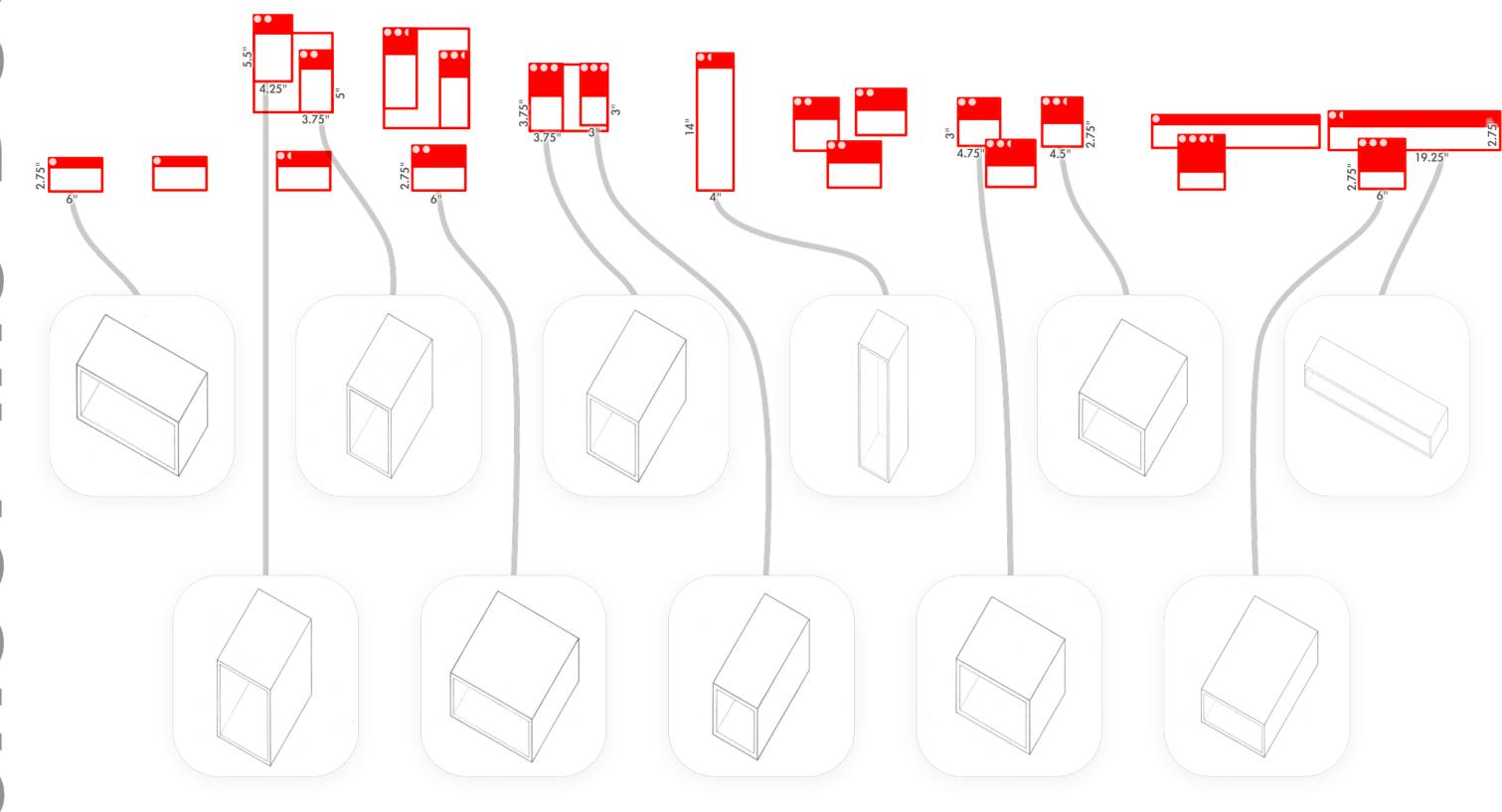






Weight Boxes Overview **Series**

Weight Boxes

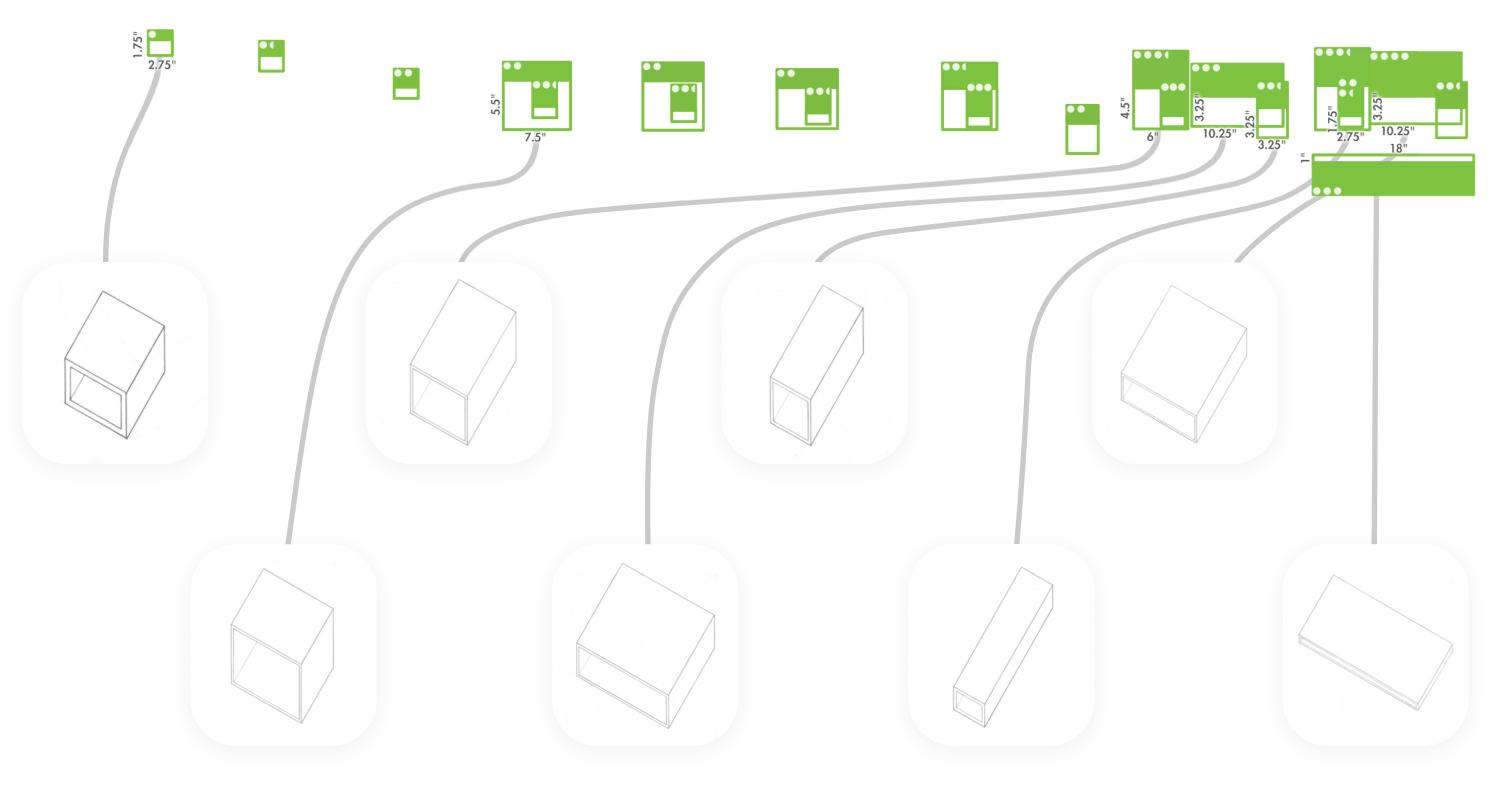


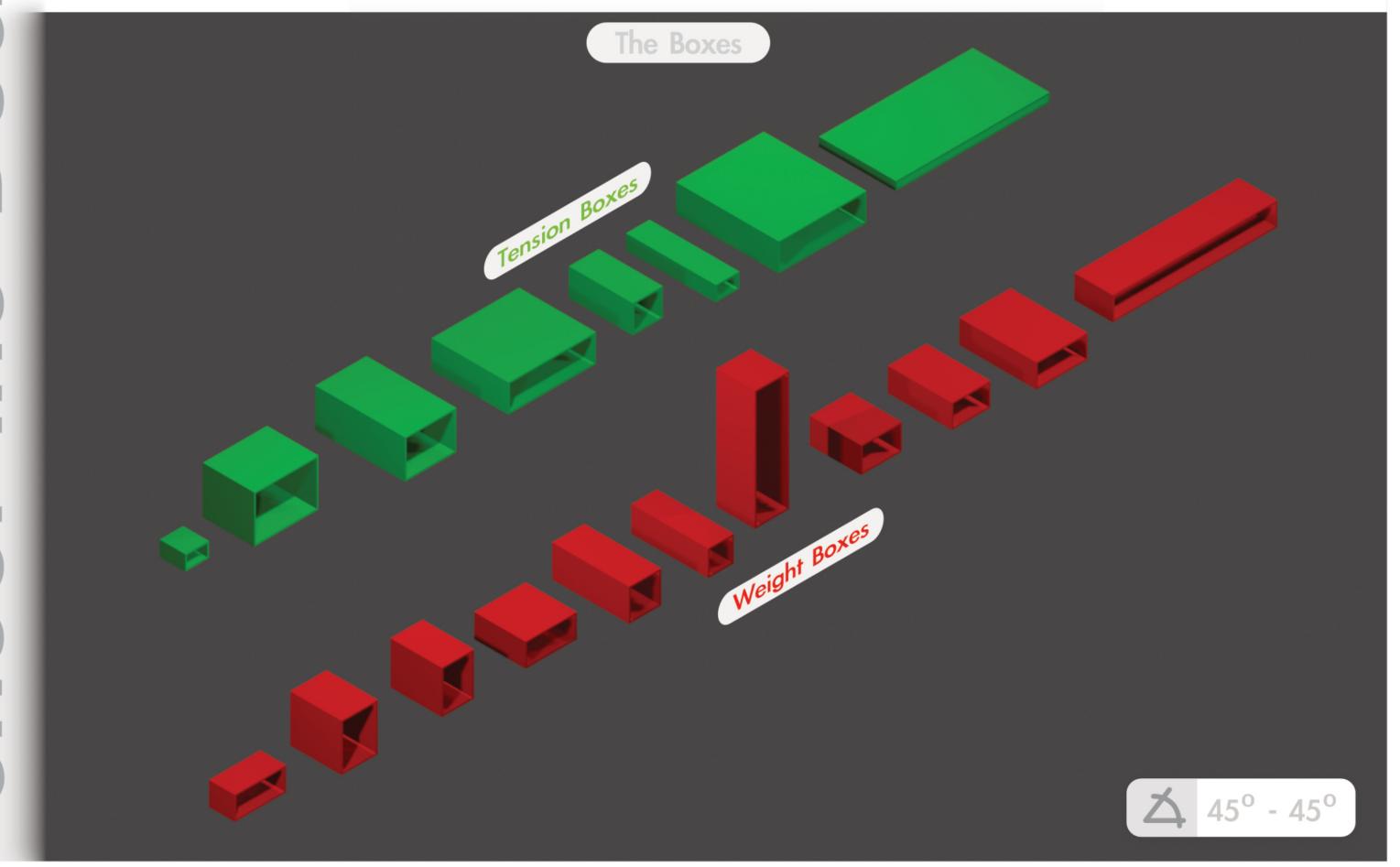
Tension Boxes



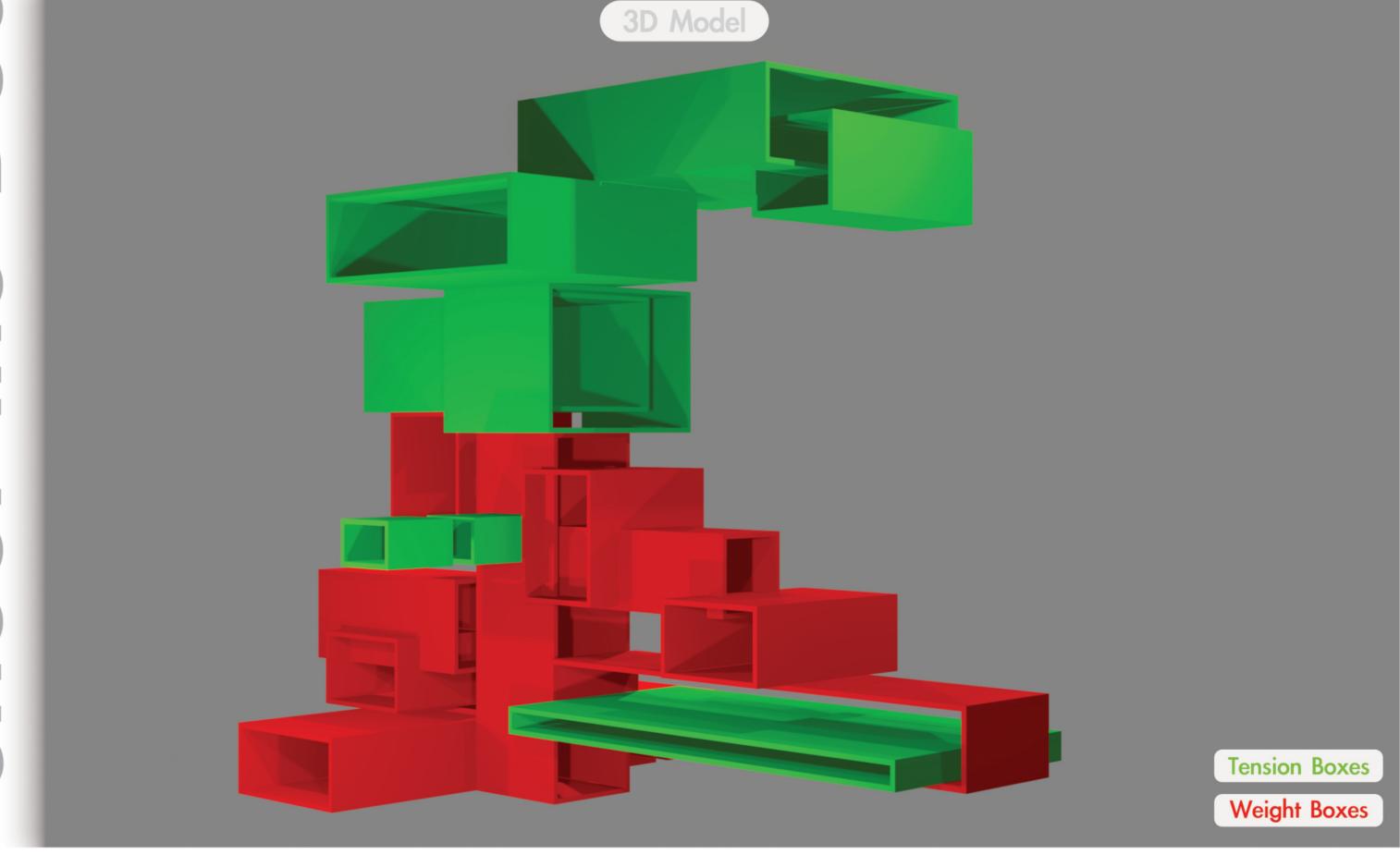


Tension Boxes

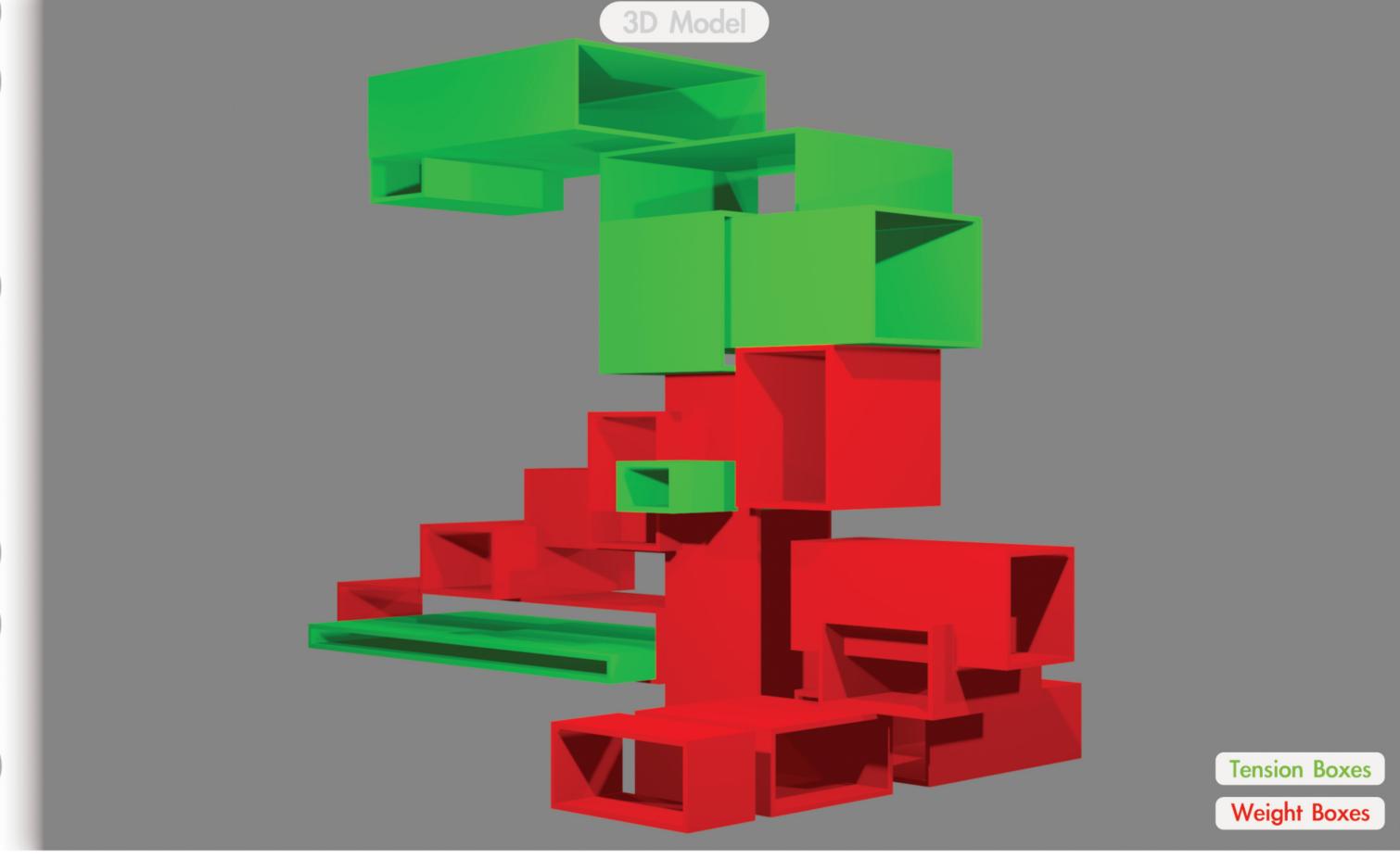




Virtualization



Virtualization



Virtualization





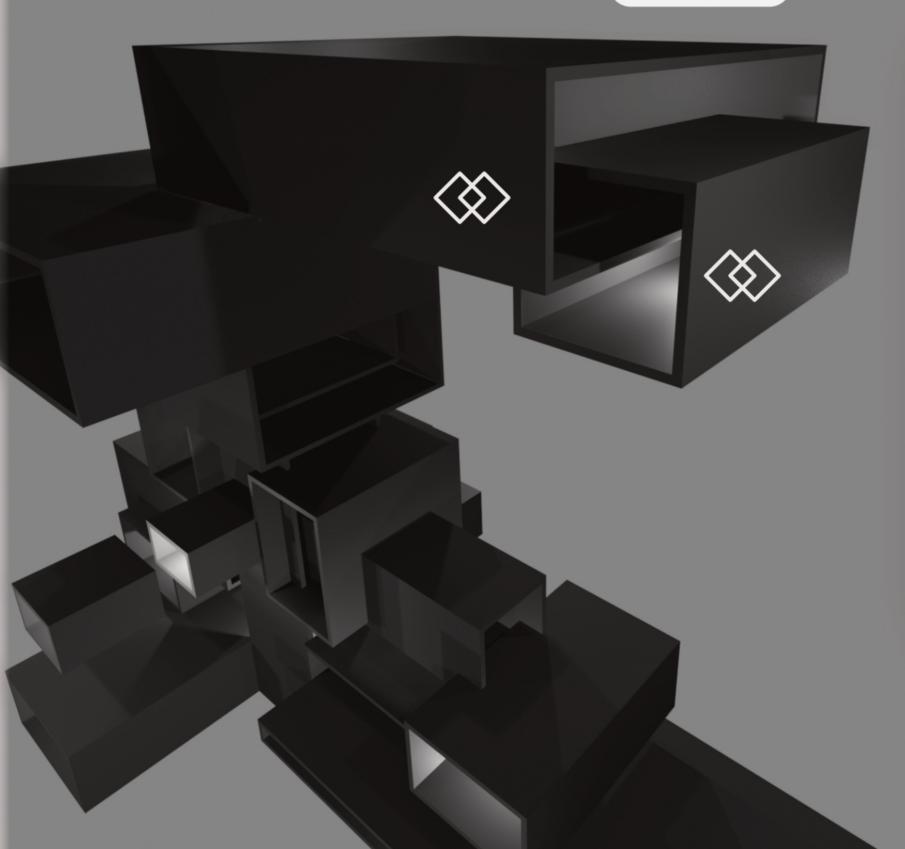
Hierarchy

Your attention should naturally be drawn to first look at the the busy cluster of boxes in the "middle" of the composition. This occurs because there is a lot of visual information located in that region for your eyes and brain to decode.

From there, your eyes should divert either left or right to one of the two focusses, then the opposing focus, and finish at the "hanging peak" by traveling further up and to the left

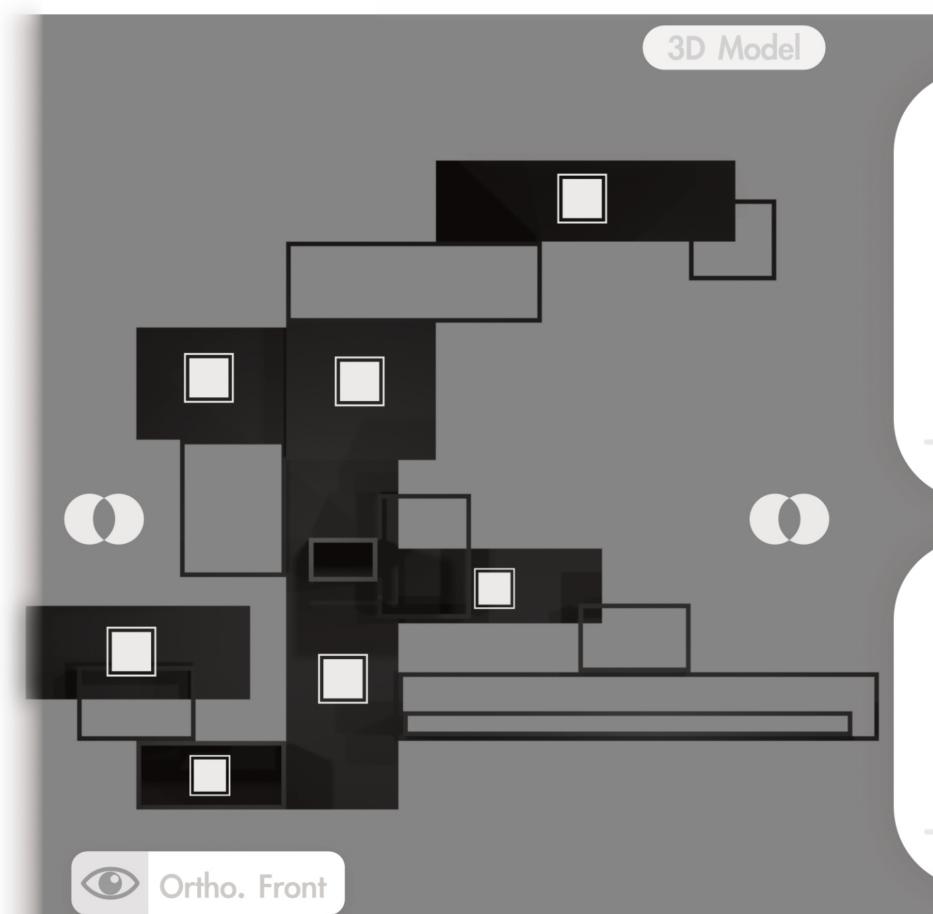


3D Model



Why the Peak?

The hanging box you see to the right correlates to the tension box of one's hands on the toe stop during the trick, and the box it hangs off of is the corresponding arm tension. Unless you are accustomed to it, if you were to suddenly let go of your toe stop during the final ending position, the built up tension in your arm and hands would rapidly cascade downward, causing your suspended leg to quickly slam to the ground, likely making you fall over, but for sure ruining the trick.

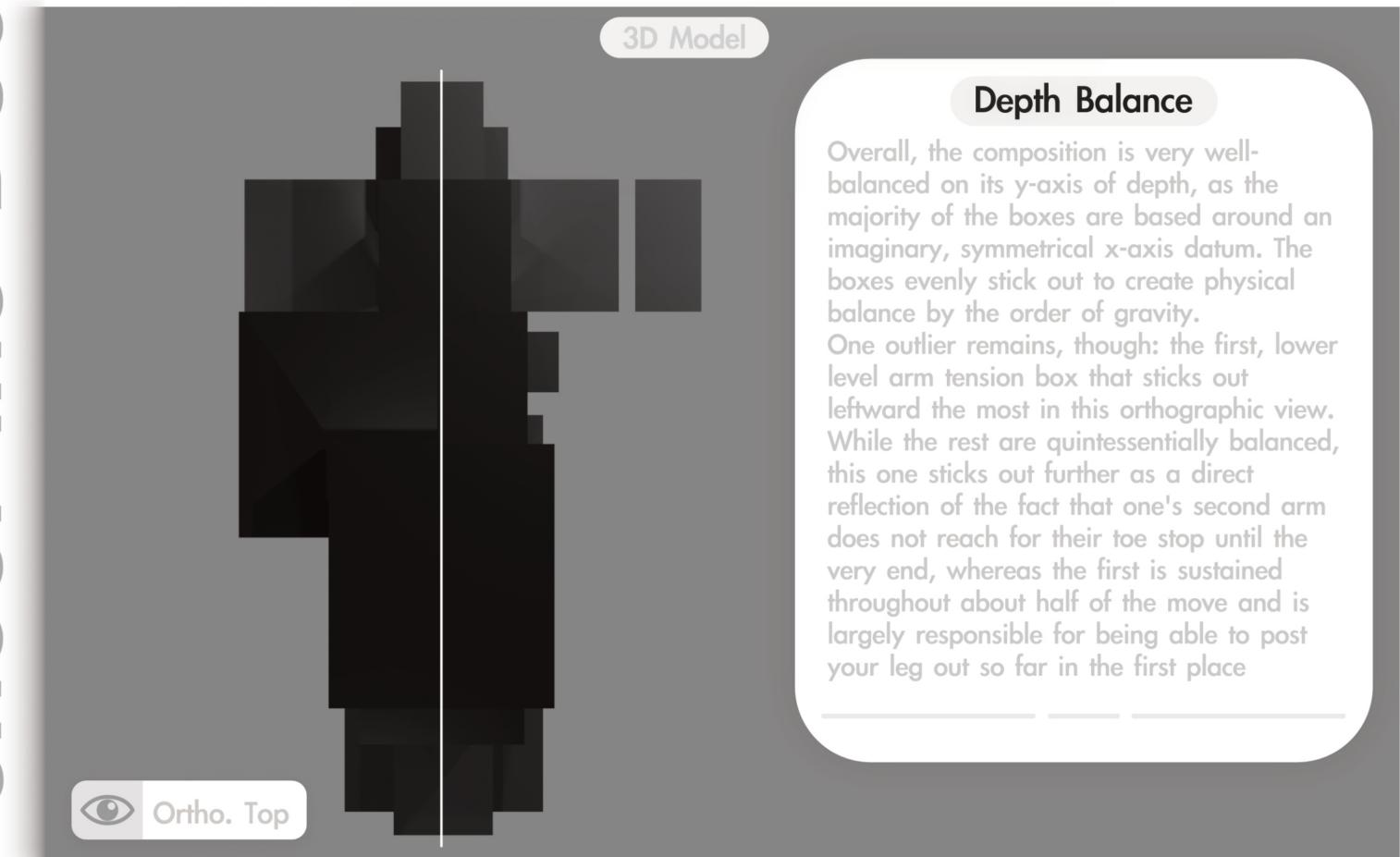


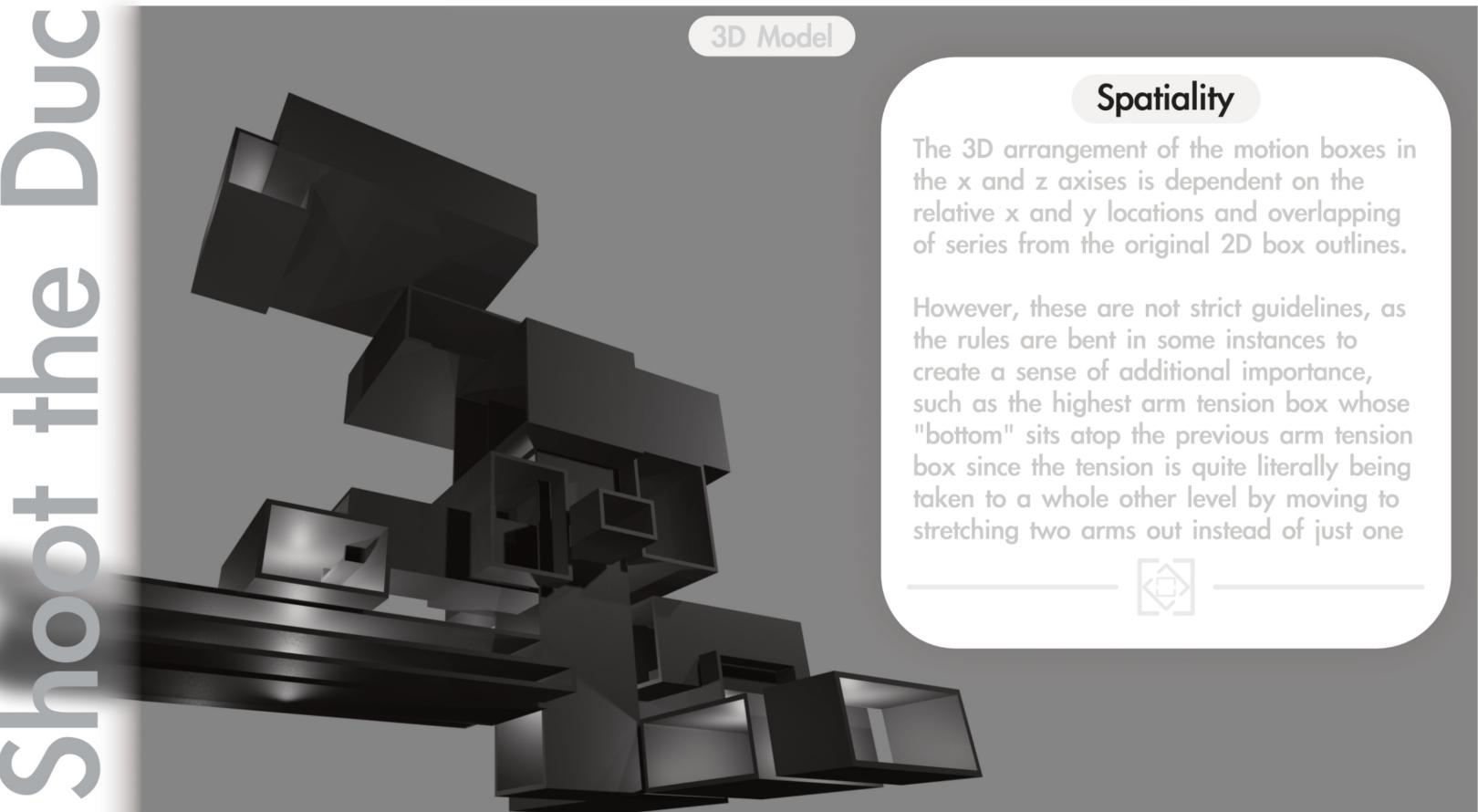
Non-highlighted Highlights

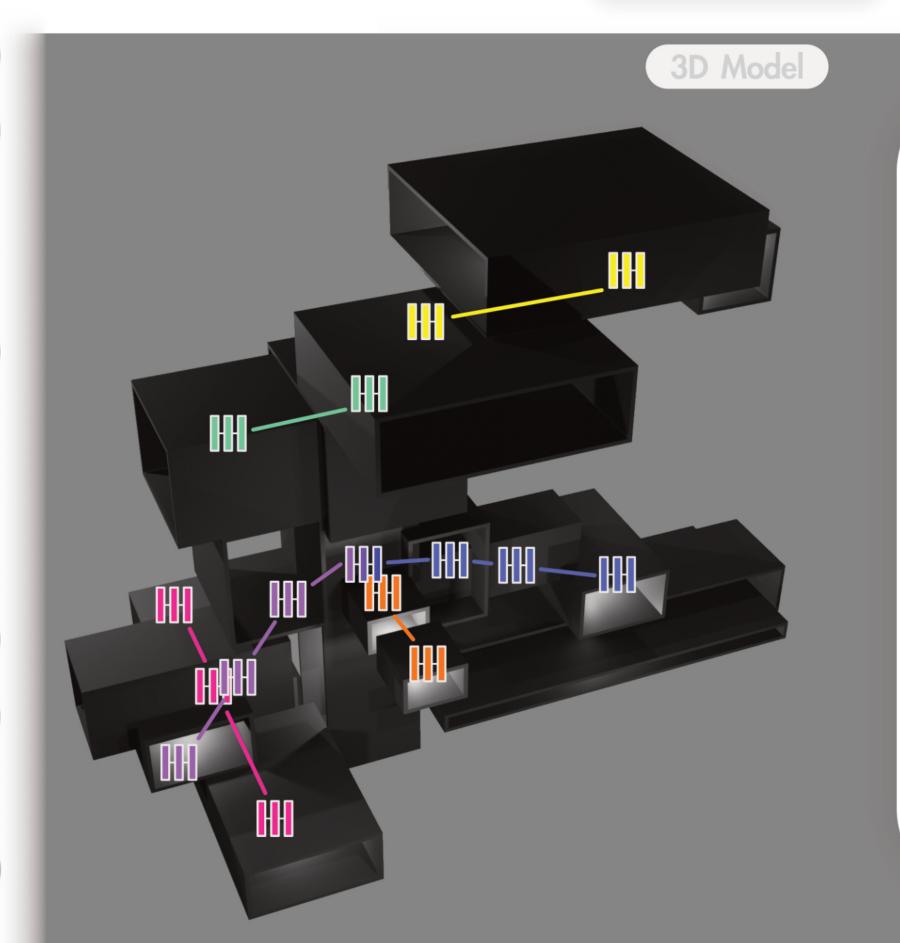
By having these seven boxes oriented perpendicular to the twelve remaining ones, they are naturally highlighted against the other seemingly hollow boxes in this view, the previous 45° angle view, and each of their respective corresponding views 180° opposite.

Visual Balance

Even though there are physically more boxes on the designated right side of the composition, the cluster of "highlighted" boxes on the middle to left balance the visual distribution of weight.







The Six Series Synthesis

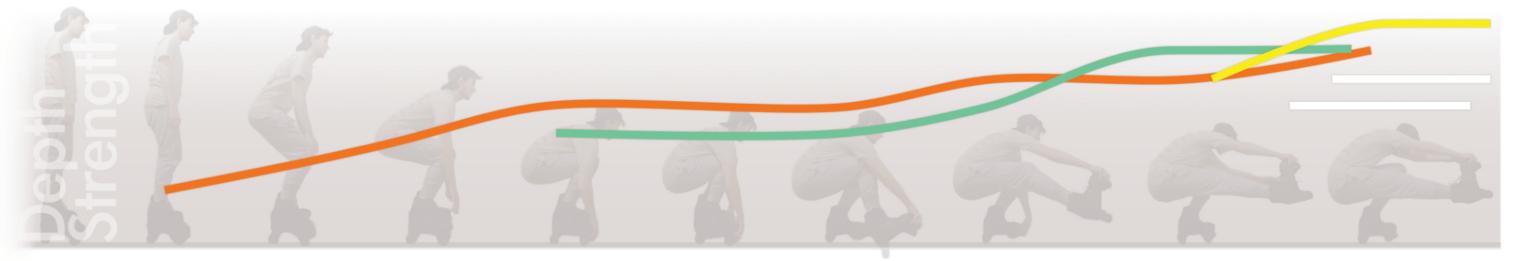
The development of this composition's many series also plays a core role in inflecting the 3D location and spatial arrangement of boxes that are linked together.

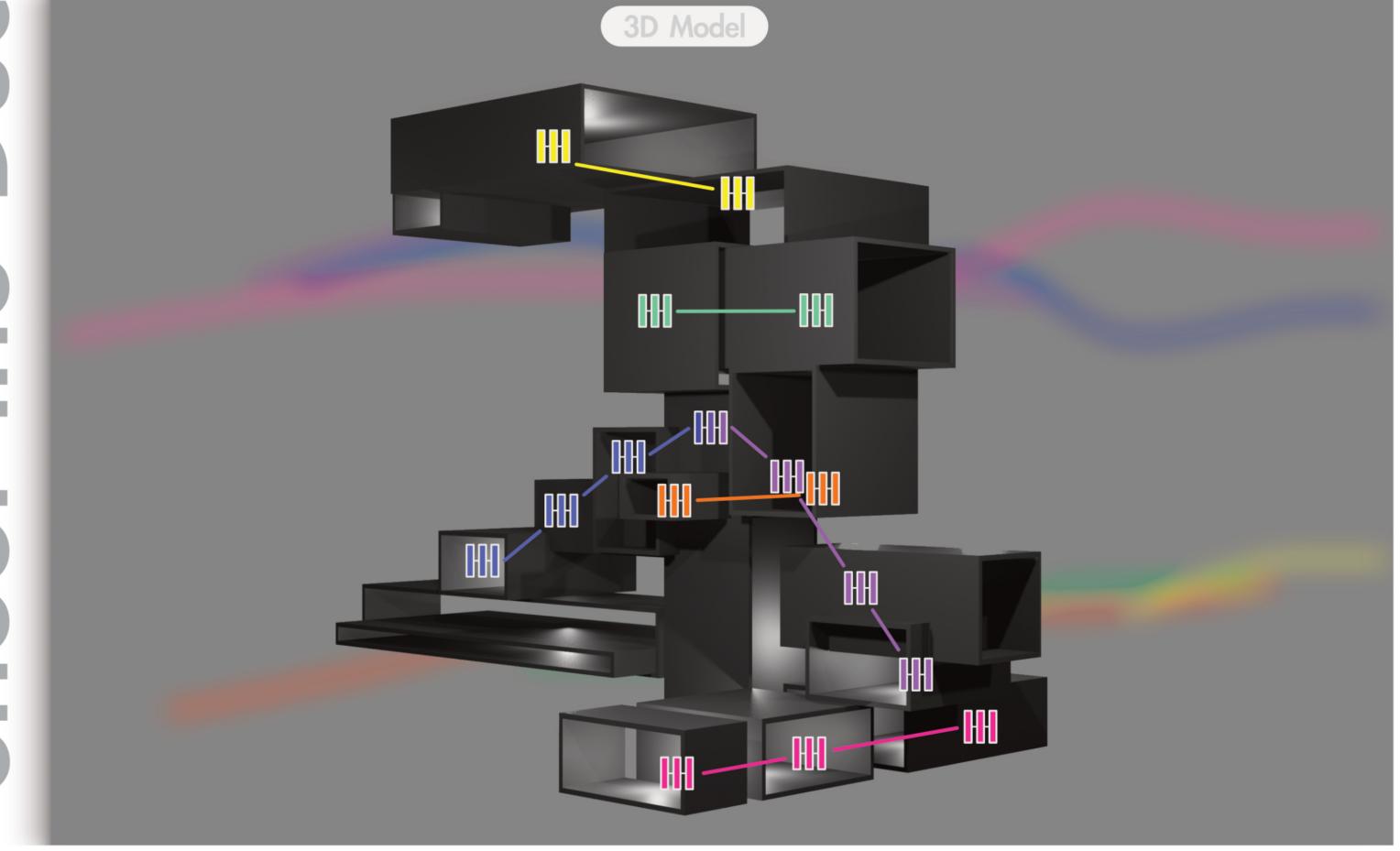
In this case, series are presented with a linear physical relationship in mind. Many of the series, those of which that are lengthier and most of which contain more than two boxes, implement a sense of pausing by having its middle box turned perpendicular to the remaining surrounding ones. These middle boxes are chosen as they represent the "outlier" boxes that deviate from the typical beginning and end boxes of each respective series by 3" or more in their depth quality

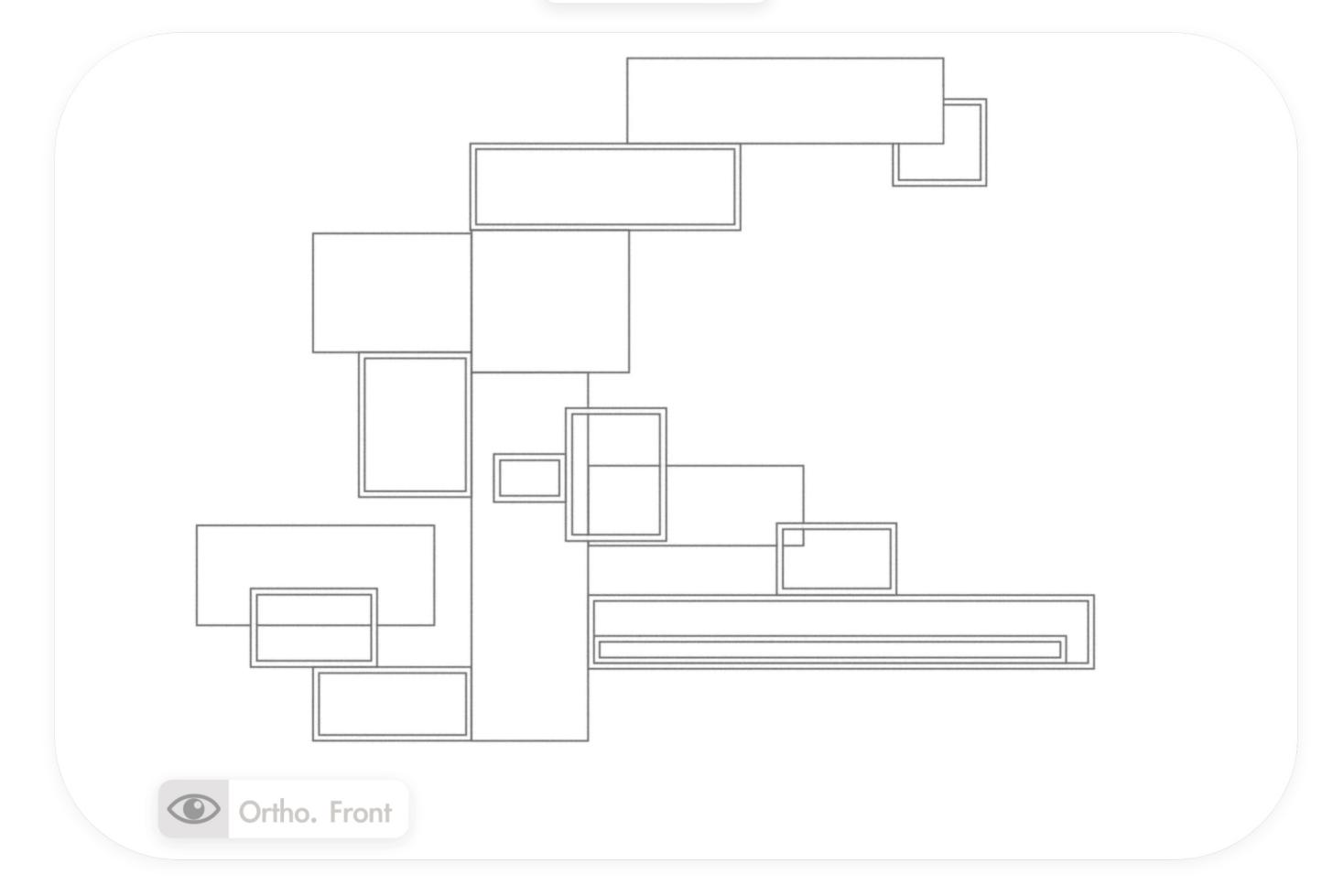


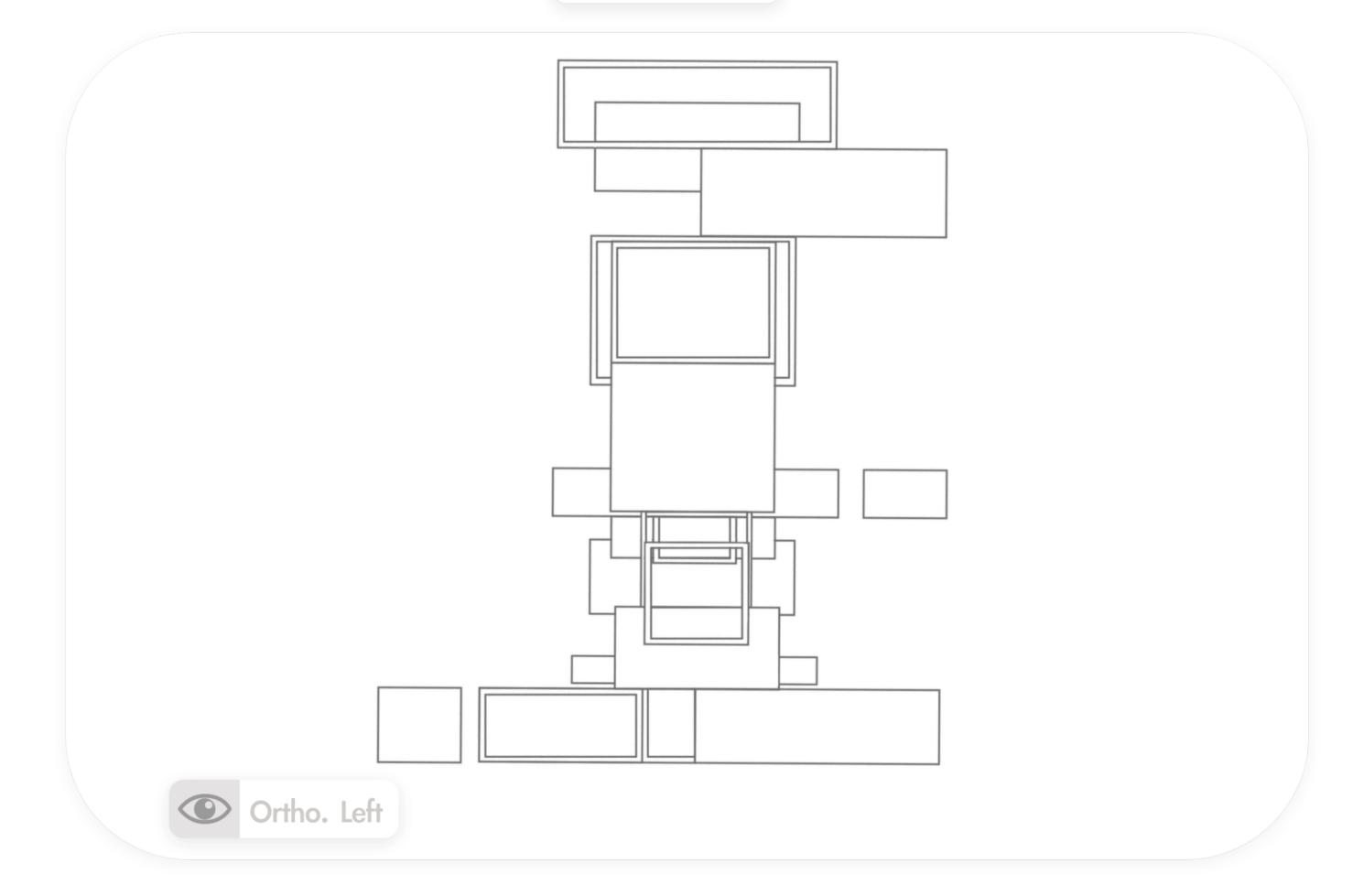
Reference

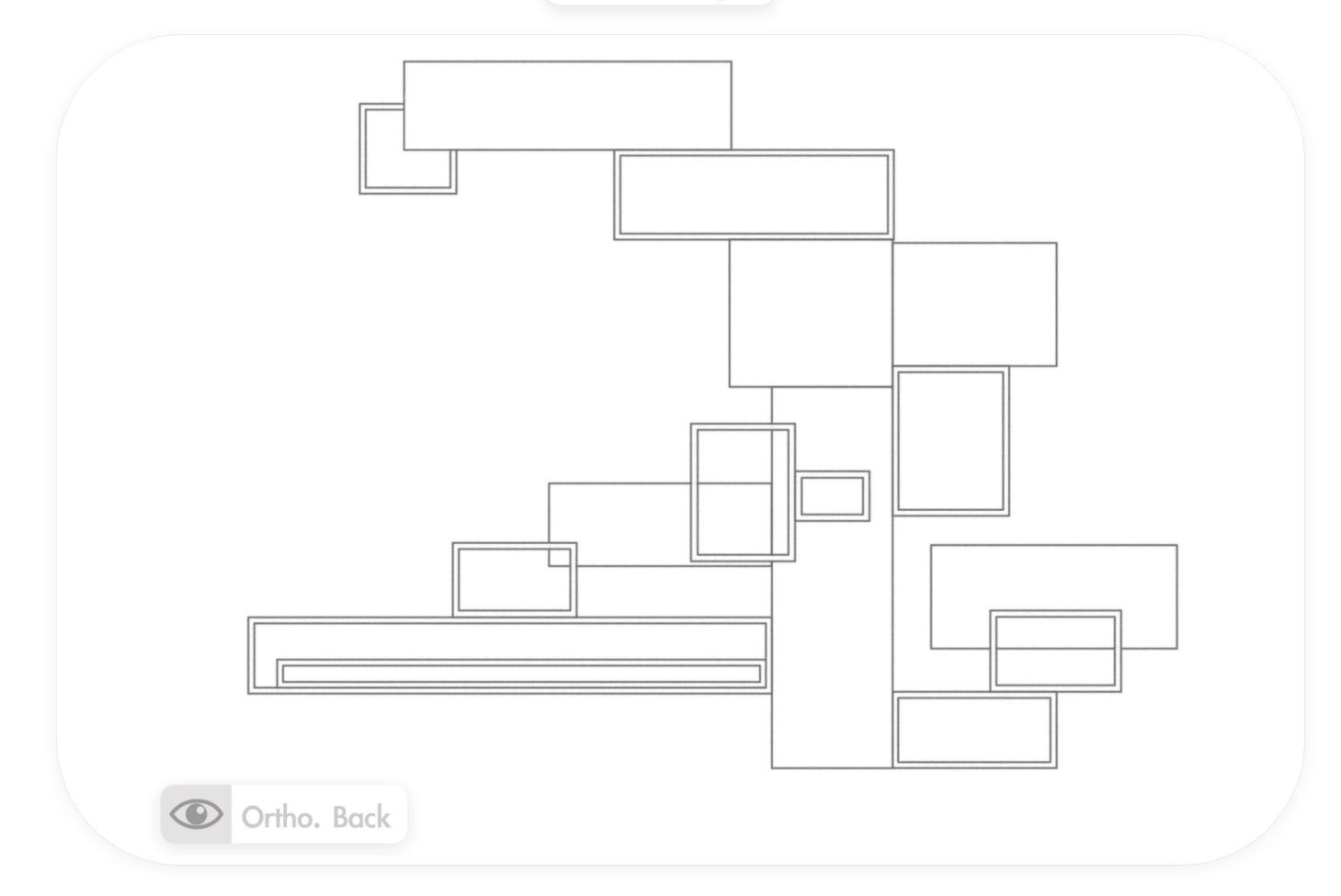


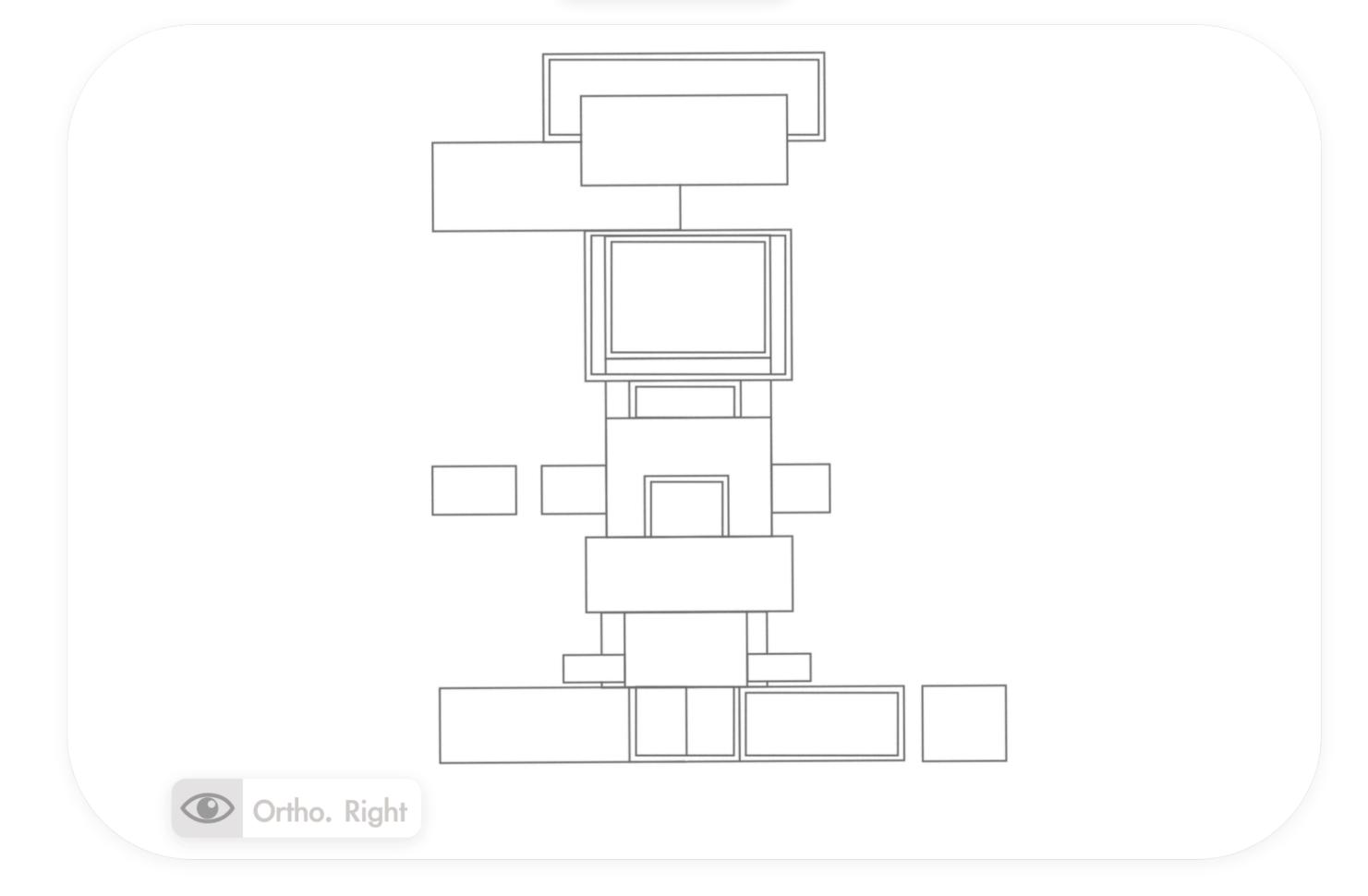


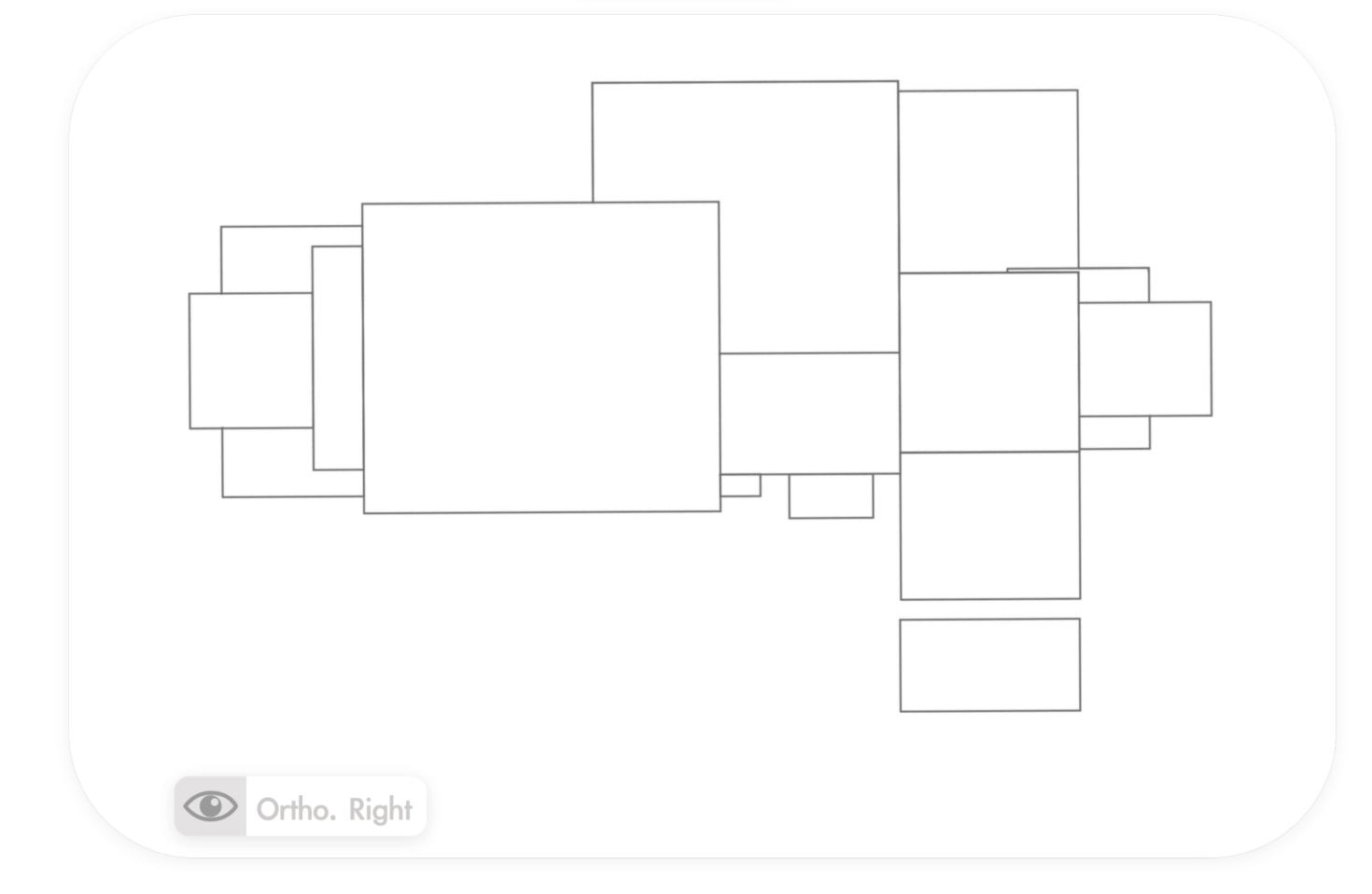


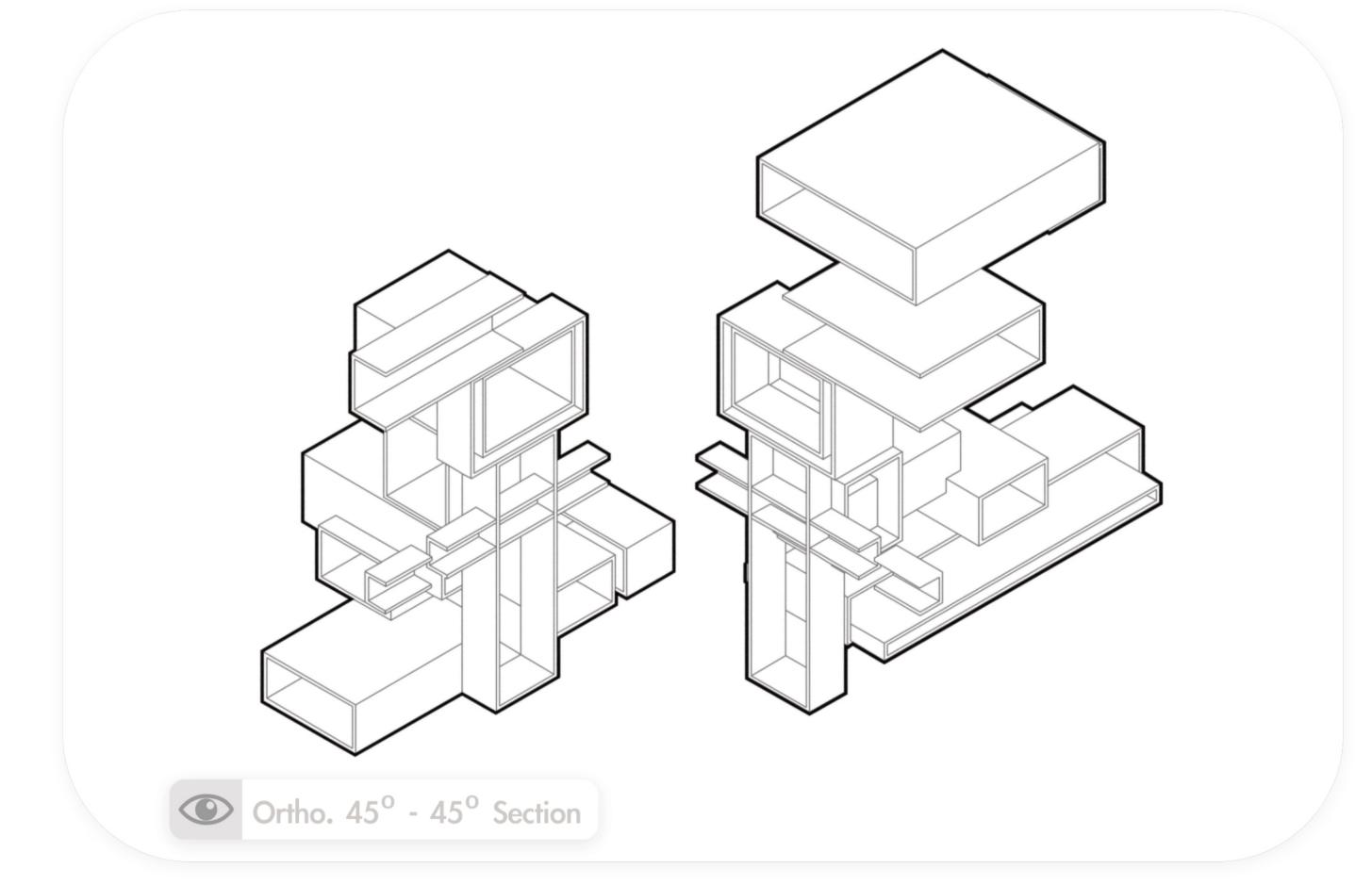


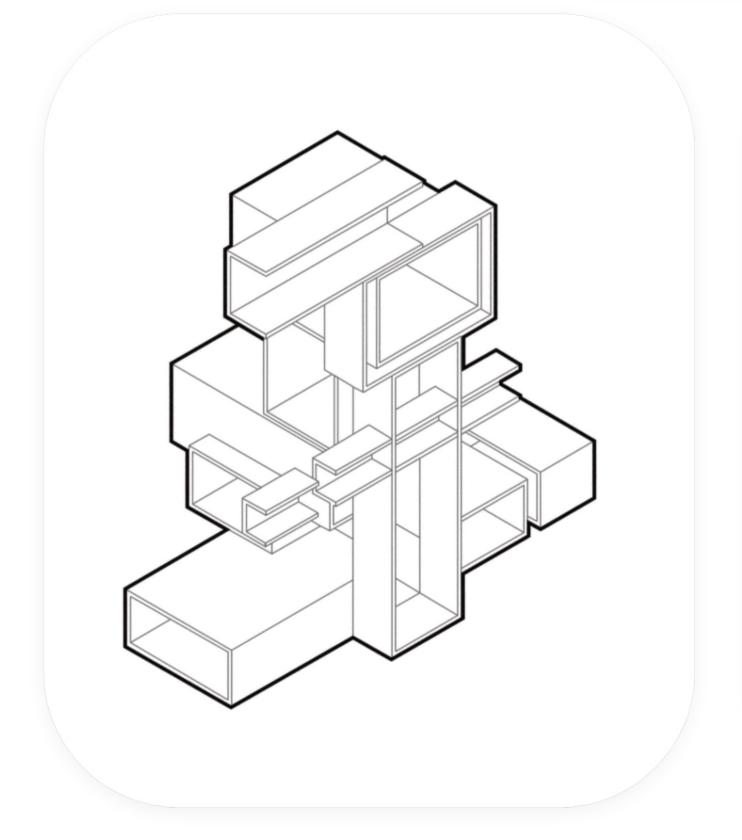


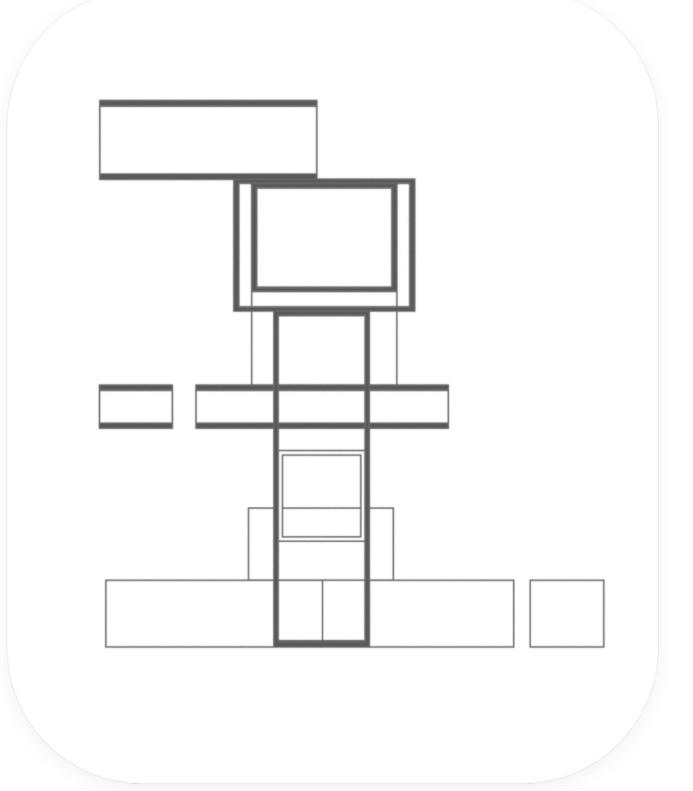


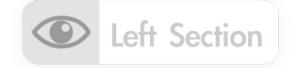


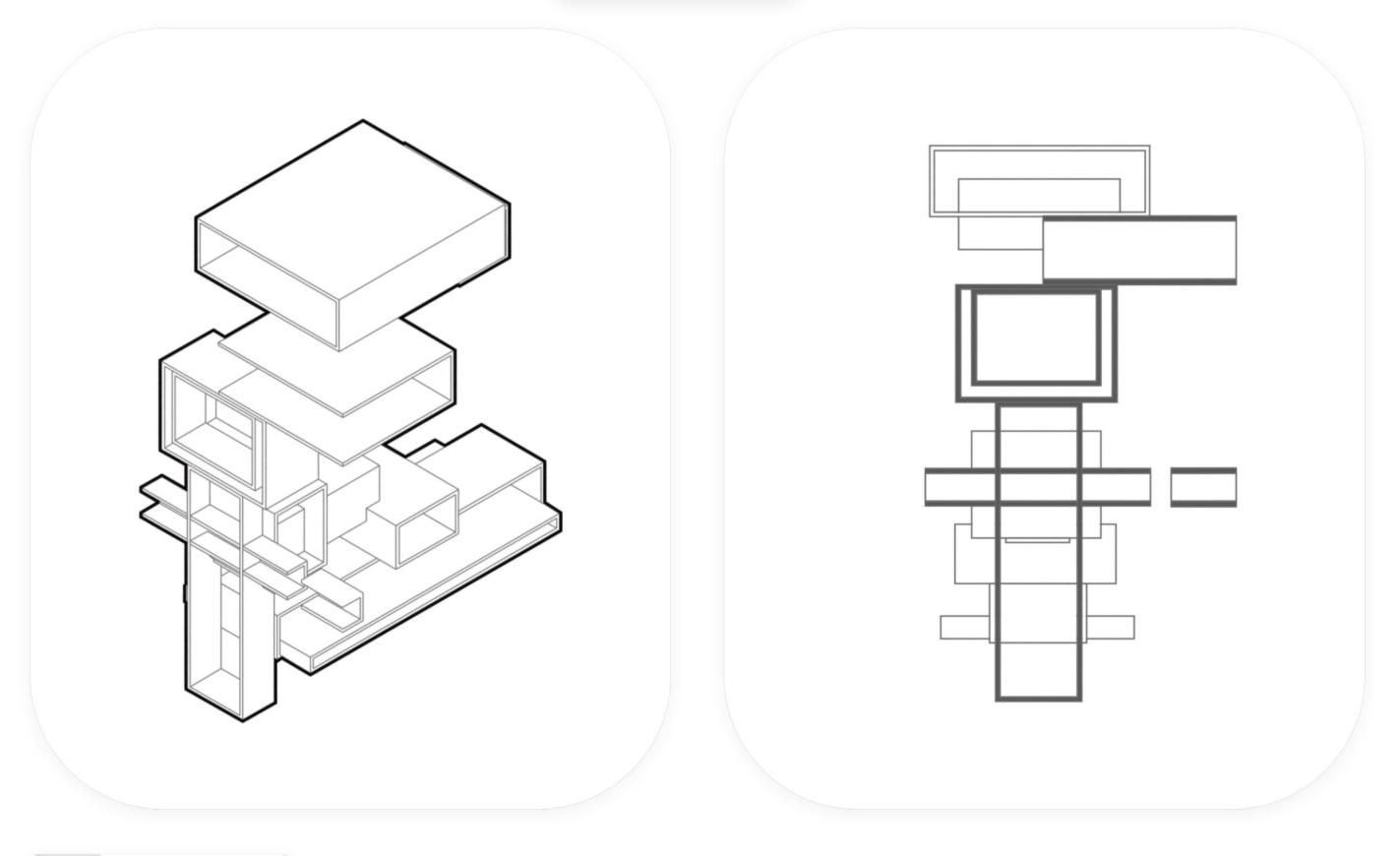






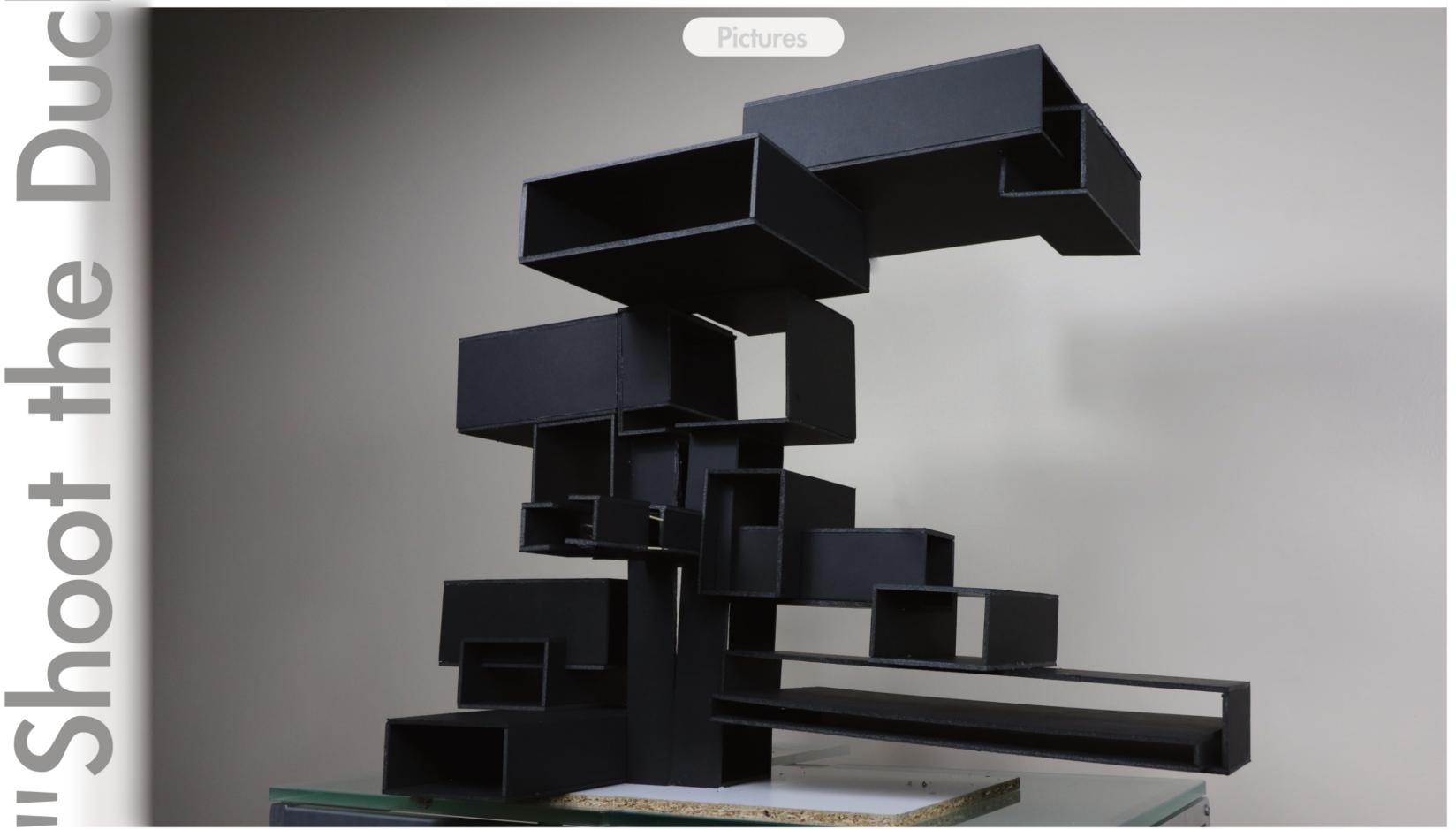
















Spatial Bodies in Motor

"Rolled Flat"

Ariel Levy

