Pixelhome

the future of living

OUR ROLE

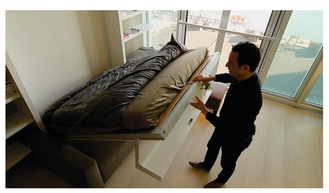
Develop space-saving adaptive furniture for small living spaces located in densely populated areas of the world.

WHAT IS IT FOR?

People spend the majority of their time interacting with furniture.
Common functions of furniture include: relaxing, serving food, entertaining kids and guests, and accommodate guests.

The modular design of the Pixel allows users to adapt their living space to creating accommodate a large range of functions.






Examples of current solutions: Suspended Ceiling Panels (1), Adaptive Floor Slides (2), Multi-Functional Space (3), Wall Panels (4)

RESEARCH

Based on the interviews that we conducted in phase I we were able to get a better understanding of how people use their furniture and how an adaptive furniture system could help people get more functionality out of their living space.

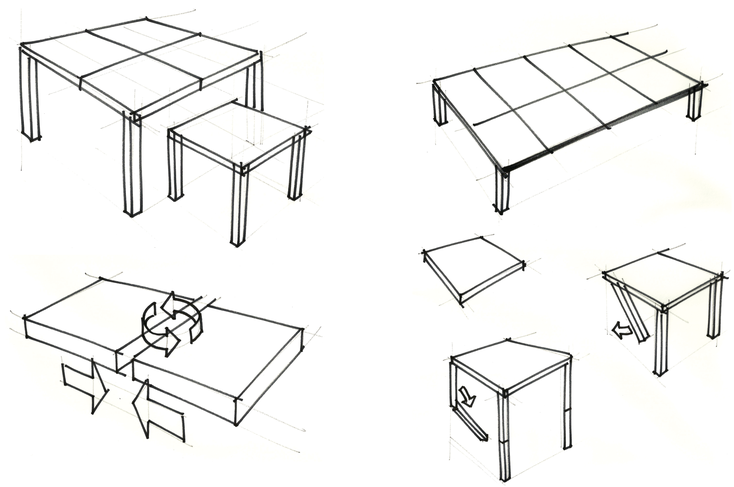
AVERAGE EXPENDITURE IN FURNITURE INVESTMENT



DESIGN CRITERIA

When designing The Pixel, we wanted to make the process of transforming furniture quick and easy

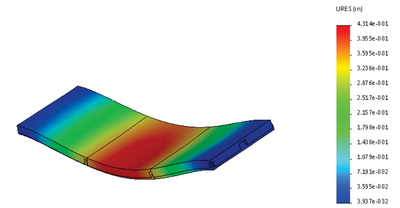
CONCEPT DEVELOPMENT



Above are various configurations and simple conceptualizations of how we planned our product to work

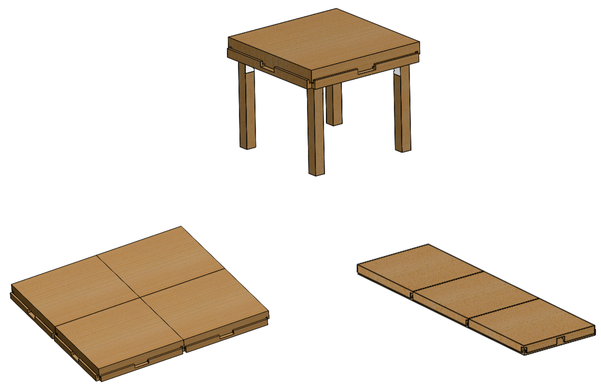
MECHANICAL ANALYSIS

The most important factors to be aware of is the different kind of people that will interact with the Pixel, which is why we have ran various FEA models, in order to see the limits of each configuration.



THE PRODUCT

It is actually quite simple to use the Pixel. All you need is to connect as many as you would like for the configuration. Then after connecting them using their unique locking system, simply lift the legs to the desired height and voila!



Renders of CAD Configurations for the Pixel

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