

# GENERATIVE DESIGN

## attributes

### Organic

is how an object reacts to its environment and its natural movement generates and how it's existence within its natural form or in structure. Also, in a microscopic structure of an object, we can imagine a very different type of motion, thus not being able to see the full event with all its complexity.

### Confusional

is a split of second when something repeatedly happens or an object replicates in a same pattern, suddenly we lose a meaning or value and its weight.

### Colorful

is the combination of different cultural traits, materials or knowledge that respecting the balance of an overall composition.



Grain cells



Charles Csuri -Random war



Colorful favela, Rio

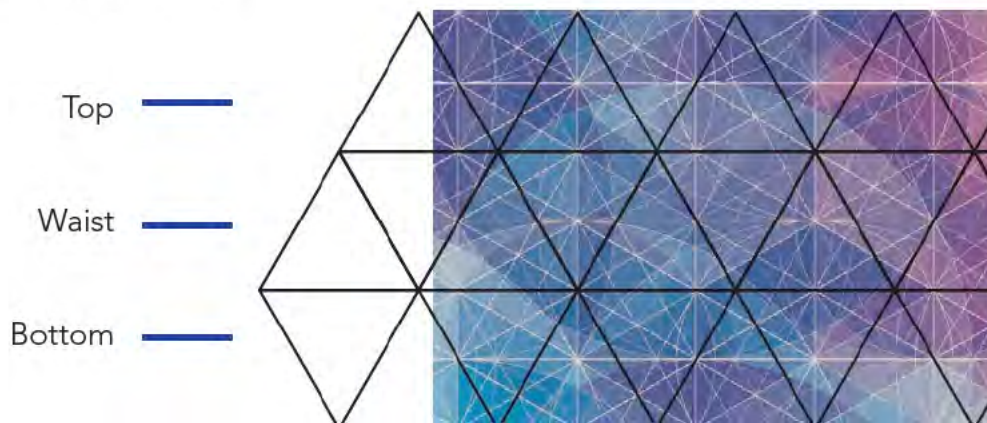
## project #1

### Objective

Build a method of creating a 3d printable object that works as an interface (a sense of a mouse) and is totally personalized to the user with generative approach.

### Catalyst & Paradigm

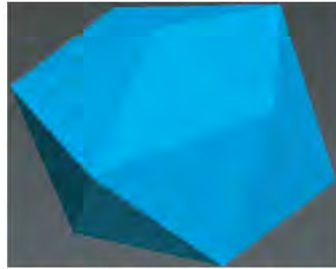
The image is made of several triangles, much like the planification of a icosahedron.



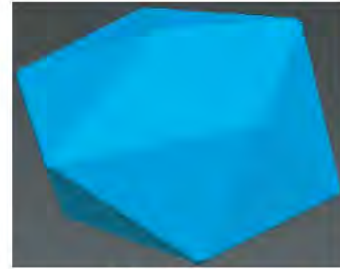
## Transformation tools



3.2 Colorful  
:fold harmonize



2.2 Confusional  
:Randomize areas



1.2 Organic  
:Bending the edge,  
vertex

## Context (How it works)



Object  
interface



Fast jiggle:  
Turn on major  
applications.

Voice input:  
right text  
with your voice.

Slow roll:  
Navigate.

Tap & swipe:  
enter & scroll/ free  
movement.

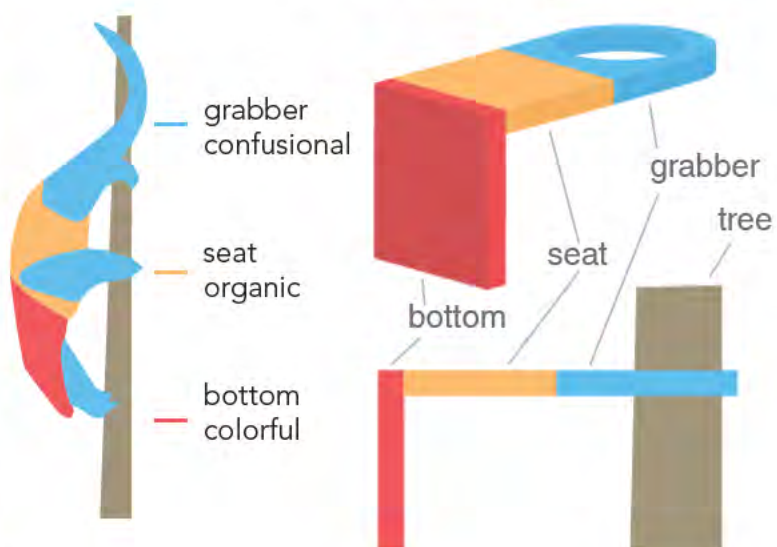
## project #2

### Objective

Develop a public bench for forests that adapts to any scenario/habitat its inserted.

### Catalyst & Paradigm

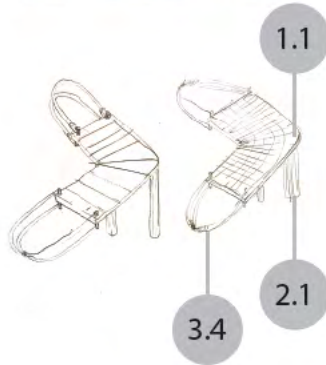
The approach was of biomimetics. Since the purpose was to create an adaptive bench, the source for interpretation was a arboreal anteater and the way it clenches to nearby vegetation.



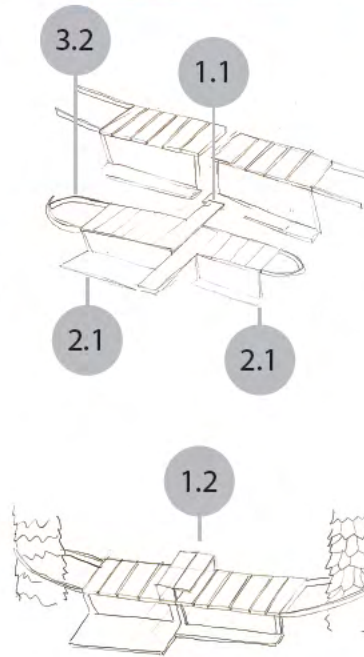
## Scenarios.

With the purpose to develop a system that would conceive a completely personalised bench according to the geographic region, three scenarios where conceived.

### 1. Amazon, Brasil



### 2. Maldives



### 3. Redwood park, USA

