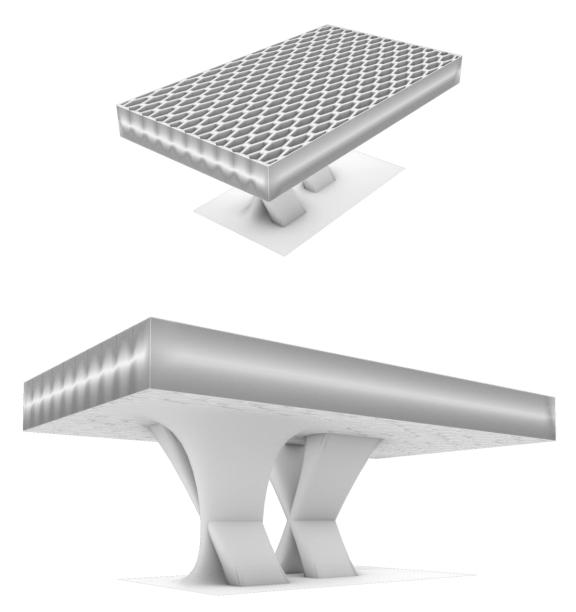
<u>Project 04 – Free Form Surface</u> <u>Modelling using meshes</u> <u>Nikshith Reddy Nagaraja Reddy</u>

This project aims at designing a pavilion making use of meshes. The process - involved creating a planar **Surface** on grasshopper. Copying the surface in **unit z** direction and **scaling** it. I then added the **Thickened frame** for the top surface using the **'LunchBox'** and **'WeaverBird'** Plugin. The next step involved using **'List Items'** which was used to model columns for the pavilion. I then converted the structure to a mesh using the **'weaverbird'** plug In and used the **Catmull-Clark Sub-division** to achieve smoothness. The final step involved using the **'fologram'** plugin to visualize the pavilion in a Virtual Reality format. Link \rightarrow www.nikshithreddy.com





• Entire Definition incorporating grasshopper, lunchbox, weaverbird and fologram plug ins.

Grasshopper Definition Sync Reservetors Weierbird's Cannoll Clark Subdivisi



Sync Parameters

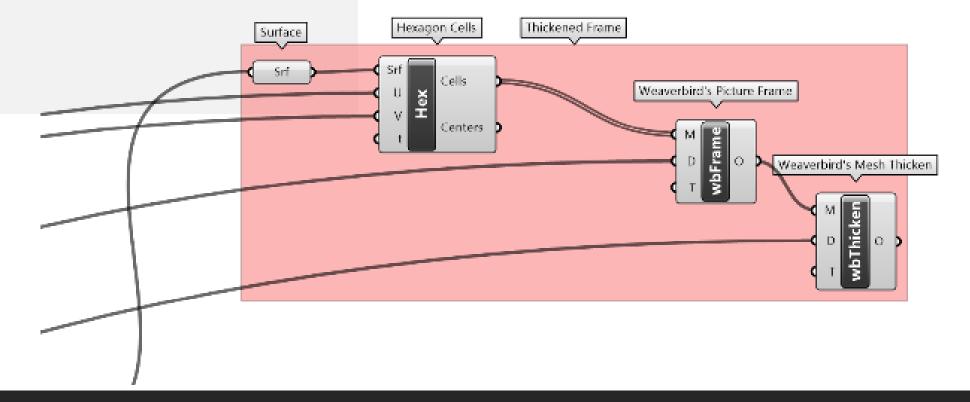
• InputParameters + Fologram components. Creation of planar Surfaces

Grasshopper Definition creation of second surface Scale Area Move eomei Center Input it z Each Motion 10.00 0 Division Creation of Surface Construct Domain 0 5.78 Result 4.50 0 Negative Scale factor 0 1.50 Division 0.52 0 Point list size Construct Domain Divisio 300 omain star Smooth Naked Edges 🛛 🔷 0---Negative 20 0 20.0 0 Frame Thickness 0.0.4



• Thickened Frame using weaverbird + Lunchbox

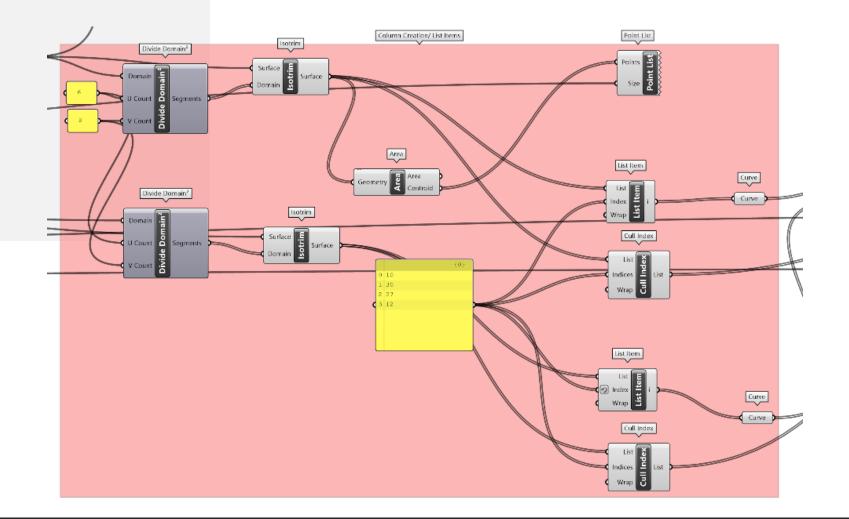
Grasshopper Definition



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• Creation of Columns with List Items

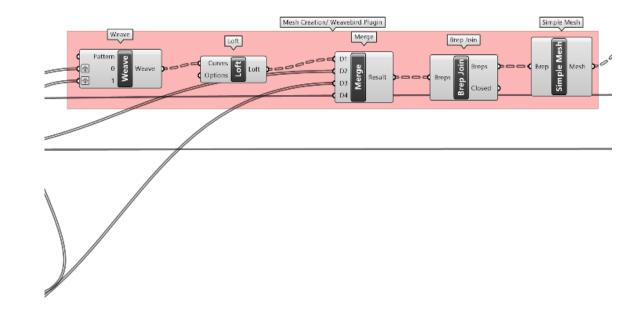
Grasshopper Definition



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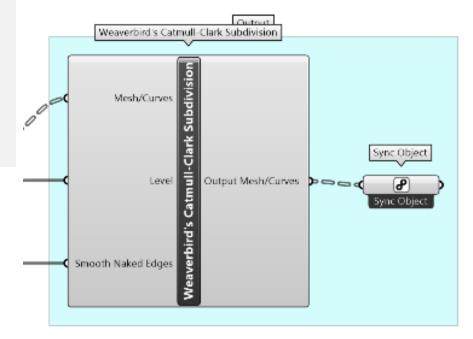
Grasshopper Definition

• Conversion to mesh using weaverbird plugin



Grasshopper Definition

• Weaverbird's Catmull-Clark Subdivision to achieve Smoothness + Sync Object to visualize results on Fologram.



Thank You