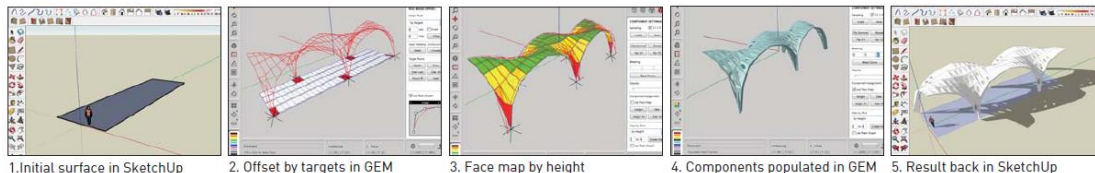




What is ParaCloud GEM?

ParaCloud GEM is a 3D Pattern Modeler. It was created to provide a simple approach for generating complex and rich 3D models without resorting to scripting of any kind (yep, not even "Spaghetti Wiring"). 3D Pattern Modeling is a new approach towards generative design. It works as easy as rendering images and textures on a surface, creating real 3D geometric patterns over your design surfaces. The 3D pattern can be controlled parametrically to match your design intent.



ParaCloud GEM is created by designers, for designers. GEM was created following more than 10 years of research in the field of design computation, making generative design more approachable than ever. We think of architects and designers as visual thinkers. GEM provides tools for realizing your design intent with simple visual logic. With ParaCloud GEM, the shapes and forms you think of becomes reality.

ParaCloud GEM Features:

- Component Population and Mapping

ParaCloud GEM provides an easy way for populating 3D components over your design mesh. Similar to rendering, only with 3D objects instead of textures. Up to 10 components can be used in a GEM session, following target points, preset maps, random or global settings.

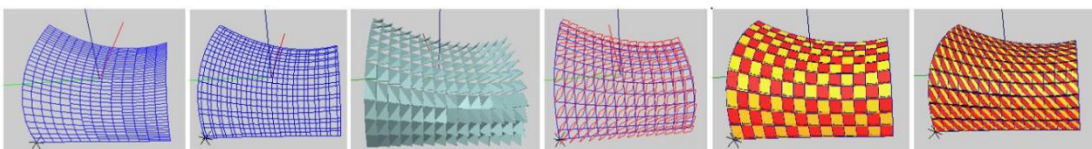
- Smart Subdivision Tools

ParaCloud GEM offers a variety of face subdivision tools. The subdivisions can be applied globally or to selected faces. The subdivisions can also be applied relative to proximity from target points and randomly. Mesh smoothing can be applied as a subdivision method.



- Mapping Tools

ParaCloud GEM includes mapping tools to assist with generating population patterns and edit the mesh faces. Face maps can be created relative to target points, using preset patterns, by face direction or randomly.



- **Smart Offsets**

ParaCloud GEM includes various offset methods, normal offset, variable distances, projection based and random. The offset defines the cellular containers for the components population.

- **Parametric Control**

ParaCloud GEM includes smart face tools that allow controlling the face behavior of both the main and offset meshes. Each face acts as a container for the component geometry and provides a parametric design operator that controls its behavior. The behavior can be related to target points, direction, fixed or random values.



- **Performative Intentions**

ParaCloud GEM provides tools for integrating the intended performative aspects of your design into the model. You can Control the behavior of components relative to points of interests or orientation, as well as export/import data to spreadsheets for use with analysis software like Autodesk Ecotect.

- **3D Printable Output**

ParaCloud GEM introduces tools for creating unfolded components layout and Ribs and components bleeding – developed for enhancing rapid prototyping processes. The geometry created with gem from watertight components is 3D print ready.



- **More Alternatives in Less Time**

ParaCloud GEM makes it easy to setup and create various design alternatives from a single model – you can simply explore different components, subdivisions and directions in just few minutes of work.

- **Works with Most CAD software**

Add generative power to your CAD system. GEM works with any software supporting OBJ, STL, DXF and Collada formats including Google SketchUp, Rhino, 3DS Max, Maya and many more.

- **For All Users: Novice and Experts, on Windows and Mac**

ParaCloud GEM is a great solution for both novice and experts. GEM offers an easy and fast learning curve and requires no scripting of any kind. GEM offers a straight-forward approach to generative design that can integrate at any point in your design workflow. It works on Windows and Intel-Based Mac (OSX).

:: More information at www.paracloud.com :: All Rights Reserved ©2006-2010 ::