



ParaCloud|GEM

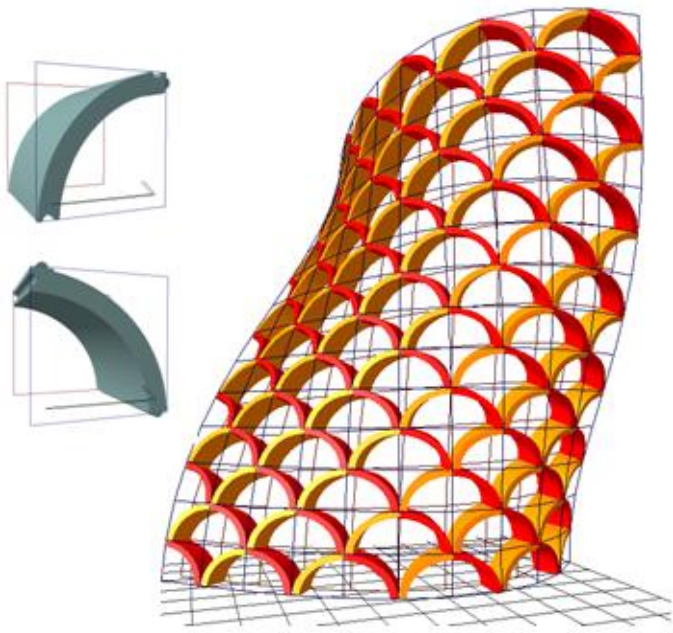
GENERATIVE DESIGN SOFTWARE

Complexity Made Simple

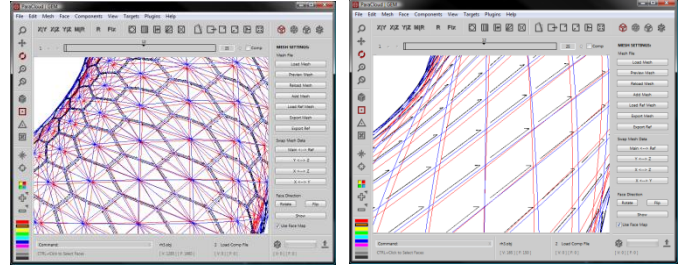
- » A new approach for generative design
- » Unique new set of design tools
- » A power boost for any CAD software
- » Exciting new design possibilities
- » Available for Windows and Mac os X

» **It's Simple.** If you are a designer, and not a computation geek, GEM is for you. With GEM you can create generative parametric models with no need for scripting or Spaghetti Wiring. Complexity was never so simple.

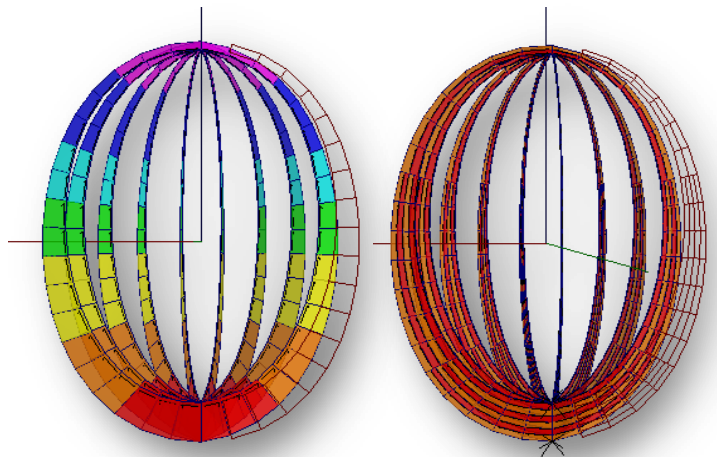
» **Components Mapping.** ParaCloud GEM provides an easy way for populating 3D components over your design mesh. Similar to rendering, only with 3D objects instead of textures. Up to 10 components can be used in a GEM session, following target points, preset maps, random or global settings.



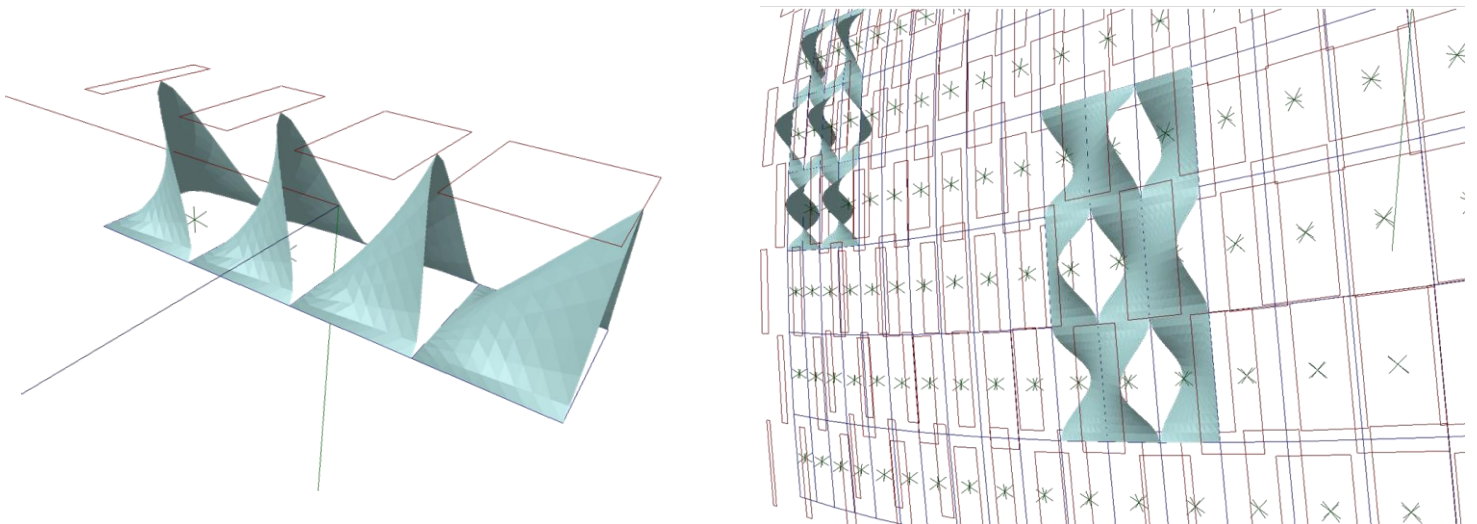
» **Smart Subdivision Tools.** ParaCloud GEM offers a variety of face subdivision tools. The subdivisions can be applied globally or to selected faces. The subdivisions can also be applied relative to proximity from target points and randomly. Mesh smoothing can be applied as a subdivision method.



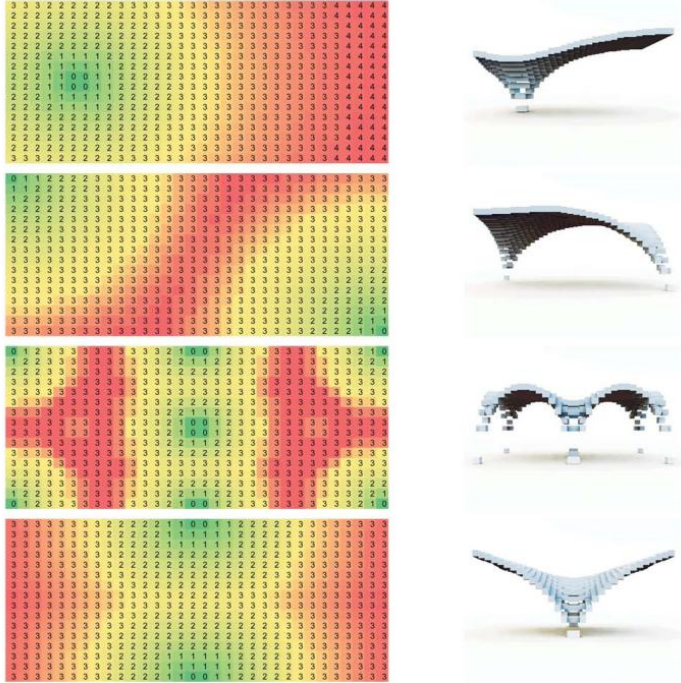
» **Offsets and Build-Ups.** ParaCloud GEM includes various offset methods, normal offset, variable distances, projection based and random. The offset defines the cellular containers for the components population. GEM provide tools to define and manage multi-layered skin build-ups.



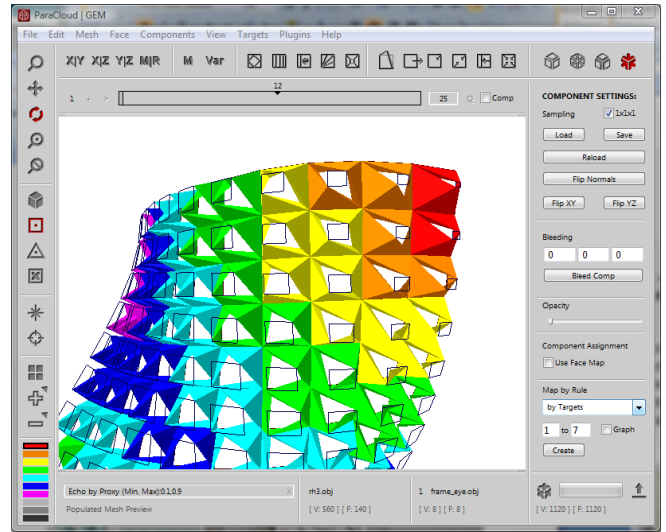
» **Parametric Control.** ParaCloud GEM includes smart face tools that allow controlling the face behavior of both the main and offset meshes. Each face acts as a container for the component geometry and provides a parametric design operator that controls its behavior. The behavior can be related to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



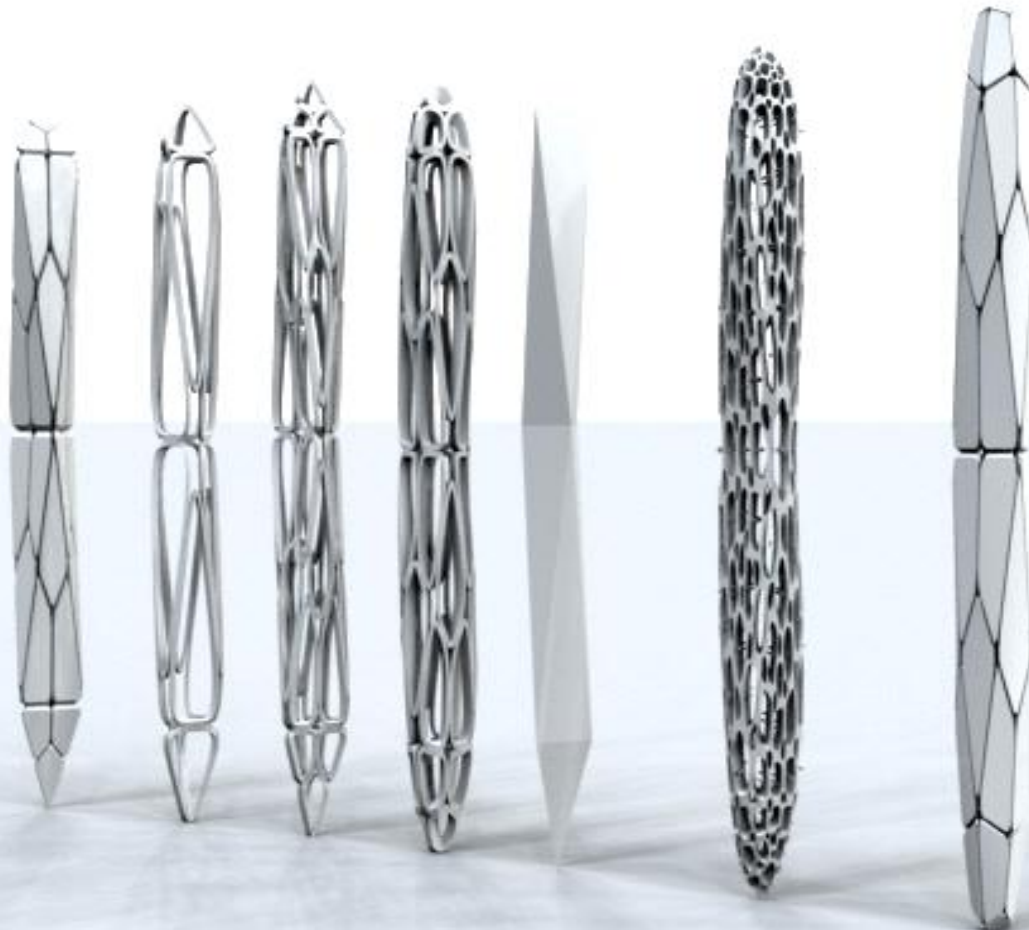
» **More Control.** ParaCloud GEM provides advanced control over your design model. You can edit your design meshes to the level of an individual face or sets created with smart mapping tools. ParaCloud GEM provides smart tools to manage offsets, buildups, parametric transformations and components proliferations.



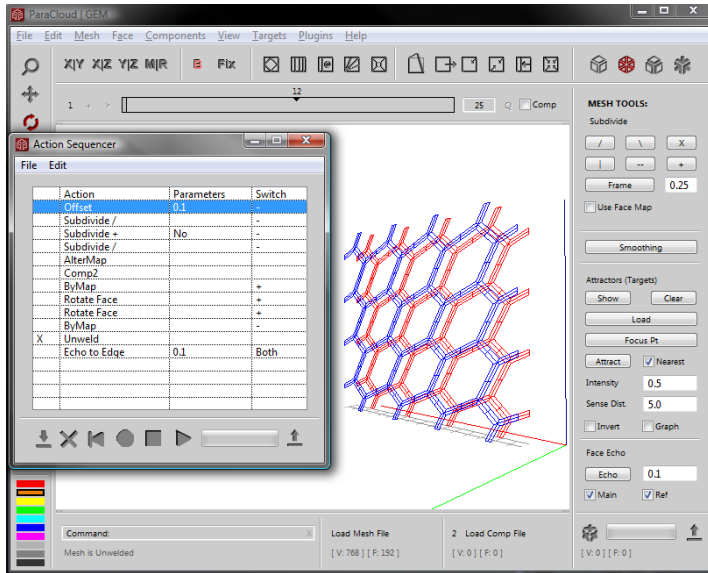
» **Performative Intentions.** GEM provides tools for exploring expected performative aspects of your design. Specify point of interests and relationships to explore variations of your design mesh and components. Using CSV and Excel interface you can import analysis results and control the components and mesh geometry in GEM. Explore more alternatives in less time.



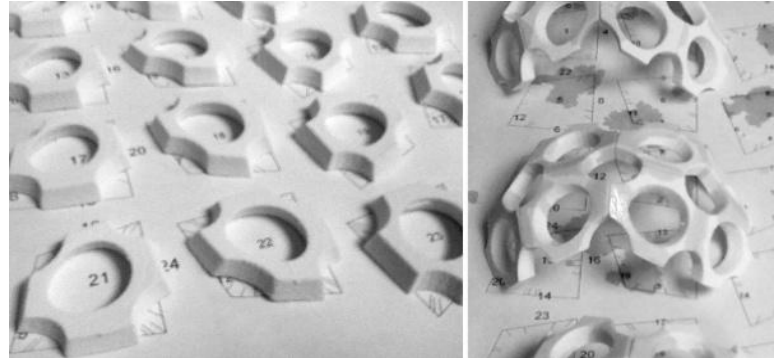
» **Explore Design Alternatives.** ParaCloud GEM makes it easy to setup and create various design alternatives from a single model – you can simply explore different components, subdivisions and directions in just few minutes of work.



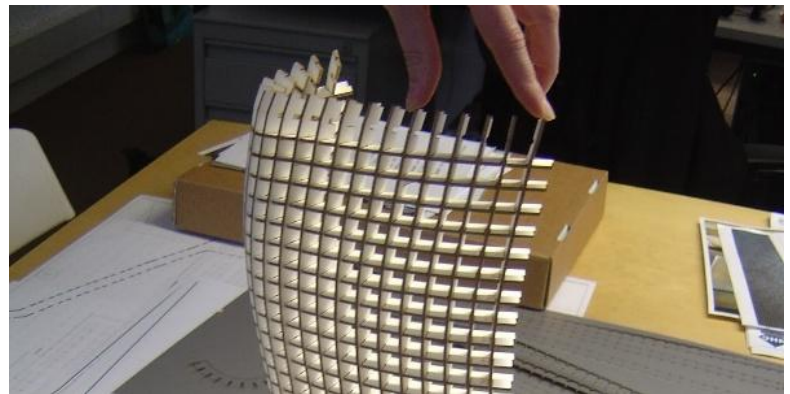
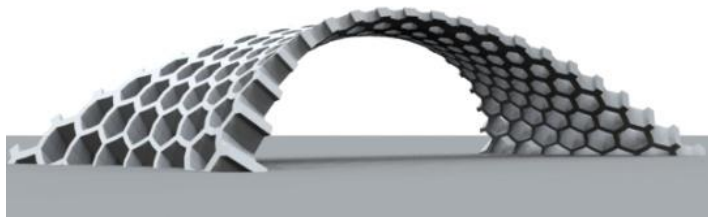
» **Action Sequencer.** ParaCloud GEM includes a parametric modeling sequencer that captures your modeling workflow. The sequencer provides an editable parametric interface for regenerating the 3D pattern DNA. Explore, develop, control and share your 3D patterns in a simple and easy way.



» **3D Printable Output.** GEM can generate 3D printable output, including an unfold layout tool for placing the components of your model in the fabrication plane. GEM makes it easy to document the components for shop drawings and supports multi-layered materials for rendering and 3D printing.



» **Ribs and Frames.** GEM provides tools for automatic generation of Ribs and Frames systems from the design mesh layout.



» **Fast Learning Curve.** In just a few hours, you'll be up to speed with the power of ParaCloud GEM. Free video tutorials are available online for self paced learning, as well as the friendly online support by the ParaCloud Team.

» **Web-Ready Output.** Share models on the web using VRML 2.0 and COLLADA output directly from GEM.

» **Knowledge Base and Support.** The ParaCloud Team is providing not just technical support but share our knowledge and expertise with our customers. Our team can assist in integrating ParaCloud GEM in your design workflows.



» **Compatibility.** Works with Most Popular CAD Software. Add Generative Tools to SketchUp (Free and Pro), Maya, 3DSmax, Rhino and any CAD supporting OBJ, STL, DXF and COLLADA. Available now for Windows and Intel-Based Mac (OSX).

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