It is a capital mistake to theorize before one has data. Insensibly one begins to twist facts to suit theories, instead of theories to suit facts.
Arthur Conan Doyle

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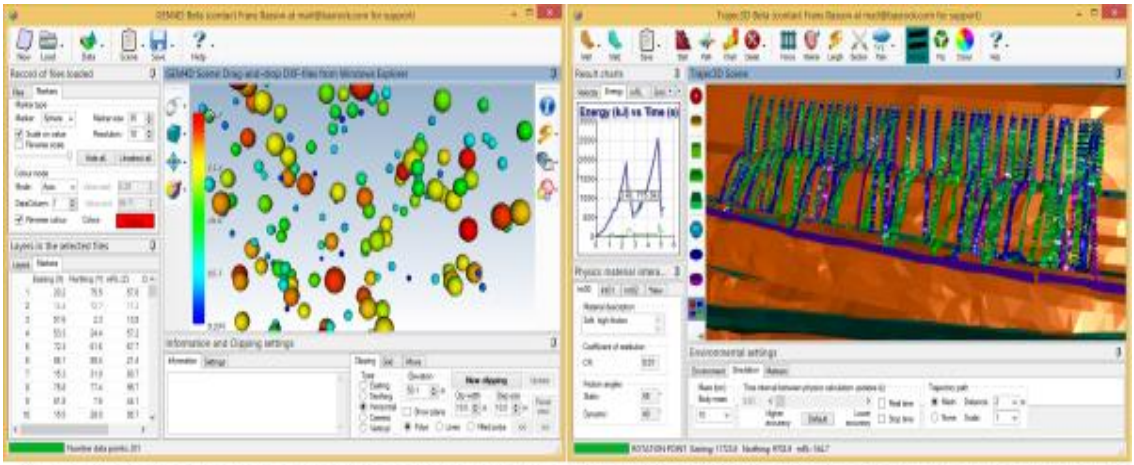
BasRock Software for Geotechs Newsletter

November/December



GEM4D data markers scaled and coloured on value Trajec3D multiple simultaneous fall bodies and fences

The BasRock site contains 8 freeware software packages for download from here.
The latest software in development are currently also available at no cost:

- Trajec3D - a three-dimensional rigid body dynamics rock fall analysis program.
- GEM4D - a 3D "drag-and-drop" DXF-visualiser that is focused on the needs of Geotechnical Engineers.
- PhotoCoreLog - image preparation and recording of core logging measurements from photographs.

New stuff: Windows 8.x impact

Keeping the software installations under "C:\Program Files" in Windows 8.x require administrator rights and will complicate installations on work computers. I decided to rather use "C:\BasRock\SoftwareName", which will keep all BasRock software packages in one main directory.

The main additions and changes from the last newsletter:

GEM4D

See blog post "GEM4D Version 1.5.0 available for download" for details.

1. Substantial improvements to the point data visualisation functionality. Different data markers can be selected and then scaled

- Profu - very early stage of Probability of Undercutting (Cumulative Frequency Analysis) software.

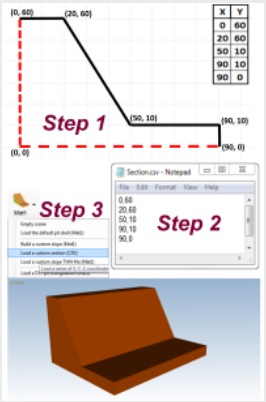


Figure 1

Figure 2

and coloured according to selected column values.
2. Changing the rotation point in plan view previously resulted in erratic camera behaviour and was corrected.
3. Major changes were made to the snapping implementation, it is now also able to snap to transparent polygons, lines and points.
4. The measuring tool now supports multiple consecutive measurements, and the lines can be exported as DXF-strings, where the layer names show the segment lengths.
5. The clipping plane is now a powerful visual indicator when activated.
6. Data marker clipping is activated.
7. Multiple error catchers were added and refined.

Trajec3D

See blog posts "Trajec3D Version 1.6.1.0 available for download" and "Trajec3D Version 1.6.2 available for download" for details.

1. Ability to read a CSV section-file with coordinates, and then automatically generates triangulations (see Figure 1 left).
2. Multiple fences can be added to the scene (see Figure 2 left).

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