# GeoEasy<sup>os</sup> 3

The development of the GeoEasy program started in 1997. Twenty years later in 2017 it has became free software under GPL license, freely available for everybody. The ComEasy module of the project was released under open source license from the beginnings (seehttps://github.com/zsiki/ComEasy).

The core development of GeoEasy is made on Linux operating system, using Tcl/Tk script language, thanks to the Tcl/Tk ports to several operating system the program can be used on Linux, on Windows (32 and 64 bit version), on Android tablets and on OSX machines. Intensive tests of the code were made on Linux and Windows only

#### New features:

German, Czeh, Russian GUI Tcl console for your scripts Portable windows release Variable column widths in field-books Parallel line regression

Vertical transformation KML export of coordinate list Many bugfixes More than 180 commits and 43 issues solved after 3.0

### Objectives

User friendly graphical user interface Modular, extendable structure Direct process of data from total stations

Flexibility and openness connecting to other programs

Download the binary release for Windows and Linux:

Educational and professional usage

http://digikom.hu/english/geo\_easy\_e.html

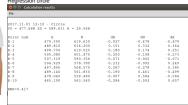




|               | _geo                             |                                   |                        |   |
|---------------|----------------------------------|-----------------------------------|------------------------|---|
| Commands C    | Calculate Help                   |                                   |                        |   |
| tation number | Point number<br>Reference object | Signal height<br>t Instrument hei | t Horizontal angle Ver | tical angle Slope distance<br>Horizontal distance |
| kalvaria      |                                  | 1.450                             |                        |   |
| kalvaria      | ordogorom                        |                                   | 328.7886               |   |
|               | 5004                             |                                   | 363.7417               |   |
|               | 5002                             | 1.300                             | 377.5179               | 954.730   |
|               | szegvar                          |                                   | 78.9108                |   |
| ordogorom     |                                  |                                   |                        |   |
|               | 231                              |                                   | 258.7759               |   |
|               | 5004                             |                                   | 302.0500               |   |
|               | 5002                             |                                   | 331.1481               | 1117.280  |
|               | kalvaria                         |                                   | 371.4846               |   |
| 231           |                                  |                                   |                        |   |
|               | magyarlak                        |                                   | 379.9639               |   |
|               | gurgohegy                        |                                   | 58.6701                |   |
|               | 5002                             |                                   | 223.3142               |   |
|               | 5004                             |                                   | 236.2438               |   |
| kuphegy       |                                  |                                   |                        |   |
|               | szegvar                          |                                   | 323.2898               |   |
|               | kalvaria                         |                                   | 394.9256               |   |
|               | 5002                             |                                   | 32.9941                | 1078.440  |
|               | 5004                             |                                   | 56.8861                |   |













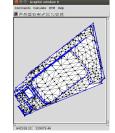


### 3D line, parallel lines Digital Terrain Models DXF import

Solving engineering surveying tasks

Regression lines, plan, circle, sphere,

Regression calculation





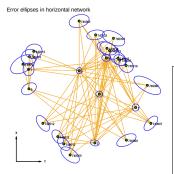
1D/2D/3D geodetic network Normality check Data snooping

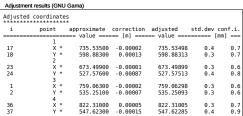
Network sketch with error ellipses

TIN models Break lines Contour lines Volume calculation VRML, KML, DXF, ASCII GRID export

Update, regenerate

Exported GRID model in OGIS 3





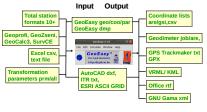








### Connections to other programs through data sets



### OS software used GNU Gama (https://www.gnu.org/software/gama/) Triangle (https://github.com/MrPhil/Triangle) Proj (https://proj4.org/) NSIS (http://nsis.sourceforge.net/Main\_Page) Freewrap (http://freewrap.sourceforge.net/)

## Let us develope GeoEasy together!

Source code available on GitHub (https://github.com/zsiki/GeoEasy) Report the errors you found in issue tracker (https://github.com/zsiki/GeoEasy/issues)

Extend and correct the documentation (https://github.com/zsiki/GeoEasy/doc) Help other users (https://github.com/zsiki/GeoEasy/wiki)