

GeoEasy^{os} 3.1

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 (see https://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:

Graphic window

Graphic window 0

89980.51 1126.93

Commands Calculate DTM Help

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

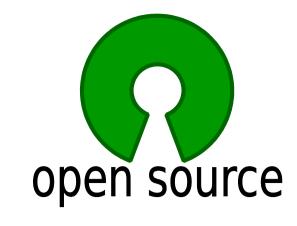
Objectives

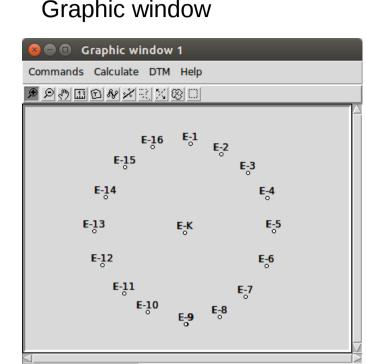
User friendly graphical user interface Modular, extendable structure

Direct process of data from total stations

Flexibility and openness connecting to other programs

Educational and professional usage





-0.478

0.332

0.174

-0.108

-0.002

-0.479

0.364

0.251

-0.273

0.249

0.385

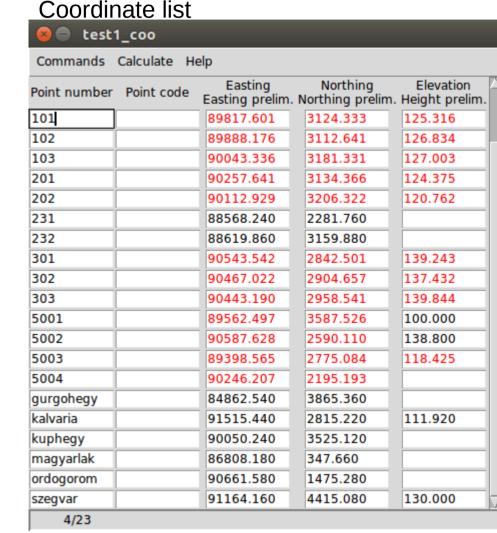
-0.499

-0.584

-0.027

0.180

Field-book 328.7886 363.7417 377.5179 954.730 78.9108 5004 302.0500 1117.280 5002 331.1481 371.4846 379.9639 magyarlak 58.6701 223.3142 5004 236.2438 323.2898 394.9256 32.9941 1078.440 5004 56.8861



http://digikom.hu/english/geo easy e.html

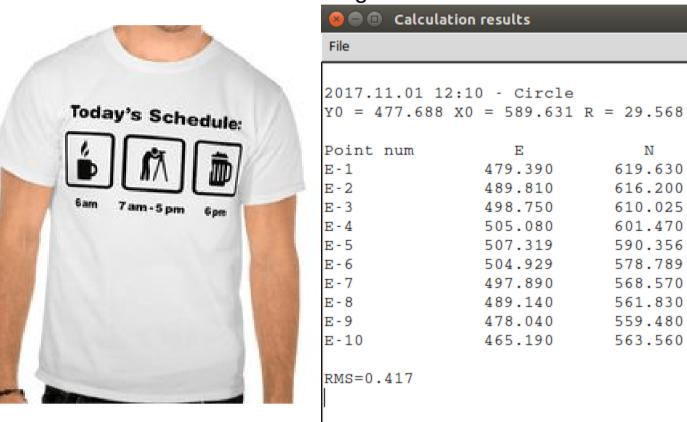
Download the binary releases for Windows and Linux:

Development tool

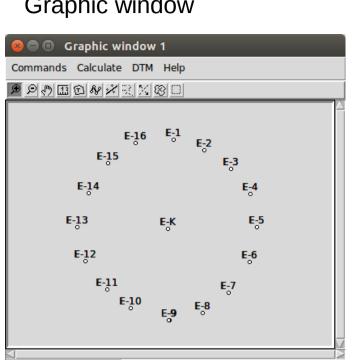
Console window to run ad-hoc Tcl commands

Extend the functionality of GeoEasy with user defined scripts loaded from file

Write your own app using GeoEasy as a library



Regression circle



Surveying calculations

Edit field-books

Intersection, resection, orientation, ... Traversing, trigonometric line Coordinate transformations

(several formats)



-0.278 561.830 0.461 -0.190 559.480 0.584 563.560 -0.592 -0.284 TIN model (Triangle) 🖣 🗇 🕕 Graphic window 0

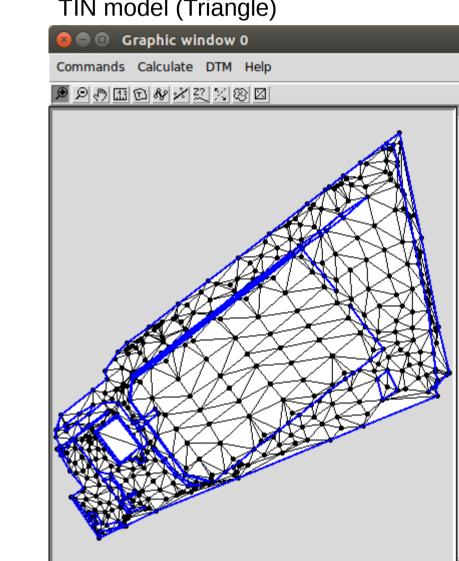
Coordinate list and field-book import

DXF export

Regression calculation

Solving engineering surveying tasks Regression lines, plan, circle, sphere,

3D line, parallel lines



Network adjustment

1D/2D/3D geodetic network

Normality check

Data snooping

Network sketch with error ellipses

Digital Terrain Models GeoEasy **DXF** import

TIN models

Break lines

Contour lines

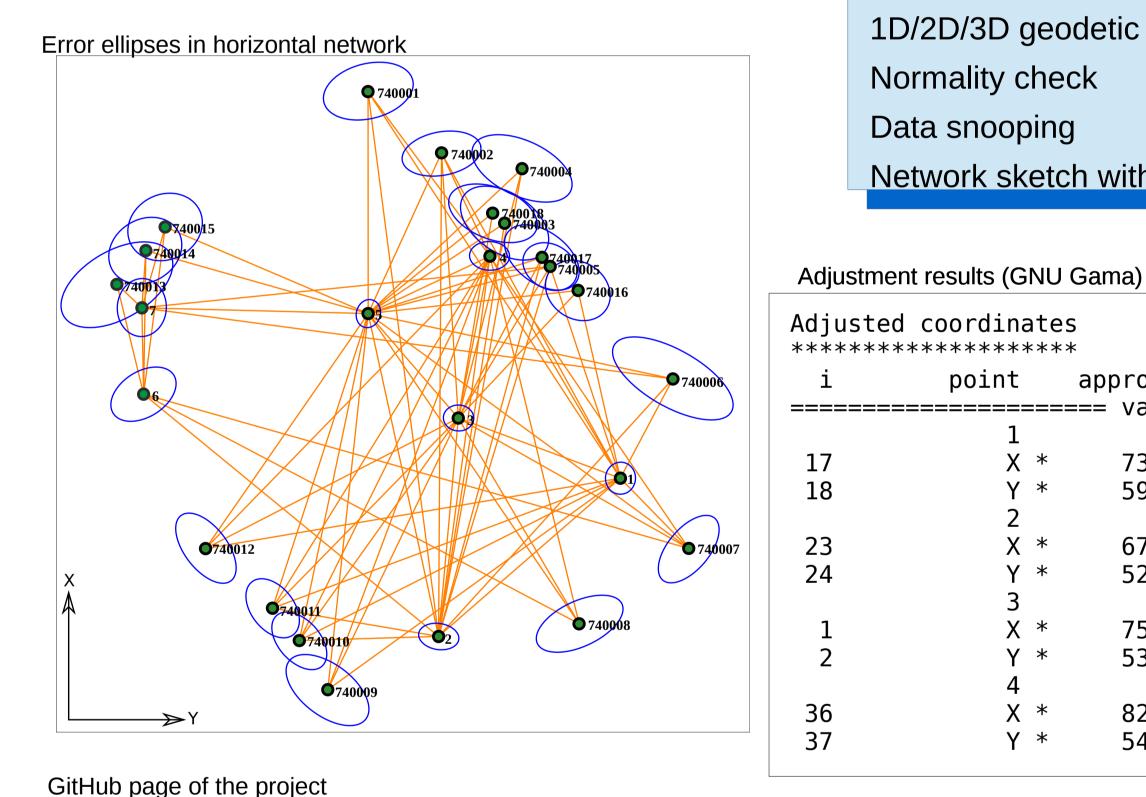
Volume calculation

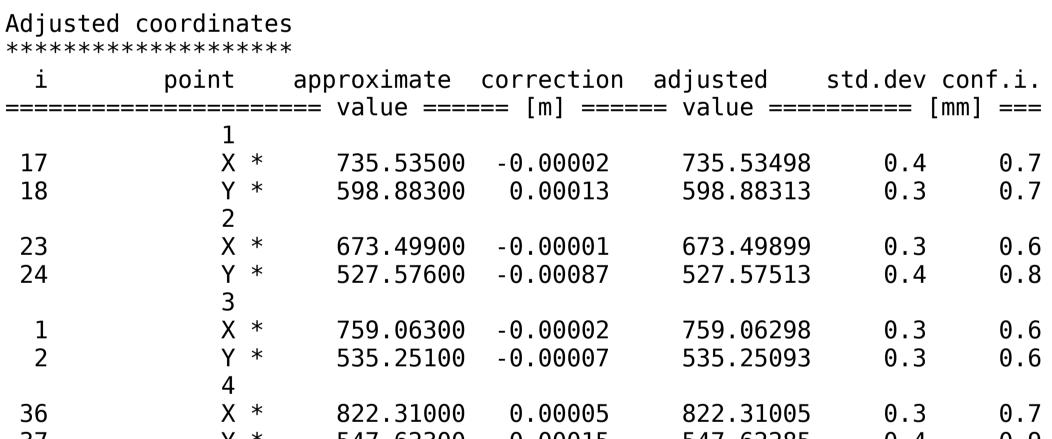
Cross sections VRML, KML, DXF, ASCII GRID export

Update, regenerate

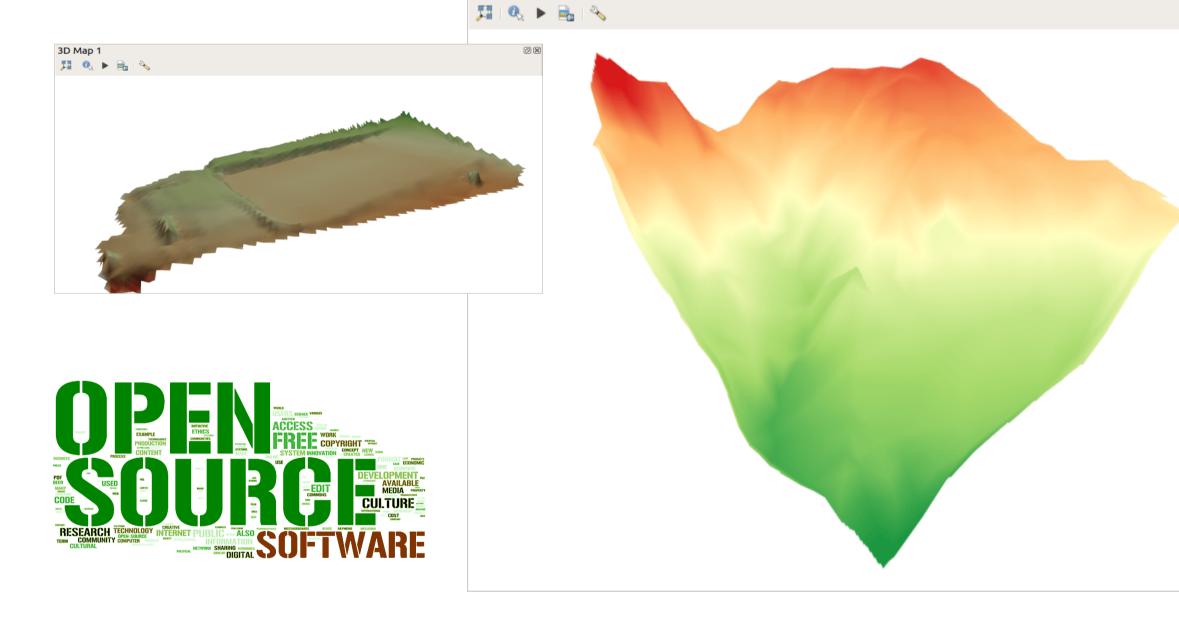


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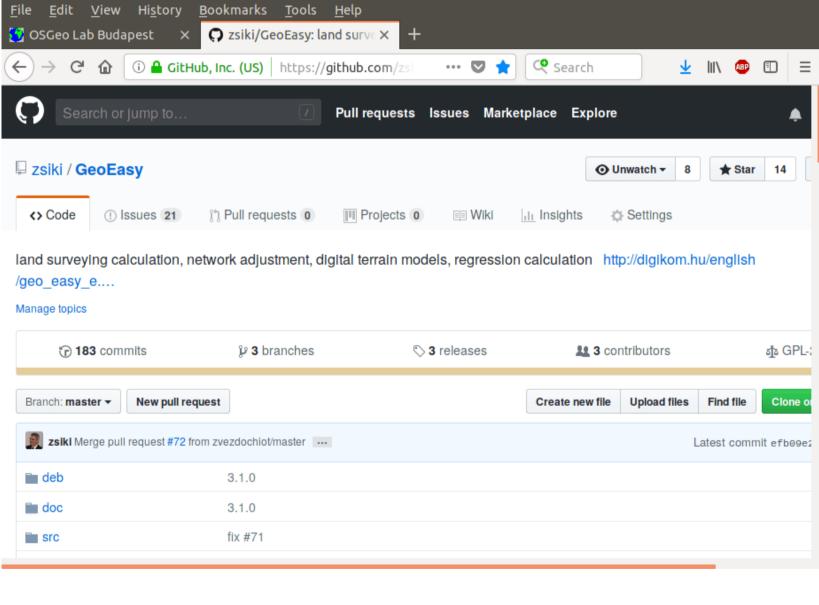


37 547.62300 -0.00015 547.62285 0.9





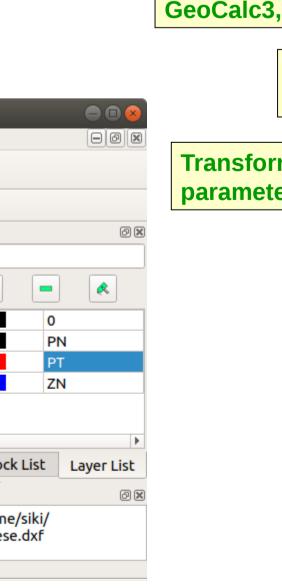
3D Map 1

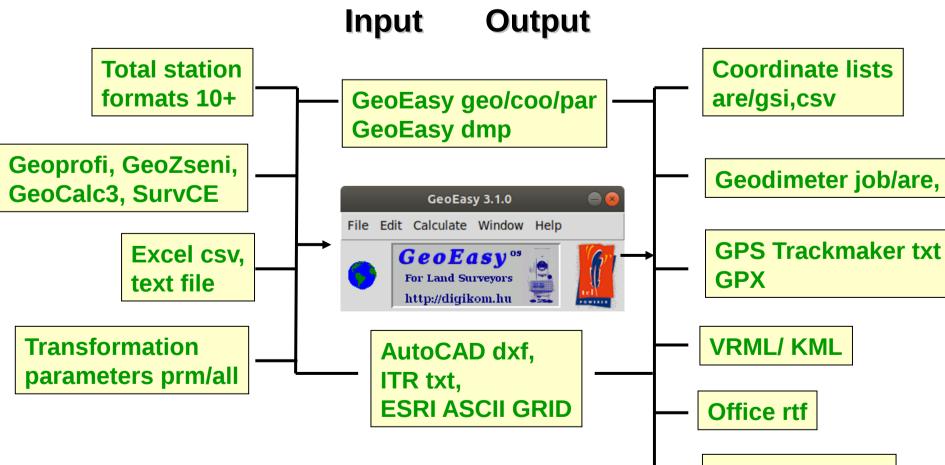


iki/GeoEasy: land surveying calculation, network adjustment, digital terrain models, regression calculation - Mozilla ... 🖱 🗊 🛭

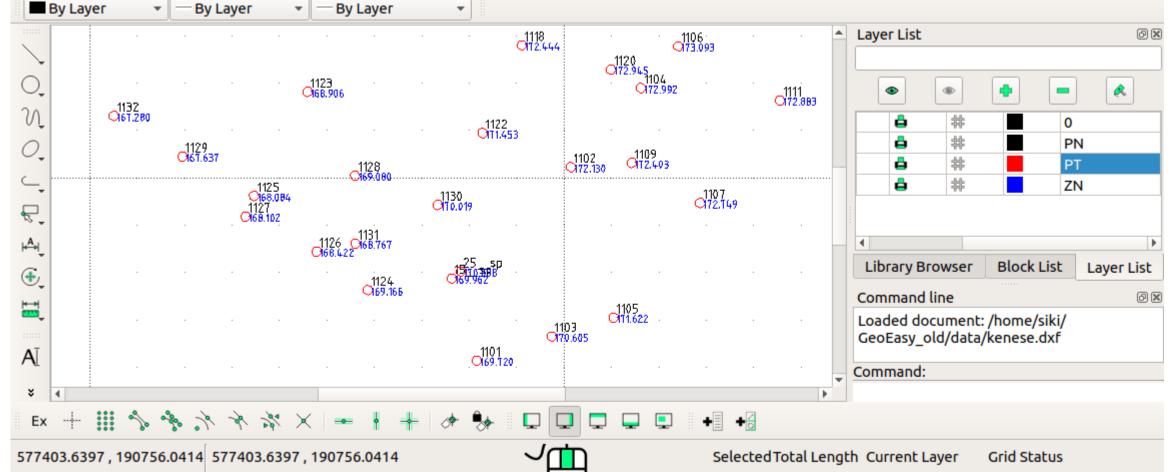


<u>k File Options Edit View Plugins T</u>ools Widgets <u>D</u>rawings <u>H</u>elp





Downloads 2017 October - 2019 April 3.0.0 -+ 160 $3.0.1 \longrightarrow$ 3.0.2 × 3.0.3 140 3.1.0 — 3.1.1 —— 120 all ----



LibreCAD - [/home/siki/GeoEasy_old/data/kenese.dxf]

OS software used

Tcl/Tk (https://www.tcl.tk/)

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)

