Installation Guide GeoEasy 3

GeoEasy can be used on any Window/Linux box. There are no special requirements for the hardware.

Supported operating systems

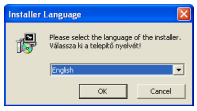
- Windows XP/2000/7/8/10 32 or 64 bit
- Linux with X11 Ubuntu/Fedora/debian 64 bit
- Android (experimental)

Windows Installation

Windows binary release

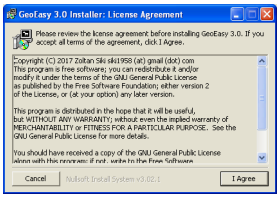
To install binary release on your Windows machine dowload the installer from http://digikom.hu/english/geo_easy_e.html, it is generated by NSIS (Nullsoft Scriptable Install System), an open source installation kit generator for Windows.

Start the installer (Gizi3xxSetup.exe). First you have to select the language for installation (English, German, Hungarian).



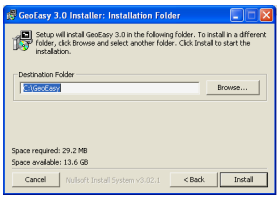
Select installation language

After selecting the language for installation a setup wizard starts. In the first dialog read and accept the license agreement.



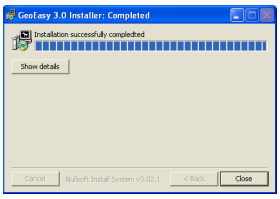
Accept license agreement

In the second dialog select the target folder for the installation. Please do not choose an installation path, which contains space or special characters.



Select target folder and start installation

In the last dialog you can start the installation process.



Exit wizzard

After successful installation the GeoEasy icon can be found on the desktop and in the programs menu.

GeoEasy icon

Windows portable release

There is a portable Windows zip file. It should be unziped into a new empty folder (for example c:\GeoEasy). If you would like to export to GPX or KML format, set up an environment variable *PROJ_LIB* to the root directory of GeoEasy.

```
setx PROJ_LIB=C:\GeoEasy
```

Linux Installation (Ubuntu)

Prerequisites

Install tcl/tk on your platform (https://www.tcl.tk/software/tcltk/)

```
sudo apt-get install tcl tk
```

Install proj (https://proj4.org)

```
sudo apt-get install proj-bin
```

Install GNU Gama (https://www.gnu.org/software/gama/) There is no binary package for Ubuntu, make it from source.

Install Triangle (https://github.com/MrPhil/Triangle)

```
sudo apt-get install triangle-bin
```

Debian package

There is a Debian package for Debian/Ubuntu Linux distributions which can be downloaded from http://digikom.hu/english/geo_easy_e.html, it is a standard Debian package (geoeasy*version*-wheezy_all.deb). You can use the package manager to install it (right click on the file in the file manager or use dpkg)

```
sudo dpkg -i geoeasy*version*-wheezy_all.deb
```

To start GeoEasy select it from the menu or type in the terminal window:

```
geoeasy
```

The Debian install package was created by https://github.com/zvezdochiot.

Ubuntu binary release

There is a compressed Linux binary release which can be downloaded from http://digikom.hu/english/geo_easy_e.html, it is a simple tar-gzip (Gizi*version*Linux.tgz) file. The following commands have to be executed (it is supposed the tgz file is downloaded into your home directory):

```
mkdir GeoEasy
cd GeoEasy
tar xvzf ../Gizi3xxLinux.tgz
```

You can start GeoEasy from the installation directory using the command:

```
cd ~/GeoEasy
./GeoEasy
```

You can create a shell script file to start GeoEasy from any directory.

```
pushd ~/GeoEasy
./GeoEasy
popd
```

Copy this file into a directory on the PATH.

Install source release (Ubuntu)

Download the source files from GitHub (github.com/zsiki/GeoEasy) either the zip file or *git clone* the repository. If you would like to update your version regularly, then the *git clone* should be prefered.

```
git clone https://github.com/zsiki/GeoEasy.git
```

Change directory to **GeoEasy/src** and run the following commands from the command line, to prepare it.

```
cd GeoEasy/src
make source
chmod +x geo_easy.tcl
```

Make a symbolic link from the GeoEasy/src directory to the external programs.

```
cd GeoEasy/src
ln -s /usr/bin/cs2cs cs2cs
ln -s /usr/local/bin/gama-local gama-local
ln -s /usr/bin/triangle triangle
```

Alternatively you can change the path to these programs in the geo_easy.msk file.

```
set gamaProg {/usr/local/bin/gama-local/gama-local}
...
set triangleProg {/usr/bin/triangle}
...
set cs2csProg {/usr/bin/cs2cs}
```

Or if the commands are on the PATH input only the name of the commands in the geo_easy.msk file.

```
set gamaProg {gama-local}
...
set triangleProg {triangle}
...
set cs2csProg {cs2cs}
```

> ***Note***
>
> The path to the external program may be different, depending on your settings and Linux distro.

To start the program use the following command from the **src** directory:

```
cd GeoEasy/src
wish geo_easy.tcl
```

or

```
cd GeoEasy/src
./geo_easy.tcl
```

To update to the actual master on GitHub simply *git pull* it, from the GeoEasy directory.

```
cd GeoEasy
git pull
```

The preparation should be repeated (make source).