

OK Geometry Delta

Version 18.1.2

It is possible to set a layer (1-5) for a filled shape with the Anchor button. Layers are visible only when the solid hatch is used for filling overlapping shapes.

Version 18.1.1

Improved commands/operations

Corrections in importing files from other systems of dynamic geometry.

Changed the presentation of the list of potentially detected geometric properties.

Improved command_for labelling points.

Improved command for conforming icons in Project view. The command for conforming icons is moved to the context menu.

Improved module for exporting images of a construction and the report of a project.

Improved module for expressing numbers as radicals.

In exact display the first horizontal/vertical guides are coloured blue and the following in red.

The display of found properties can be restricted to those involving a specified objects. It is possible to set the level of restrictions.

Several minor improvements and corrections.

Added

New triangle centres added. For centres over 32000, their transformation is not considered in the analysis.

Width of lines in a construction can be increased/decreased by a factor.

A transformation can be applied to objects with a right click on the transformation section.

Added a test for tangency for conics.

Added the construction of a tangent to a conic, parallel to a given line.

In Project view it is possible to copy icons within project or between different projects.

An F1 button (call to Glossary) is added in Editor Menu (Plus mode). The Glossary (F1) now considers the construction commands as well as explanations.

User can at any time choose between the exact or perturbed mode of displaying configurations.

Figures can be exported in SVG format. It is possible to export figures also via Inkscape.

Discontinued

Users cannot add new test for numerical relations between geometric quantities.

Export of figures does not use Ghostscript any more. Ghostscript is thus not required anymore.

Updated

The translation to Czech is updated. *Thanks to Irena Strausova!*

Updated and improved documentation.

Added several triangle centres and bicentres.

Version 17.2.2

Thanks to Ercole Suppa for many helpful suggestions.

Changed the appearance of the blue dot. Also changed the modality of exact (static) and perturbed view. Now each is constant and can be changed anytime. However, some constructions do not the exact (static) view.

The glossary and command index now show information from documentation, including the path to the commands. Furthermore, the command can be called from the glossary.

The reviewing construction steps form now shows also scenes.

Improvements in importing constructions from Cabri and GeoGebra.

The program now warns if the constructed locus is a line, circle, conic.

Added a visual help for Shapes and Check commands.

New triangle centres added.

Augmented the number triangle centres.

Slightly modified the way of using WhatIs and Glossary help in text windows. The Edit help level can be 0-3.

Added a list of triangle commands. Useful for searching a command with a description.

Significantly improved Editor help system, both in commands glossary and in help widget.

Modified form for remodelling objects. The attributes (colors, width, type of line/point) can be changed for single objects or for multiple objects (button More). Objects to be modified can be

selected according to the colour, type, shape of pointed objects. For example, selecting blue colour and pointing to a green circle one can colour to blue all green objects or all circles or all green circles.

The command Inversion to circle is moved to Transformations. Inversion can be applied to circles, lines, points.

A significant change involves the representation of sketches. The sketch can be shown in 2 modes:

1. The perturbed mode (blue dot) - all free points are randomly moved in each representation.
2. The exact mode (gray dot) - the objects are shown as they were defined (though usually not shown), thus without perturbation. This mode is used in making ikons, exporting sketch etc. In this way we can obtain purely horizontal/vertical lines, if desired.

By default and whenever an observation is done the mode automatically turns to perturbation mode. Whenever an icon or export is done the mode turns automatically to exact.

The user can change the mode by a left click to the blue/gray dot.

When two consecutive points are drawn in exact mode the program checks if they are approximately horizontal or vertical. If this is the case the program sets the coordinates so that a perfect horizontal/vertical alignment is obtained. Note that this occurs only in exact mode and the alignment is visible only in exact mode.

A new command 'Action|Visually align 2 points' in Sketch is added. With this command two free points in a construction are aligned horizontally or vertically (whichever is closer). Note that the perfect alignment is visible only in the exact mode or when the sketch is printed, copied, iconised.

It is possible to visualise the construction steps in the current sketch. Use the command Commands|Construction steps. To move forth and back use mouse, Left-Right keyboard or mouse scroll.

Several new triangle objects have been added.

The 'Triangle index' command is improved. Right click at the explanatory text shows the options, which allow a direct link to glossary, direct link to triangle index, and copy of the (unformatted) text to clipboard. There is also a hidden command for obtaining the list of objects in the index: write 'Indice' (no braces, case sensitive) in the search area.

Version 17.1.8

Thanks to Ercole Suppa for many helpful suggestions.

Small changes in colouring explanatory text for triangle objects/commands.

An index of triangle objects has been added. It is accessible at Commands|Triangle index.

Added export of sketches to emf vectorised format. This is done via an external program Inkspace that needs to be installed by user.

Modifications in making reports. Now three types of reports are (basically) possible: htm (with image pictures, LaTeX (with vector images), doc (with image pictures or emf pictures).

Several new triangle items added.

Improved command Conform icons. Icons can be just redrawed using changed parameters (e.g. suppress perturbations, change hatch mode)

Version 17.1.7

Thanks to Ercole Suppa for many helpful suggestions.

Improved export of images in pdf format.

Improved display of coloured text in comments.

Improved options of filling objects (Mark area). It is possible to control density of filling in random and solid fills.

Added option of writing reports in TeX format. After eventual elaboration of TeX file nicer reports can be made.

Several new triangle items added.

Most forms (e.g. selecting Special commands, results of Triangle analysis) can be extended in width/height.

Improved process of writing up a record in doc format: images need not be unlinked any more. Formats of reports (htm, doc, pdf) are also improved.

The first ikon (Task) now serves explicitly as title ikon. Can be changed, but not deleted, cannot change the first position in report.

In importing/reading construction the user can decide whether to preserve the current project or not.

Added possibility of solid fill (besides dither and random) in marking areas.

Version 17.1.5.

Thanks to Ercole Suppa for many helpful suggestions.

Added export of construction in vectorised formats (ps, pdf, epsi).

Added export of Ok Geometry constructions to static Geogebra constructions. Useful for export in various image formats in GeoGebra (e.g. EMF format).

Version 17.1.3

Improved editor of scenes.

Version 17.1.1

Documentation is updated. Including the translation to Slovenian and Czech. Thanks to Irena Strausova.

Modified way of representing perturbation of points (now blue dot on display). Right click on blue dot display a useful for options.

Colour selection (for colouring new objects or modify existing objects) is simplified.

Added the option of selecting icons to be included in the printed report.

Added the importing of constructions form C.a.R.

Removed the command Toggle label.

Added a limit of displayed properties for very common triangle objects.

Added new ETC points (currently abut 32000 in total). Points above 16000 are used in a reduced way and with less accurate tests.

Some buttons for commands added in Sketch editor (Midpoint, Bleach, etc.).

Added test in Triangle analysis: points are detected also using projectivities $ABCX_i \rightarrow ABCX_j$ for reasonably small i, j .

Change in Triangle analysis: besides the variable centre now user numerical parameters can be changed as well for iterative analysis. Filtering of properties significantly changed.

Improved inspection of points and objects in Observation. Points can be declared as unknown. This is a much more friendly way of of filtering found relation. Consequently, explicit filtering relation has been removed.

Version 16.1.8.

Added the option of copying attributes of an object to all scenes in an icon.

Added new ETC points (currently abut 16000 in total).

Version 16.1.6

Labels in sketch can be positioned also with mouse.

Some new commands added in Sketch menu (e.g. insimilicentre, exsimilicentre).

Added interaction in Glossary of triangle items (clicking on explanatory text displays glossary related to clicked word).

Added new ETC points (currently about 13 000 in total).

Added possibility of displaying object as transparent (in Scenes and Big icons).

Subscripts in labels are not any more displayed in sketches.

Version 16.5.

Ikon names can be edited directly in Report view.

Improved usage of Triangle variable centre.

Added control button for (non)displaying auxiliary lines in sketches.

Users can choose whether preserve current project when reading a new construction from file.

By default icons are now ordered in a matrix fashion.

Added a new representation of ikons as a flowchart in Report view.

Added import of construction from JGEX (format txt).

User can control gamma in importing images.

Version 16.4

Some tests in Triangle analysis are now ignored if the analysed triangle is a right triangle.

Version 16.3

F2 can be used to save current work.

Size of labels in report files can be set independently of the size on display. The same holds for width of lines, text , points.