How to make custom tools on GeoGebra Classic?

A tutorial to create custom tools on GeoGebra Classic.

In GeoGebra Classic, it is possible to create your own tools (for example, a tool that constructs the midpoint of a segment or the perpendicular bisector of a segment). This allows you to reuse constructions without repeating all the steps.

Example: creating a midpoint tool

We explain how to create a tool that takes two points A, B as input and returns their midpoint.

Step 1. Construct the object.

- Create two points A and B.
- Construct two circles: one centered at A passing through B, and one centered at B passing through A.
- Let C and D be their two intersection points.
- Draw the line (CD).
- Let M be the intersection of (CD) with the segment $[AB]$.

Step 2. Create the tool.

- Click on **Tools** in the menu bar.
- Select **Create New Tool**.

A window opens.

Step 3. Select the output.

- In the list of objects, select the point M.
- Click **Next**.

Author(s): Ximera Development Team

Step 4. Select the input.

- Select the points A and B as input objects.
- Click **Next**.

Step 5. Name the tool.

- Give a name to your tool (for example: *Midpoint*).
- Click **Finish**.

Using the tool

Your new tool now appears in the toolbar.

To use it:

- Select the tool,
- Click on two points A and B,
- GeoGebra automatically constructs their midpoint.

Remarks

- You can create tools for more complex constructions (perpendicular bisector, angle bisector, tangent to a circle, etc.).
- Tools are especially useful when performing many constructions in the same activity.
- You can save an activity and reuse the tools later by copying the file.