

## Using the Moodle GeoGebra Filter

GeoGebra is an open source dynamic mathematics application created by Markus Hohenwarter. See [www.geogebra.org](http://www.geogebra.org).

This is a slight modification by P.Tierney-Fife of of an original filter by J. Maeusle (see: <http://moodle.org/mod/data/view.php?d=13&rid=585&filter=1>), and, in the case of the versions which access the GeoGebra .jar files at geogebra.org, an extension of the filter by F. Sonner (see: <http://www.geogebra.org/forum/viewtopic.php?f=20&t=4219>).

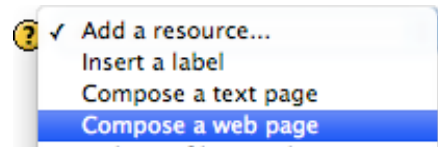
The changes are a larger default GeoGebra view size, added applet parameters (added the reset icon and disabled shift-drag-zoom capability), and adapted instructions including tips on installation options. The filter.php file is changed to remove two line breaks after the closing php tag (at the end).

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## Displaying GeoGebra Applets

1. In Moodle, open the Web page, Forum, or Quiz item in which you want to include the GeoGebra tool. If you are starting a new web page, go to:

Add a resource...> Compose a web page.




2. Complete the information. In the body of the content (for a web page, in the “Compose a web page” section) type and then highlight text you will use as a link to the GeoGebra file. This text can be as short as one character, and does not need to be the name of the file itself or what is written here.

Add text here to appear above the [GeoGebra](#) tool.

[toollinktext](#)

Text underneath the [GeoGebra](#) tool can be here.

3. Click on the link icon (  ).
4. Select the GeoGebra file (ending in .ggb). You may need to choose a subfolder, if necessary; if you did not previously upload a file, you can use the button at the bottom to browse to a file, upload it, and then select it.
5. Save your page.
6. View your page and check the GeoGebra applet size and functionality. You will see the applet displayed and functional when you view the page, and you will see the text you typed in (to link to the tool) if you edit the page. Verify that the size of the GeoGebra tool is appropriate. If you need to adjust the size, see instructions for Custom Applet Size on an Individual Page.

## Custom GeoGebra Applet Size on an Individual Page

If you want to change the size of the GeoGebra tool(s) in a specific Moodle page, Forum post, or Quiz item, you can specify the size by adding text after the link text. If you want to change the default size, see the installation instructions.

1. Edit the page, post, or item that includes the GeoGebra tool link text.
2. At the end of the GeoGebra tool link text, type in text and values for both width and height following the three examples below. Do not put any spaces. Include text and values for both width and height, even if width or height is a default value.  
toollinktextwidth=1200height=700

```
mytool.ggbwidth=300height=600
```

```
awidth=900height=300
```

If you have not already linked to your GeoGebra (.ggb) file, follow the instructions on the previous page starting at step 2, highlighting the text. Make sure the values are part of the linked text.

3. Save your page.
4. View your page and check the GeoGebra applet size and functionality. If you load more than one applet in a single page, the size of the first tool will be the size of any subsequent applet.

NOTES (as of this writing, June 2009):

#### Blogs.

As of this writing, the filter will display GeoGebra files (.ggb) when you link in a blog using the method described above, if this capability is included in your version of Moodle (this works in Moodle 1.9.5). If you attach a GeoGebra file (.ggb) to a blog entry, the filter will cause the attached file to display and function using the default width and height values. Users can still download the file by clicking on the file icon. You can both attach and link in the same entry.

#### Forums.

The method described above should work in a forum post, and the filter should also display the file if you attach it. If you attach a GeoGebra file (.ggb) to a forum post, the filter will cause the attached file to display and function using the default width and height values. Users can still download the file by clicking on the file icon. You can both attach and link in the same post.

#### Quizzes.

The filter should work properly when you link GeoGebra files (.ggb) in some types of items, such as a Description. Also, since some quiz fields (such as multiple choice response fields) allow the use of html code but do not have a WYSIWYG editor, it is possible to insert a GeoGebra applet using HTML code (you can copy the code from a Moodle Web page linking to an applet using the process outlined previously; make sure to upload the .ggb file and include this location in the HTML code).

Example HTML code using default width and height values:

```
<a href="http://www.myWebSite.org/ ... /myFileName.ggb">toollinktext</a>
```

Example HTML code using custom width and height values:

```
<a href="http://www.myWebSite.org/ ...  
/myFileName.ggb">toollinktextwidth=500height=200</a>
```