

AGC, Magnification, and Use with Screen Readers

Contents

1. Magnification.
2. Self-Voicing.
3. Speech Engine Conflicts.
4. Starting AGC.
5. Instructions for JFW users.
6. Instructions for Window-Eyes users.
7. Entering AGC with screen reader set to sleep.

1. Magnification. AGC includes a simple magnification option. Users may change the magnification either from the "Larger" and "Smaller" items on the AGC "Options" menu or by hot keys F7 for larger and F8 for smaller. Although there are practical limits, these operations can be repeated until the screen display is as large or small as desired.

2. Self-Voicing. AGC is intended to be used visually and/or audibly. Good visual layout, particularly for the keypad calculator portion of AGC, will not work at all well with a screen reader, so we have chosen to make it self-voicing. Screen reader users need to put the screen reader to sleep when entering AGC. It is not hard to do this, and we give careful instructions below for users of both Jaws for Windows and Window-Eyes. If you use another screen reader, consult your manual or contact your screen reader manufacturer for instructions on putting your screen reader to sleep in self-voicing programs.

3. Speech Engine Conflicts. You should know that many very early versions of screen readers had serious conflicts with each other. The single most serious problem encountered by AGC beta testers was conflict between old speech engines and the Microsoft speech engine. We strongly suggest that users uninstall any old speech engines no longer in use. To our knowledge there are no conflicts between the current Microsoft speech engine and any speech engine released after Jan 1, 2000. To our knowledge there has never been a conflict between the Microsoft speech engine and the popular Eloquent Speech engine used by most current screen readers or the IBM speech engine used in Home Page Reader and other applications. However the early DEC speech engine caused computers to crash if it was installed along with any other engine.

4. Starting AGC. Start AGC by pressing CTRL-ESC or the Windows key to reach the Windows Start menu. Then TAB to Programs and press ENTER

[you may also find Programs by pressing "p". If Programs is the only thing on your Start menu starting with "p", it will select automatically - so pressing "p" is equivalent to tabbing to Programs and pressing ENTER].

After entering the Programs menu, press "a" until you select the Audio Graphing Calculator folder and press ENTER. The first item is the AGC program so you may start it by pressing ENTER again.

When the program is loaded, you will hear a bell sound. By default speech is off. You can turn speech on with ALT-s. This is a toggle so pressing ALT-s alternately turns speech off and on.

We strongly suggest you read the first part of "Getting Started" before using AGC for the first time. You need to know about the registration screen and can learn AGC most easily by following the tutorial.

5. Instructions for JFW users. In order to create and save a JFW configuration file that puts JFW to sleep in AGC, follow these instructions.

- * Start Jaws for Windows if it isn't already running.
- * Start AGC but do not start its speech.
- * Press INSERT-6 to start the Jaws for Windows configuration manager.
- * If you get a screen asking questions about Windows classes, tab to the cancel button and press ENTER
- * Press ALT-s to go to the Configuration Manager Set-options menu.
- * Arrow up to the "Advanced Options" menu item and press ENTER.
- * The first item in the Advanced Options page is "Sleep Options Enabled". Check this box by pressing the space bar.
- * TAB to the next item in Advanced Options. If the "Sleep Options Enable" box is checked, the next item in newer versions of JFW is "Sleep Mode Unload Synthesizer". If this is the second item, then check this box also by pressing the space bar. Older versions of JFW do not have this second box and do not need anything more checked to work with self-voicing programs.
- * TAB to the "OK" button and press ENTER.
- * Press ALT-TAB to return to AGC. At this time JFW is still working in AGC, and we recommend that you close AGC before you store the AGC.JCF configuration file that you have created. If you are on the AGC info/register/continue screen, TAB to continue and press Enter. Then close AGC by pressing ALT-F4.

* Focus should return to the Jaws Configuration Manager. Press CTRL-s to bring up the "Save" dialogue box. The default name is AGC.jcf. Press Enter to save the configuration file you have just created with that default file name.

* Now close the Jaws Configuration Manager.

6. Instructions for Window-Eyes users. In order to create and save a Window-Eyes set file that puts Window-Eyes to sleep in AGC, follow these instructions.

* Start Window-Eyes if it is not already running.

* Start AGC but don't start speech.

* Press CTRL-\ to access the Window-Eyes Voice Control Panel.

* Press ALT to open the Speech Control Panel menus.

* Press ENTER or down arrow to enter the Voice Control Panel File menu.

* The first item is "open". Press o or ENTER on this item.

* The first item in the open submenu is "set files". Press s or ENTER to open this item.

* You are now asked for the name of the set file to open. Type silent.000 in the edit box. Alternatively you may TAB to the combo box that is next and arrow to find silent.000 in the Window-Eyes list.

* TAB to "ok" and press ENTER. You have now loaded a set file that will put Window-Eyes to sleep in AGC if saved.

* You are still in the Window-Eyes Voice Control Panel. Press ALT and f to enter the File menu again. Press s or arrow down to "Save" and press ENTER. Again open "set files".

* Window-Eyes will give a default name for the new set file, but we suggest that you change it to agc.000 or any other unused name with extension .000. TAB to "ok" and press ENTER.

* Window-Eyes will now ask if you want the new set file to be associated with AGC. Press ENTER to select "yes".

* You have now saved a default set file and associated it with AGC. However you must exit Window-Eyes and restart in order for the set file to be properly associated with AGC. Close AGC, exit Window-Eyes and restart Window-Eyes.

* Whenever AGC is started or entered from now on, Window-Eyes will go to sleep. You should press ALT-s if you want AGC self-voicing to start.

7. Entering AGC with screen reader set to sleep. You have now created a configuration file that tells your screen reader to go to sleep whenever you enter the AGC application. Start AGC again. The screen reader should now go to sleep. Press ALT-s as soon as you hear the bell that tells you that AGC has loaded, and AGC's own voice should become active. If your copy is not yet registered, press TAB to move among the two buttons and text field to hear them voiced. Press "Continue" to enter AGC. Focus goes to the Calculator Tab Page heading, and the keypad calculator is showing on the screen. you may arrow left or right to other Tab Pages, press ALT-o for the options menu, or do any number of other things. Items are spoken when selected by any process.

You may close AGC from the File menu Exit item or by pressing ALT-F4. You may switch to another application without closeing AGC by rotating with ALT-TAB (which takes you to the last application that had focus) or by opening "Programs" on the AGC File menu to view all applications that are currently active. Select the desired application and press ENTER to move focus to that application. Your screen reader should become active again whenever you move to an application that is not self-voicing. When you return to AGC, the screen reader goes to sleep again, and the AGC self-voicing capability takes over.