

wEyes v. 1.1

## wEyes -- What is it?

"wEyes" is a Windows program that, although originally designed purely for amusement, might actually be of use to some computer users. Inspired by the famous "xEyes" program run on many UNIX-based xWindows systems, this program draws two eyes in a window; the eyes then track the movement of the mouse.

I gave the original version of this program (archived in "weyes.zip") to a friend of mine who owns a notebook-size computer with an LCD screen. It seems that whenever he ran Microsoft Windows, he had problems keeping track of the location of his mouse pointer -- LCDs are notoriously slow, and if he happened to move the mouse suddenly, he would have to scan the entire LCD screen just to locate the pointer. wEyes helped.

Since he seemed to benefit, I decided to upload the program to Compuserve and some other BBSs, to see if anyone else enjoyed it. To my surprise, that first version was much more popular than I ever thought it would be. Unfortunately, though, I had never put the original version through any kind of quality-control test. In short, the program was less than flawless.

Enter wEyes v. 1.1. This version possesses substantial enhancements over the original version, including custom colorization, elimination of minor bugs, and an all-around better interface. Enhancements are described more fully below.

Basically, writing the program was a light exercise in trigonometry. The program checks the  $\mu$  § position of the mouse pointer on a regular basis, and using slopes, arctangents, sines, and cosines, determines where the "pupils" of the eyes -- which are independent of each other -- should be.

## Enhancements

- Interface: wEyes v. 1.1 now sports two dialog boxes. The first is the traditional "About" dialog box, which displays version and other basic information. The second is the "wEyes Mission Control" dialog box, explained in more detail below. This dialog box gives the user control over colors and "pupil update rates."

In addition to being functional, these dialog boxes have a rather slick three-dimensional look. No, I'm not bragging -- the 3-D effect is due in large part to a dynamic-link library that I've incorporated into the program. The file is "three\_d.dll," and it was written by a guy named Ray Donahue. (If you are a programmer and like the look and feel of wEyes's dialog boxes, you have my recommendation to license Donahue's libraries. They are flexible and incredibly easy to implement. Ray can be reached at the following address: Ray Donahue, 365 Mather Street Unit 125, Hamden, CT 06514; or on Compuserve: 70324,1204. His libraries currently reside in the WINADV forum, New Files section, on Compuserve.) The only hitch here is that wEyes will only support VGA monitors -- as for other monitors, I cannot guarantee

compatibility.

**Colors:** wEyes v. 1.1 allows the user to define which colors he or she wants for the "rims" and "pupils" of the window's eyes. To define customized colors, activate the "Mission Control" dialog box. This is accomplished by clicking wEyes's control box (the little box in the top left-hand corner of the window). The control menu will appear. At the very bottom, you will notice two items: "About wEyes..." and "wEyes Mission Control..." Click once on "Mission Control." The Mission Control dialog box will appear.

Next, find the two group boxes named "Outer rim color" and "Pupil color," respectively. Each box contains three horizontal scrollbars. Each scrollbar controls the intensity of either the red, green, or blue color elements of your screen. Move the scrollbars, and the color appearing in the window beside the controls will change to reflect your handiwork. When satisfied, press the "OK" button. If you just can't get it right, that's alright -- just press the Cancel button and your wEyes will not have changed.

Some of you probably own a notebook or laptop with a monochrome LCD screen. This does NOT mean that you can't take advantage of the coloring capabilities included in this version. As you probably know, different people prefer different intensity settings when using LCD screens: some prefer that the screen look darker, while others can only work with a lighter-shaded screen. To the extent that your tastes differ from the next guy's, the red-and-black default colors may be difficult to see on your LCD screen. If so, the Mission Control color features can help.

**Timer interval:** wEyes checks the position of the mouse pointer at a predetermined time interval, and then readjusts the position of the pupils accordingly. In the original version of wEyes, this "pupil update rate" was 100 milliseconds by default. That parameter could be changed, however, by including a command-line parameter. The Mission Control dialog box has eliminated the need for such a mechanism. The interval can now be adjusted in much the same way as the colors of the eyes. When the scrollbar in the "Timer interval" group box is adjusted, the number appearing in the edit box to the right of the scrollbar will be similarly adjusted. If you want to enter a particular number in the edit box, however, you need not use the scrollbar -- just click your mouse on the edit box (or "tab over"), and type in the desired number.

If you are running a number of large applications concurrently, you may want to slow the timer down a bit, so as not to burden the other programs. On the other hand, unless you have a very fast machine, intervals of less than 50 milliseconds will probably not produce any additional speed benefits; there will always be some lower limit for a given machine.

**Initialization file:** The first time that you close wEyes (or end a Windows session without closing wEyes first), the program will create an initialization file in your WINDOWS directory. The file is called, appropriately enough, "weyes.ini." The next time that you run wEyes, the program will "remember" the colors that you last specified, and will automatically use them in your current session. In addition, unlike the original version, wEyes v. 1.1 will store the window's size and position. So rather than having to move and stretch the window every time you start wEyes, the window will automatically pop up exactly where you want it.

**Minimization:** As with the original version of wEyes, wEyes v. 1.1 still works when minimized. So if you need room on your display, wEyes won't take up any more room than,

say, the Windows Clock program.

**Bugs:** Fallible? Me? I encountered one minor, although annoying, bug in the original version of wEyes. It seems that, if I stretched the window far enough across the screen, I would get an unrecoverable application error. That problem has since been put to bed.

Also, the original version had no mechanism for aborting the program in the unlikely event that a timer could not be created. Should Windows already have the maximum number of timers running, wEyes v. 1.1 will not run, but will display a message informing the user of the problem.

This version appears to work pretty well. Nonetheless, because I'm not charging money for this program, it's difficult to justify putting hours and hours into crash-testing the thing. Thus, I'm relying on user input. If you find any bugs in this version of wEyes, please drop me a line at the address below. Or you can send me e-mail at Compuserve. My address there is 70724,3347 (UNIX systems: "70724.3347@compuserve.com").

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## **Loading instructions:**

To load wEyes onto your Windows system, first copy "weyes.exe," "weyes.txt," and "three\_d.dll" to the directory of your choice. Next, enter Windows's Program Manager and select a program group. Then select "File," "New," "Program Item" from the menu bar (in that order). In the "Command Line" edit box, type: "<Drive>:\<Pathname>\WEYES.EXE", where <Drive> and <Pathname> are the drive and directory into which you have installed the above program files. Choose "OK." When you want to invoke the program, simply double-click the wEyes icon.

To auto-load the program upon starting a Windows session, open your "win.ini" file (located in your WINDOWS directory) by using the Windows Notepad program. Find the line labeled "[windows]"; then look for the "load=" statement. Beside that statement, type "<Drive>:\<Pathname>\WEYES.EXE", again where <Drive> and <Pathname> are the drive and directory into which you have installed the program files. The next time that you invoke windows, wEyes will appear as a minimized window at the bottom of your screen. To run wEyes as a regular (non-minimized) window, perform these same steps, except rather than looking for the "load=" statement, look for the "run=" statement.

This program is written mostly for fun. If you do enjoy it and would like to find out about other products and services provided by OutLook/PC Business System Design, drop us a line at:

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Thanks.

-- Rob Carty, President  
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