

GNUPLOT VERSION 4.4.3

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Version 4.4.3 is an incremental update to the current official release.

A synopsis of changes since the version 4.4.2 is given below and in the NEWS file. Further information is given in ChangeLog.

New features, changes and fixes in gnuplot version 4.4.3

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- * NEW Implement pan and zoom via mouse wheel.
- * NEW set key maxcolumns N maxrows M
- * NEW value("varname") returns the value of the named variable
- * NEW encoding cp1251 - 8-bit Cyrillic
- * CHANGE backport emf terminal driver from version 4.5
- * FIX better estimation of latex string lengths
- * FIX colorbar representation of discrete color palettes is pixel accurate
- * FIX NaN initialization and tests working on more (all?) platforms
- * FIX configuration script tests for readline+ncurses
- * FIX prevent out-of-range boxes from creating degenerate ghosts on the border
- * FIX missing alpha channel flag for pdfcairo terminal
- * FIX font initialization in windows terminal

NOTE TO PACKAGERS AND TESTERS

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We strongly encourage you to build, test, and package the new cairo-based terminals. These are pngcairo and pdfcairo for output to file, and wxt as the default interactive terminal.

This introduces dependencies on

- libwxgtk2
- libpangocairo
- libpango
- libcairo

Of course the terminals (output modes) used by previous gnuplot versions are also still available, including png output based on libgd and interactive output using X11.

Demo plots illustrating these and other features are online at

<http://gnuplot.sourceforge.net/demo/>

You can download a source tarball for gnuplot version 4.4.3 from the gnuplot development site on SourceForge.

http://sourceforge.net/project/showfiles.php?group_id=2055

OTHER NOTES

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Installation

Installation instructions are available in the source itself; the short version for linux/unix-like systems is to unpack the tarball and then build it:

```

        cd gnuplot-4.4.3 ; ./configure ; make
test it:
        make check
install it:
        make install

```

Pay careful attention to the output of the `./configure` script. It may indicate that some output drivers have been omitted because the necessary support libraries were not found. In general you need to have previously installed the `"*-devel-"` versions of these libraries.

Known issues

- OSX: The wxt terminal does not work. Alpha-channel support in aquaterm requires aquaterm version 1.0.1, available from <http://aquaterm.sourceforge.net>. Aquaterm itself may not work on 64-bit systems.

- External support library libgd version 2.0.36 introduces a new method of font selection using the fontconfig utility. However, it does not work properly without a patch to the upstream libgd source that has not yet made it into packaged versions. Here it is:

```

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
-- gd-2.0.36/gdft.c      2008-03-09 16:05:52.000000000 -0700
+++ gd-2.0.36-mod/gdft.c      2009-05-20 20:22:13.000000000 -0700
@@ -1661,7 +1661,7 @@ static char * font_path(char **fontpath,
    BGD_DECLARE(int) gdFTUseFontConfig(int flag)
    {
    #ifdef HAVE_LIBFONTCONFIG
-       fontConfigFlag = 1;
+       fontConfigFlag = flag;
        return 1;
    #else
        return 0;
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

- The MS Windows terminal device sometimes draws with a dashed line when it should draw with a solid line. (Tracker item 1952364). Also it doesn't yet fully support alpha-channel output.

Support

Please report all bugs and installation problems to the bug tracker on SourceForge:

http://sourceforge.net/tracker/?group_id=2055&atid=102055

There is also an active gnuplot discussion forum on usenet group

`comp.graphics.apps.gnuplot`

Development

Gnuplot development is quite active. The development branch on SourceForge contains preliminary implementations of many new features. The development branch is currently identified as version 4.5.

Feedback and contributions of code are very welcome.