

GNUPLOT VERSION 4.4.4

=====

Version 4.4.4 is an incremental update to the current official release.

A synopsis of changes since the previous patchlevel (version 4.4.3) is given below and in the NEWS file. Detailed information is in ChangeLog.

New features, changes and fixes in gnuplot version 4.4.4

=====

- * NEW boxxyerrors plot style now allows variable color
- * NEW splot with pm3d now allows variable rgb color
- * NEW "nonuniform matrix" indicates ascii data with explicit x, y
- * CHANGE columnhead(N) is a string-valued function, not a keyword
- * CHANGE Demarcate plots in svg output using <g id="Plot_#"><title>...
- * CHANGE xticlabeled() works for binary data files as well as ascii
- * CHANGE "set key maxrows" now applies to 3D plots as well as 2D
- * CHANGE rewrite installation path rules for TeX files
- * FIX wxt terminal should now work on at least some flavors of OSX
- * FIX incorrect space allowed for outside left key box
- * FIX buffer overflow from enhanced text timefmt tic labels
- * FIX correction for offset in epochs when reading in time format "%s"
- * FIX discontinuity in defined palette limited by maxcolors
- * FIX initialization of svg pattern-fill definitions
- * FIX positioning of histogram bars when some data entries are missing
- * FIX emf terminal can handle UTF-8 encoding
- * FIX User-specified axis tick labels override auto labels in 3D just as in 2D
- * FIX `plot with labels` failed to skip labels with UNDEFINED coords
- * FIX NaN (not a number) implementation for Windows build
- * FIX work-around for poor scaling in pdfcairo pattern fill
- * FIX segfault if mismatch between palette sizes of successive terminals

NOTE TO PACKAGERS AND TESTERS

=====

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. wxt should (at last!) work on OSX also.

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

=====

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-4.4.4 ; ./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: 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 all 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.