

Todolist for PGFPlots

1.15

Christian Feuersnger

June 5, 2017

Contents

1	Release TODO	1
2	Tests	6
3	Documentation todo	6
4	Bugs/Features in PGF/TikZ	7
5	Bugs in PGFPlots	72
6	Feature Proposals PGFPlots	75

1 Release TODO

The following steps have to be done for every release:

- run tests against pgf CVS
- run tests against latest pgf stable
- finish manual
 - update the description for the `compat` key to document changes introduced by the most recent compatibility level
 - disable `\todosp` in `\pgfplots.preamble.tex`
 - fix warnings
 - browse through it
 - the example of `colorbar horizontal` uses “rand” – and that produced unexpected output once without clue why. Observe it.
- ensure that the “compile” matrix (below this list) is complete for pgf CVS and the latest pgf Stable
- run context tests (basically compile and browse-through. There are no assertions.)

- run against pgf CVS
- run against latest pgf stable
- update ChangeLog with "RELEASED VERSION XXX" and update README
- assign git tag for new version
- run `scripts/pgfplots/pgfplotsrevisionfile.sh` to assign the package versions based on tag
(done automatically when compiling the manual)
- recompile manual (to pick up the correct version)
- run primitive example files
- adjust the release makefile to get correct file names
- assemble TDS.zip and CTAN.zip (using the release makefile)
 - `make -f pgfplots/scripts/pgfplots/Makefile.pgfplots_release_sourceforge`
this creates the release files
 - make sure the archives do not contain wrong files.
- upload to CTAN.

```

Submitted to host
    dante.ctan.org
Your name and email
    Christian Feuersaenger <cfeuersaenger@users.sourceforge.net>
Filename
    pgfplots_1.6.1.ctan.flatdir.zip
Version number
    1.6.1
Location on CTAN
    /graphics/pgf/contrib/pgfplots/
Summary description
    pgfplots - Create normal/logarithmic plots in two and three dimensions for LaTeX.
License type
    gpl
Announcement text
    ...
Notes to maintainers
    As requested, I created a flat directory structure containing all files
    (i.e.\@ it contains latex style files, context package files, plain tex
    include files, generic implementation files, and LUA code all in the same
    directory). I will also upload a TDS zip file to
    /install/graphics/pgf/contrib/pgfplots.
    Thanks for maintaining CTAN!

```

Attention: the announcement text must not be too long. In particular, README extracts are too long.

- release to sourceforge.
 - Make sure to update the README at top-level.
 - make sure to mark the new TDS as “default download for all platforms”
- upload to sourceforge web space (using the release makefile)
 - `make -f pgfplots/scripts/pgfplots/Makefile.pgfplots_release_sourceforge upload` this copies the manuals
 - change `Makefile.pgfplots_release_sourceforge` back to unstable
 - `make -f pgfplots/scripts/pgfplots/Makefile.pgfplots_release_sourceforge upload` this updates the unstable
 - if necessary, update `scp://cfeuersaenger,pgfplots@web.sourceforge.net/htdocs/index.php`
- send announcement to `pgfplots-features@lists.sourceforge.net`
- use `git push origin --tags` or `git push origin 1.13` to push the tag(s)

2 Tests

last test verifications:

	pgf CVS	pgf 3.0.1	pgf 3.0.0	pgf 2.10	pgf 2.00	pgf 2.00+co
regressiontests	for 1.15	for 1.15	for 1.12.1	for 1.12*	for 1.8 (7% fail)	2009-12-30
unittests	for 1.15	for 1.13	for 1.12	for 1.12		
manual	for 1.15	for 1.14	for 1.12	for 1.9	for 1.5	
pgfplotstable.pdf	for 1.15	for 1.13	for 1.12	for 1.9	for 1.5	
example latex	for 1.15			for 1.9	2009-12-30	
example context(mkII)	for 1.15			for 1.9	2009-12-30	
example context(mkIV)	for 1.15		for 1.12.1	for 1.9	2009-12-30	
example plain tex	for 1.15			for 1.9	2009-12-30	
tests context (mkII)	for 1.15		for 1.12	for 1.9		
tests context (mkIV)	for 1.15		for 1.12*			

Note that context MK IV needs the pgfplots installed in `~/texmf` (doesn't respect environment variables)

context MK IV may need a special environment like `. ~/context/tex/setuptex`

3 Documentation todo

`pgfplotstodo.tex:181` **Documentation Todo** [open, Priority 5, Epic “]
document `\boldmath $...$` for `pgfplotstable`

`pgfplotstodo.tex:185` **Documentation Todo** [open, Priority 5, Epic “]
scatter `rgb` is not documented

<code>pgfplotstodo.tex:202</code>	Documentation Todo [open, Priority 5, Epic ‘’] Document standalone vs. external
<code>pgfplotstodo.tex:207</code>	Documentation Todo [open, Priority 5, Epic ‘’] The new API for stacked plots + nodes near coords is missing, among it the
<code>pgfplotstodo.tex:212</code>	Documentation Todo [open, Priority 5, Epic ‘’] document installation requirements when using luatex (LUAINPUTS should
<code>pgfplotstodo.tex:220</code>	Documentation Todo [open, Priority 5, Epic ‘’] bei dem Bsp-Tex zu pgfplotstable scheint eine Zeile im Tex-File zu fehlen:
<code>pgfplotstodo.tex:226</code>	Documentation Todo [open, Priority 5, Epic ‘’] try a bar plot with individually shaded bars
<code>pgfplotstodo.tex:230</code>	Documentation Todo [open, Priority 5, Epic ‘’] contour: a change label dist
<code>pgfplotstodo.tex:234</code>	Documentation Todo [open, Priority 5, Epic ‘’] document ‘execute at begin axis’ and its new variants
<code>pgfplotstodo.tex:238</code>	Documentation Todo [open, Priority 5, Epic ‘’] document how to plot against the coordindex
<code>pgfplotstodo.tex:243</code>	Documentation Todo [open, Priority 5, Epic ‘’] document how to identify the source of ”dimension too large” errors:
<code>pgfplotstodo.tex:249</code>	Documentation Todo [open, Priority 5, Epic ‘’] It seems as if the AMS command <code>\text{\ref{ref:to:a:plot}}</code> \$
<code>pgfplotstodo.tex:255</code>	Documentation Todo [open, Priority 5, Epic ‘’] clickable lib:

4 Bugs/Features in PGF/TikZ

<code>pgfplotstodo.tex:717</code>	pgfbug [open, Priority 5, Epic ‘’] external bug:
<code>pgfplotstodo.tex:727</code>	pgfbug [open, Priority 5, Epic ‘’] external does not work together with tcolorbox
<code>pgfplotstodo.tex:746</code>	pgfbug [open, Priority 5, Epic ‘’] topath in plots is broken since PGF 3.0.0: the following should be a single
<code>pgfplotstodo.tex:755</code>	pgfbug [open, Priority 5, Epic ‘’] external lib does not properly recompile unresolved references in external
<code>pgfplotstodo.tex:765</code>	pgfbug [open, Priority 5, Epic ‘’] Beamer + pgf: the default template introduces a white line on top.
<code>pgfplotstodo.tex:791</code>	pgfbug [open, Priority 5, Epic ‘’] When using externalize function together with a transform canvas, the
<code>pgfplotstodo.tex:848</code>	pgfbug [open, Priority 5, Epic ‘’] pgf users Vol 50 issue 6:
<code>pgfplotstodo.tex:857</code>	pgfbug [open, Priority 5, Epic ‘’] consider a matrix style which applies only to the outer matrix node style
<code>pgfplotstodo.tex:861</code>	pgfbug [open, Priority 5, Epic ‘’] make assignments to <code>\pgf@x</code> and <code>\pgf@y</code> always <code>\global</code>
<code>pgfplotstodo.tex:865</code>	pgfbug [open, Priority 5, Epic ‘’] implement <code>\pgfmathfloattocount</code>

`pgfplotstodo.tex:870` **pgfbug** [open, Priority 5, Epic ‘’]
active ‘|’ characters result in compilation bugs

`pgfplotstodo.tex:874` **pgfbug** [open, Priority 5, Epic ‘’]
’text height=1em’ realisieren mit [node font units]1em

`pgfplotstodo.tex:883` **pgfbug** [open, Priority 5, Epic ‘’]
the fpu can’t be used inside of paths. That should be fixed.

5 Bugs in PGFPlots

`pgfplotstodo.tex:1590` **Bug** [open, Priority 10, Epic ‘fillbetween’]
fill between fails to work with PGF 2.10

`pgfplotstodo.tex:1163` **Bug** [open, Priority 5, Epic ‘units’]
after using a preset key (milli) with x SI prefix, Next, I want to switch

`pgfplotstodo.tex:1169` **Bug** [open, Priority 5, Epic ‘polar’]
polar plots do not show all tick lines if only parts of the range is

`pgfplotstodo.tex:1215` **Bug** [open, Priority 5, Epic ‘’]
regression in 1.14: point meta number format is in internal FPU

`pgfplotstodo.tex:1224` **Bug** [open, Priority 5, Epic ‘’]
it seems as if the layer configuration does not really work:

`pgfplotstodo.tex:1235` **Bug** [open, Priority 5, Epic ‘fillbetween’]
fillbetween / intersection lib bug:

`pgfplotstodo.tex:1250` **Bug** [open, Priority 5, Epic ‘’]
external bug: the external lib must keep pgfpictureid, otherwise it mixes

<code>pgfplotstodo.tex:1257</code>	Bug [open, Priority 5, Epic “] fpu is unable to compute <code>\exp(-4.08893e7)</code> (runs into overflow)
<code>pgfplotstodo.tex:1266</code>	Bug [open, Priority 5, Epic “] document
<code>pgfplotstodo.tex:1271</code>	Bug [open, Priority 5, Epic “] external lib screws up prefix option?
<code>pgfplotstodo.tex:1276</code>	Bug [open, Priority 5, Epic “] pgfmathparse no longer compatible with heightof etc. of calc package?
<code>pgfplotstodo.tex:1302</code>	Bug [open, Priority 5, Epic “] colormap access=piecewise constant can produce visual artifacts:
<code>pgfplotstodo.tex:1306</code>	Bug [open, Priority 5, Epic “] axis description styles contain “on layer”, but they ignore it!
<code>pgfplotstodo.tex:1322</code>	Bug [open, Priority 5, Epic “] syntax highlighting issue:
<code>pgfplotstodo.tex:1346</code>	Bug [open, Priority 5, Epic “] tikz bug: using <code>-- cycle</code> exchanges start/end positions of nodes
<code>pgfplotstodo.tex:1352</code>	Bug [open, Priority 5, Epic “z buffer”] z buffer=sort appears to cause wrong results – must use min(depths)
<code>pgfplotstodo.tex:1360</code>	Bug [open, Priority 5, Epic “] pgfplotstable: dec sep align does not work if someone uses custom
<code>pgfplotstodo.tex:1365</code>	Bug [open, Priority 5, Epic “] add sanity check to lua backend before sending mapped coordinates to TeX:

<code>pgfplotstodo.tex:1390</code>	Bug [open, Priority 5, Epic ‘’] Using <code>\thisrow{col}</code> merely expands to the value, but does not
<code>pgfplotstodo.tex:1396</code>	Bug [open, Priority 5, Epic ‘precision’] inaccuracy when determining minor ticks?
<code>pgfplotstodo.tex:1413</code>	Bug [open, Priority 5, Epic ‘precision’] Tick labels suffer from inexact arithmetics in Tikz foreach:
<code>pgfplotstodo.tex:1439</code>	Bug [open, Priority 5, Epic ‘precision’] . . . and rounding:
<code>pgfplotstodo.tex:1447</code>	Bug [open, Priority 5, Epic ‘v2’] consider using <code>unbounded coords=jump</code> as default for mesh/surface
<code>pgfplotstodo.tex:1462</code>	Bug [open, Priority 5, Epic ‘’] fpu bug:
<code>pgfplotstodo.tex:1468</code>	Bug [open, Priority 5, Epic ‘z buffer’] view <code>dir=reverse</code> appears to result in a wrong 3d view directions and screws
<code>pgfplotstodo.tex:1476</code>	Bug [open, Priority 5, Epic ‘’] 3d axes and <code>y dir = reverse</code> seems to corrupt the z ordering, see
<code>pgfplotstodo.tex:1506</code>	Bug [open, Priority 5, Epic ‘smithchart’] smithchart admittance graph has wrong sign
<code>pgfplotstodo.tex:1532</code>	Bug [open, Priority 5, Epic ‘smithchart’] smithcharts: -¿ Ab einer Gre von 14cm funktionieren yticklabel around
<code>pgfplotstodo.tex:1648</code>	Bug [open, Priority 5, Epic ‘smithchart’] substitute axis cs fails with smithcharts:

<code>pgfplotstodo.tex:1681</code>	Bug [open, Priority 5, Epic ‘substitute axis cs’] substitute axis cs fails to work with <code>++ (0,1cm)</code> (probably for
<code>pgfplotstodo.tex:1787</code>	Bug [open, Priority 5, Epic ‘fillbetween’] error bars + fill between do not work together (per email of Jerzy Wrobel
<code>pgfplotstodo.tex:1792</code>	Bug [open, Priority 5, Epic ‘’] spurious shifts/displacement when using group plots and discontinuities:
<code>pgfplotstodo.tex:1798</code>	Bug [open, Priority 5, Epic ‘’] get rid of this boolean “ <code>apply@datatrafo@</code> ”. It is a synonym for “is
<code>pgfplotstodo.tex:1828</code>	Bug [open, Priority 5, Epic ‘’] REGRESSION:
<code>pgfplotstodo.tex:1876</code>	Bug [open, Priority 5, Epic ‘dateplot’] combination of dateplot and x tick label as interval does not work well
<code>pgfplotstodo.tex:1881</code>	Bug [open, Priority 5, Epic ‘’] xtick key still relies on PGF’s basic level foreach – and the numbers
<code>pgfplotstodo.tex:1899</code>	Bug [open, Priority 5, Epic ‘fillbetween’] fillbetween + softclip: soft clip should return the input path if the input
<code>pgfplotstodo.tex:1954</code>	Bug [open, Priority 5, Epic ‘’] extra ticks produce unwanted shifts of labels
<code>pgfplotstodo.tex:1959</code>	Bug [open, Priority 5, Epic ‘’] composed plot handlers (hist, boxplot, contour) need access to coordinate
<code>pgfplotstodo.tex:1978</code>	Bug [open, Priority 5, Epic ‘’] pgfplots fails to handle very small number ranges on logarithmic plots

<code>pgfplotstodo.tex:1988</code>	Bug [open, Priority 5, Epic ‘nodes near coords’] ybar interval does not work well with nodes near coords
<code>pgfplotstodo.tex:1997</code>	Bug [open, Priority 5, Epic ‘nodes near coords’] ybar interval + nodes near coords: nodes are displaced.
<code>pgfplotstodo.tex:2008</code>	Bug [open, Priority 5, Epic ‘’] Coordinate filtering + error bars do not work.
<code>pgfplotstodo.tex:2013</code>	Bug [open, Priority 5, Epic ‘’] <code> legend to name</code> — appears to be broken if the legend is empty (empty
<code>pgfplotstodo.tex:2017</code>	Bug [open, Priority 5, Epic ‘’] <code>cube/size x</code> has no effect if used in a 2d axis
<code>pgfplotstodo.tex:2162</code>	Bug [open, Priority 5, Epic ‘’] copy paste from the manual does not copy empty lines – which is quite bad
<code>pgfplotstodo.tex:2167</code>	Bug [open, Priority 5, Epic ‘fillbetween’] <code>tikz intersections</code> : the “store in macro” methods do not use global
<code>pgfplotstodo.tex:2173</code>	Bug [open, Priority 5, Epic ‘fillbetween’] fill between:
<code>pgfplotstodo.tex:2214</code>	Bug [open, Priority 5, Epic ‘fillbetween’] fill between / intersections lib bug: spurious intersections
<code>pgfplotstodo.tex:2219</code>	Bug [open, Priority 5, Epic ‘’] <code>pgfplotstable</code> appears to have problems with <code>#</code> in col names, compare
<code>pgfplotstodo.tex:2354</code>	Bug [open, Priority 5, Epic ‘’] <code> ytick=data </code> does not work together with stacked plots because, by

<code>pgfplotstodo.tex:2375</code>	Bug [open, Priority 5, Epic “] ytick=data combined with minor y tick num does not work as expected: minor
<code>pgfplotstodo.tex:2383</code>	Bug [open, Priority 5, Epic “] no markers: it appears to be impossible to switch off markers, only for
<code>pgfplotstodo.tex:2425</code>	Bug [open, Priority 5, Epic ‘boxplot’] box plots with draw direction=y and xtick=data fail to provide the correct
<code>pgfplotstodo.tex:2434</code>	Bug [open, Priority 5, Epic “] <code> disablelogfilter,ymax=1e-6, ymode=log—</code> fails. Apparently, the
<code>pgfplotstodo.tex:2446</code>	Bug [open, Priority 5, Epic “] <code> \closedcycle </code> does not work together with jumps / interrupted plots
<code>pgfplotstodo.tex:2470</code>	Bug [open, Priority 5, Epic “] auto tick label assignment can sometimes produce strange results:
<code>pgfplotstodo.tex:2487</code>	Bug [open, Priority 5, Epic “] the 3d clip path is sometimes bad: perhaps it should be the bounding box
<code>pgfplotstodo.tex:2503</code>	Bug [open, Priority 5, Epic “] One cannot manually load a table inside of a pgfplots axis if it contains
<code>pgfplotstodo.tex:2507</code>	Bug [open, Priority 5, Epic “] <code> ybarlegend—</code> does not contain <code>ybar</code> (sourceforge 3482770)
<code>pgfplotstodo.tex:2512</code>	Bug [open, Priority 5, Epic “] <code> refstyle </code> does only include partial information of the reference
<code>pgfplotstodo.tex:2520</code>	Bug [open, Priority 5, Epic “] Using square brackets as first char inside of <code>\legend</code> leads to a

<code>pgfplotstodo.tex:2528</code>	Bug [open, Priority 5, Epic “] Adding <code>error bars/.cd</code> to <code>\addplot</code> options causes the
<code>pgfplotstodo.tex:2532</code>	Bug [open, Priority 5, Epic ‘quiver’] quiver plots: the clip path does not respect arrow paths
<code>pgfplotstodo.tex:2560</code>	Bug [open, Priority 5, Epic “] Alignment bug: axis x line=middle combined with a yshift shifts the xlabel
<code>pgfplotstodo.tex:2567</code>	Bug [open, Priority 5, Epic “] cannot provide clip path usage in pgfplots commands because of the nested
<code>pgfplotstodo.tex:2572</code>	Bug [open, Priority 5, Epic “] <code> \pgfplotsforeachungrouped </code> cannot be combined with three or more
<code>pgfplotstodo.tex:2630</code>	Bug [open, Priority 5, Epic “] the below example of a latex file gives the following error upon the 2nd
<code>pgfplotstodo.tex:2723</code>	Bug [open, Priority 5, Epic “] <code>groupplots + extra braces or foreach</code> are incompatible.
<code>pgfplotstodo.tex:2727</code>	Bug [open, Priority 5, Epic “] <code>numplotsper type</code> and <code>forget plot</code> and <code>ybar interval</code> yields errors.
<code>pgfplotstodo.tex:2733</code>	Bug [open, Priority 5, Epic “] expression plotting and empty ‘y’ results in errors. Perhaps it would be
<code>pgfplotstodo.tex:2764</code>	Bug [open, Priority 5, Epic “] <code>/pgfplots/samples at</code> and <code>/tikz/samples at</code> work on the same axe. Tantau says
<code>pgfplotstodo.tex:2773</code>	Bug [open, Priority 5, Epic ‘groupplots’] <code>groupplots</code> : mixing 2d/3d in one <code>groupplot</code> doesn’t reset ‘ <code>zmin,zmax</code> ’?

<code>pgfplotstodo.tex:2777</code>	Bug [open, Priority 5, Epic “] 3D axes: it is difficult to get an 1:1 correspondence to tikz.
<code>pgfplotstodo.tex:2785</code>	Bug [open, Priority 5, Epic “] 3D axis: provide support for manual axis configuration,
<code>pgfplotstodo.tex:2790</code>	Bug [open, Priority 5, Epic “] plot graphics: <code>\ref</code> legend doesn’t work properly
<code>pgfplotstodo.tex:2794</code>	Bug [open, Priority 5, Epic ‘ternary’] ternary axes: the ‘marker clipping’ doesn’t work (naturally)
<code>pgfplotstodo.tex:2817</code>	Bug [open, Priority 5, Epic “] contour:
<code>pgfplotstodo.tex:2828</code>	Bug [open, Priority 5, Epic “] dimension too large sanity checking: TeX uses the maximum value instead.
<code>pgfplotstodo.tex:2853</code>	Bug [open, Priority 5, Epic ‘quiver’] the quiver/scale arrows thing might need an “auto” option. If I don’t add
<code>pgfplotstodo.tex:2858</code>	Bug [open, Priority 5, Epic “] ‘1.23456e4;’ in a log plot resulted in hard-to-read error messages.
<code>pgfplotstodo.tex:2879</code>	Bug [open, Priority 5, Epic ‘Usability’] avoid dimension too large errors which occur due to a data range
<code>pgfplotstodo.tex:2886</code>	Bug [open, Priority 5, Epic “] <code> yticklabels={<list>},extra y ticks=...</code> — is incompatible since the
<code>pgfplotstodo.tex:2892</code>	Bug [open, Priority 5, Epic “] The ‘text depth’ in legend entries is incompatible with ‘text width’. The

<code>pgfplotstodo.tex:2902</code>	Bug [open, Priority 5, Epic “] one can’t provide ‘disable log filter’ to <code>addplot</code> (but it might be
<code>pgfplotstodo.tex:2906</code>	Bug [open, Priority 5, Epic “] FPU: <code>atan</code> doesn’t check for unbounded inputs.
<code>pgfplotstodo.tex:2911</code>	Bug [open, Priority 5, Epic “] unbounded inputs: improve warning messages: they should not contain low
<code>pgfplotstodo.tex:2919</code>	Bug [open, Priority 5, Epic “] the user interface to set ‘ <code>tickwidth=0</code> ’ for a SINGLE axis is not very good:
<code>pgfplotstodo.tex:2928</code>	Bug [open, Priority 5, Epic “] I have seen that ‘plot table’ with very large files can produce pool size
<code>pgfplotstodo.tex:2933</code>	Bug [open, Priority 5, Epic “] providing <code>zmin/xmax</code> to an axis activates 3D mode, ok – but lower
<code>pgfplotstodo.tex:2937</code>	Bug [open, Priority 5, Epic “] one can’t provide ‘ <code>scale</code> ’ as argument to a (3d) axis
<code>pgfplotstodo.tex:2943</code>	Bug [open, Priority 5, Epic “] it may still happen that log-axes get only <code>*one*</code> tick label (in my case
<code>pgfplotstodo.tex:2947</code>	Bug [open, Priority 5, Epic “] log samples in plot expression for 3D plots
<code>pgfplotstodo.tex:2951</code>	Bug [open, Priority 5, Epic ‘gnuplot’] different log bases and gnuplot
<code>pgfplotstodo.tex:2963</code>	Bug [open, Priority 5, Epic “] I tried placing a named coordinate inside one axis and using it in another.

<code>pgfplotstodo.tex:2970</code>	Bug [open, Priority 5, Epic “] plot coordinates doesn’t check too well if
<code>pgfplotstodo.tex:2975</code>	Bug [open, Priority 5, Epic “] the compat things are not yet complete: I wanted to check when it is really
<code>pgfplotstodo.tex:2981</code>	Bug [open, Priority 5, Epic ‘nodes near coords’] the nodes near coords feature produces unexpected results when used
<code>pgfplotstodo.tex:2985</code>	Bug [open, Priority 5, Epic “] the ybar style won’t be set inside of <code>\label{}</code>
<code>pgfplotstodo.tex:2989</code>	Bug [open, Priority 5, Epic “] axis equal for semilog plots is not correct (?)
<code>pgfplotstodo.tex:2995</code>	Bug [open, Priority 5, Epic “] backwards compatibility problem:
<code>pgfplotstodo.tex:2999</code>	Bug [open, Priority 5, Epic “] BUG: in empty axes, <code>'xtick=\empty'</code> is ignored.
<code>pgfplotstodo.tex:3007</code>	Bug [open, Priority 5, Epic “] The automatic tick labeling sometimes produces inconsistent or confusing
<code>pgfplotstodo.tex:3013</code>	Bug [open, Priority 5, Epic “] 3D: error bars and stacked plots need to be updated.
<code>pgfplotstodo.tex:3048</code>	Bug [open, Priority 5, Epic “] addplot3 vs addplot:
<code>pgfplotstodo.tex:2268</code>	Bug [open, Priority 4, Epic “] adding a post action with decoration to a pgfplots style results in an

<code>pgfplotstodo.tex:1887</code>	Bug [open, Priority 3, Epic “] TikZ wastes time during its point evaluations (i.e. expressions of sorts
<code>pgfplotstodo.tex:1963</code>	Bug [open, Priority 3, Epic “] contour plot handler does not allow ‘name path’.
<code>pgfplotstodo.tex:2331</code>	Bug [open, Priority 3, Epic “] Usability issues around histograms:
<code>pgfplotstodo.tex:2420</code>	Bug [open, Priority 3, Epic ‘v2’] units and square brackets
<code>pgfplotstodo.tex:2438</code>	Bug [open, Priority 3, Epic ‘gnuplot’] gnuplot interface: unbounded coords are not recognized as such (type=u).
<code>pgfplotstodo.tex:2480</code>	Bug [open, Priority 3, Epic “] x tick scale label for style <code>tiny</code> has an unsuitable shift
<code>pgfplotstodo.tex:3060</code>	Bug [open, Priority 3, Epic “] 3D case : tick/grid lines are on top of the axis lines. This leads to
<code>pgfplotstodo.tex:1627</code>	Bug [open, Priority 2, Epic ‘lua’] The following fails to compile with lualatex (due to the double quotes
<code>pgfplotstodo.tex:2254</code>	Bug [open, Priority 2, Epic “] context + color mix produces spurious shifts
<code>pgfplotstodo.tex:2263</code>	Bug [open, Priority 2, Epic “] Adding user decorations to axis lines might interfere with the
<code>pgfplotstodo.tex:2337</code>	Bug [open, Priority 2, Epic “] Loading a pgfplots library via <code>\usetikzlibrary{pgfplots...}</code> fails

<code>pgfplotstodo.tex:2370</code>	Bug [open, Priority 2, Epic “] The combination of 3d unit vectors and <code>scale mode=stretch to fill</code> is
<code>pgfplotstodo.tex:2429</code>	Bug [open, Priority 2, Epic ‘boxplot’] boxplots: predefined legend entries need to be improved
<code>pgfplotstodo.tex:2442</code>	Bug [open, Priority 2, Epic ‘gnuplot’] gnuplot interface + raw gnuplot does not handle log scale properly (?)
<code>pgfplotstodo.tex:2476</code>	Bug [open, Priority 2, Epic ‘layers’] new layered graphics stuff: the style changes of the layer config are read
<code>pgfplotstodo.tex:2637</code>	Bug [open, Priority 2, Epic “] #3213889 hyperref boxes are in wrong position for vertical labels
<code>pgfplotstodo.tex:2769</code>	Bug [open, Priority 2, Epic ‘external’] potential incompatibility: clickable and external. The clickable lib writes
<code>pgfplotstodo.tex:2823</code>	Bug [open, Priority 2, Epic “] OK : ‘every node near coord/.append style=scale=0.7’
<code>pgfplotstodo.tex:2834</code>	Bug [open, Priority 2, Epic “] view=090 and enlargelimits=auto is not always satisfactory: it
<code>pgfplotstodo.tex:2844</code>	Bug [open, Priority 2, Epic “] contour external doesn’t handle explicitly provided matrix data (mesh/rows
<code>pgfplotstodo.tex:2848</code>	Bug [open, Priority 2, Epic “] contour external doesn’t handle the ordering flag correctly.
<code>pgfplotstodo.tex:2863</code>	Bug [open, Priority 2, Epic “] the title style for ‘footnotesize’ is not as I want it to: it doesn’t

<code>pgfplotstodo.tex:3019</code>	Bug [open, Priority 2, Epic “] interp shader is displayed transparently in evince
<code>pgfplotstodo.tex:1130</code>	Bug [open, Priority 1, Epic “] The <code>mark list</code> produces a lot of
<code>pgfplotstodo.tex:1834</code>	Bug [open, Priority 1, Epic “] the interrupt bounding box feature should still update the data bounding
<code>pgfplotstodo.tex:1968</code>	Bug [open, Priority 1, Epic “] contour plot handler does not allow to specify draw and fill – which might
<code>pgfplotstodo.tex:2348</code>	Bug [open, Priority 1, Epic “] <code> \usepackage[gray]{xcolor}</code> does not seem to work as good as for
<code>pgfplotstodo.tex:2491</code>	Bug [open, Priority 1, Epic “] Internal coordmath framework: it is not used everywhere
<code>pgfplotstodo.tex:2498</code>	Bug [open, Priority 1, Epic “] <code> \lognumber</code> format code— is a global variable and cannot be set for
<code>pgfplotstodo.tex:2659</code>	Bug [open, Priority 1, Epic “] CRASH:
<code>pgfplotstodo.tex:2707</code>	Bug [open, Priority 1, Epic “] Using 0 in pgfplots coordinate systems does not necessarily mean “no
<code>pgfplotstodo.tex:2713</code>	Bug [open, Priority 1, Epic “] The legend has the <code>text depth=0.15em</code> initial configuration, which is
<code>pgfplotstodo.tex:2718</code>	Bug [open, Priority 1, Epic “] the axis line combination styles can’t be adjusted for 3D because they are

pgfplotstodo.tex:2839 **Bug** [open, Priority 1, Epic ‘’]
there are a lot of .code 2 args styles which do not support spaces between

pgfplotstodo.tex:2897 **Bug** [open, Priority 1, Epic ‘’]
the ‘/pgfplots/table/.search also’ is overwritten during

pgfplotstodo.tex:3053 **Bug** [open, Priority 1, Epic ‘’]
In 3D case axis [xyz] line != box, there is just ONE hyperplane.

pgfplotstodo.tex:3065 **Bug** [open, Priority 1, Epic ‘’]
javascript stuff does not work if the complete figure is rotated

pgfplotstodo.tex:3081 **Bug** [open, Priority 1, Epic ‘’]
javascript: incompatibility with external library:

6 Feature Proposals PGFPlots

pgfplotstodo.tex:7497 **Feature Proposal** [open, Priority 6, Epic ‘’]
It is certainly possible to write some sort of CELL-BASED ‘mesh/surf’ shader

pgfplotstodo.tex:5142 **Feature Proposal** [open, Priority 5, Epic ‘Usability’]
parse elements of tick positions with math parser

pgfplotstodo.tex:5150 **Feature Proposal** [open, Priority 5, Epic ‘’]
the ‘xtick’ syntax accepts only numbers, not even constant expressions are

pgfplotstodo.tex:5172 **Feature Proposal** [open, Priority 5, Epic ‘’]
the following keys should process their argument with pgfmathparse:

pgfplotstodo.tex:5178 **Feature Proposal** [open, Priority 5, Epic ‘fillbetween’]
fillbetween: accept `soft path={inner x range}` or something like

<code>pgfplotstodo.tex:5189</code>	Feature Proposal [open, Priority 5, Epic ‘fillbetween’] allow predicates styles of sorts <code>every intersection below y={0}</code>
<code>pgfplotstodo.tex:5198</code>	Feature Proposal [open, Priority 5, Epic ‘Usability’] Given some PGF point, allow to access the high-level coordinates.
<code>pgfplotstodo.tex:5226</code>	Feature Proposal [open, Priority 5, Epic ‘Usability’] pgfplots math expressions always yield internal FPU formats which confuses
<code>pgfplotstodo.tex:5234</code>	Feature Proposal [open, Priority 5, Epic ‘Usability’] The distinction into survey phase and visualization phase is technically
<code>pgfplotstodo.tex:5247</code>	Feature Proposal [open, Priority 5, Epic ‘z buffer’] Pgfplots requires user input to distinguish between parameterized 3d plots
<code>pgfplotstodo.tex:5258</code>	Feature Proposal [open, Priority 5, Epic ‘’] support the <code>/data point/x</code> method for all key filters and in all
<code>pgfplotstodo.tex:5267</code>	Feature Proposal [open, Priority 5, Epic ‘polar’] polar plots should allow to paint generate tick labels for the radius on
<code>pgfplotstodo.tex:5271</code>	Feature Proposal [open, Priority 5, Epic ‘’] new plot structure: use the ‘ <code>/data point</code> ’ key interface coming with pgf CVS
<code>pgfplotstodo.tex:5277</code>	Feature Proposal [open, Priority 5, Epic ‘’] Idea for input stuff: implement high level user interface for coordinate
<code>pgfplotstodo.tex:5282</code>	Feature Proposal [open, Priority 5, Epic ‘polar’] boxed polar plots
<code>pgfplotstodo.tex:5299</code>	Feature Proposal [open, Priority 5, Epic ‘v2’] it would be nice to have a way to overcome weaknesses of the old pgfplots

<code>pgfplotstodo.tex:5304</code>	Feature Proposal [open, Priority 5, Epic ‘’] add support for <code>list</code> and <code>make</code> under windows. Perhaps powershell
<code>pgfplotstodo.tex:5340</code>	Feature Proposal [open, Priority 5, Epic ‘’] Loading matrix data which contains just Z coordinates is quite involved.
<code>pgfplotstodo.tex:5348</code>	Feature Proposal [open, Priority 5, Epic ‘’] One question that I got was about support for hexbin plots. Something along
<code>pgfplotstodo.tex:5373</code>	Feature Proposal [open, Priority 5, Epic ‘Stefan Pinnow CM’] simplify visualization of barymetric surface data
<code>pgfplotstodo.tex:5412</code>	Feature Proposal [open, Priority 5, Epic ‘Stefan Pinnow CM’] add support to build a <i>nonuniform</i> colormap of a colormap
<code>pgfplotstodo.tex:5416</code>	Feature Proposal [open, Priority 5, Epic ‘Stefan Pinnow CM’] allow colormaps of size 1
<code>pgfplotstodo.tex:5447</code>	Feature Proposal [open, Priority 5, Epic ‘Stefan Pinnow CM’] allow to define colormaps with arbitrary positions which are then mapped to
<code>pgfplotstodo.tex:5525</code>	Feature Proposal [open, Priority 5, Epic ‘Stefan Pinnow CM’] Allow to build colormaps based on what we see in a colorbar (not map!)
<code>pgfplotstodo.tex:5542</code>	Feature Proposal [open, Priority 5, Epic ‘Stefan Pinnow CM’] <code> colorbarstyle=ytick</code> data—
<code>pgfplotstodo.tex:5562</code>	Feature Proposal [open, Priority 5, Epic ‘Stefan Pinnow CM’] color of colormap mit piecewise const
<code>pgfplotstodo.tex:5566</code>	Feature Proposal [open, Priority 5, Epic ‘’] implement waterfall charts (?)

<code>pgfplotstodo.tex:5617</code>	Feature Proposal [open, Priority 5, Epic ‘’] finish + document <code>plot yshift auto</code> (idea: allow something like bar)
<code>pgfplotstodo.tex:5622</code>	Feature Proposal [open, Priority 5, Epic ‘’] it would be very interesting to allow more flexible handling of empty lines
<code>pgfplotstodo.tex:5627</code>	Feature Proposal [open, Priority 5, Epic ‘’] the ‘table/y index’ should be changed. It should be <code>min(numcols,1)</code> instead
<code>pgfplotstodo.tex:5643</code>	Feature Proposal [open, Priority 5, Epic ‘’] it would be useful if the clipping could be disabled for certain parts of
<code>pgfplotstodo.tex:5693</code>	Feature Proposal [open, Priority 5, Epic ‘’] optimization ideas:
<code>pgfplotstodo.tex:5698</code>	Feature Proposal [open, Priority 5, Epic ‘’] perhaps math style
<code>pgfplotstodo.tex:5704</code>	Feature Proposal [open, Priority 5, Epic ‘’] provide access to axis limits and data bounding box.
<code>pgfplotstodo.tex:5709</code>	Feature Proposal [open, Priority 5, Epic ‘’] allow math expressions for axis limits etc. Idea: try float parsing routine;
<code>pgfplotstodo.tex:5716</code>	Feature Proposal [open, Priority 5, Epic ‘’] write a public math interface which provides access to axis internals like
<code>pgfplotstodo.tex:5758</code>	Feature Proposal [open, Priority 5, Epic ‘’] Store the axis limits into the axis’ node as saved macros. This would allow
<code>pgfplotstodo.tex:5764</code>	Feature Proposal [open, Priority 5, Epic ‘’] I could provide public macros for the data transformations (and inverse

<code>pgfplotstodo.tex:5768</code>	Feature Proposal [open, Priority 5, Epic ‘’] cycle list should be implemented using an array structure. That’s faster.
<code>pgfplotstodo.tex:5775</code>	Feature Proposal [open, Priority 5, Epic ‘’] the error bar implementation is relatively inefficient. Think about
<code>pgfplotstodo.tex:5808</code>	Feature Proposal [open, Priority 5, Epic ‘’] think about using a combination of the visualization engine of pgf CVS and
<code>pgfplotstodo.tex:5818</code>	Feature Proposal [open, Priority 5, Epic ‘polar’] polar axes and <code>axis x line shift</code> (i.e. shift the circles).
<code>pgfplotstodo.tex:5832</code>	Feature Proposal [open, Priority 5, Epic ‘’] add expressions ‘row’ and ‘col’ which expand to the current row/col index
<code>pgfplotstodo.tex:5837</code>	Feature Proposal [open, Priority 5, Epic ‘fillbetween’] fillbetween: add support to style the “positive” and “negative” region,
<code>pgfplotstodo.tex:5858</code>	Feature Proposal [open, Priority 5, Epic ‘’] http://tex.stackexchange.com/questions/247973/ customize-length-of-y-major-grids-in-pgfplots
<code>pgfplotstodo.tex:5869</code>	Feature Proposal [open, Priority 5, Epic ‘’] Add option of sorts “shift along outer normal vector of current axis”
<code>pgfplotstodo.tex:5886</code>	Feature Proposal [open, Priority 5, Epic ‘’] implement special math formulas for cube roots
<code>pgfplotstodo.tex:5892</code>	Feature Proposal [open, Priority 5, Epic ‘’] allow a simple way to connect coordinates of different axes, i.e.
<code>pgfplotstodo.tex:5897</code>	Feature Proposal [open, Priority 5, Epic ‘’] add <code>enlarge limits=to next tick label</code> , see

<code>pgfplotstodo.tex:5936</code>	Feature Proposal [open, Priority 5, Epic ‘’] allow <code>#</code> inside of inline tables: the following does not work in any
<code>pgfplotstodo.tex:5948</code>	Feature Proposal [open, Priority 5, Epic ‘’] write a script which applies the entire “release todo” over night:
<code>pgfplotstodo.tex:5955</code>	Feature Proposal [open, Priority 5, Epic ‘’] stream plots: contour plots in which each contour line is actually of type
<code>pgfplotstodo.tex:5959</code>	Feature Proposal [open, Priority 5, Epic ‘’] lua backend support for <code>restrict expr to domain</code>
<code>pgfplotstodo.tex:6173</code>	Feature Proposal [open, Priority 5, Epic ‘’] improve the outcome of <code>log ticks with fixed point</code> if the data range
<code>pgfplotstodo.tex:6180</code>	Feature Proposal [open, Priority 5, Epic ‘’] Add support for a transformation which allows TIME input data (i.e.
<code>pgfplotstodo.tex:6188</code>	Feature Proposal [open, Priority 5, Epic ‘’] slanted and sloped text (projected onto some axis plane)
<code>pgfplotstodo.tex:6195</code>	Feature Proposal [open, Priority 5, Epic ‘external’] external lib: rerun externalization in case of unresolved references.
<code>pgfplotstodo.tex:6203</code>	Feature Proposal [open, Priority 5, Epic ‘’] allow some simply style of sorts “xtick should have a distance of 10. Get
<code>pgfplotstodo.tex:6213</code>	Feature Proposal [open, Priority 5, Epic ‘’] add styles to format seconds using some time format
<code>pgfplotstodo.tex:6220</code>	Feature Proposal [open, Priority 5, Epic ‘’] table package: Add style “modify content for the following row indices”

<code>pgfplotstodo.tex:6246</code>	Feature Proposal [open, Priority 5, Epic ‘’] ich bin es nochmal. Ich habe nochmal eine Anmerkung zu den decorations. Ich
<code>pgfplotstodo.tex:6256</code>	Feature Proposal [open, Priority 5, Epic ‘’] Unbounded point meta data should be filtered out.
<code>pgfplotstodo.tex:6264</code>	Feature Proposal [open, Priority 5, Epic ‘graphics’] addplot graphics: support “scale to natural dimensions” of the input
<code>pgfplotstodo.tex:6287</code>	Feature Proposal [open, Priority 5, Epic ‘’] bullet graphs:
<code>pgfplotstodo.tex:6295</code>	Feature Proposal [open, Priority 5, Epic ‘’] add “stackable tick labels” (tick labels with vertical shifts if they are
<code>pgfplotstodo.tex:6305</code>	Feature Proposal [open, Priority 5, Epic ‘’] Allow to shift (x) tick labels vertically if they are too dense.
<code>pgfplotstodo.tex:6340</code>	Feature Proposal [open, Priority 5, Epic ‘’] suppress tick-line cross in 3d for view directions in which the cross
<code>pgfplotstodo.tex:6365</code>	Feature Proposal [open, Priority 5, Epic ‘’] the ... syntax in tick label position lists is inherently limited to
<code>pgfplotstodo.tex:6377</code>	Feature Proposal [open, Priority 5, Epic ‘’] Implement document-level javascript for the clickable lib WITHOUT the
<code>pgfplotstodo.tex:6384</code>	Feature Proposal [open, Priority 5, Epic ‘’] Implement a custom legend environment such that one doesn’t need to collect
<code>pgfplotstodo.tex:6399</code>	Feature Proposal [open, Priority 5, Epic ‘v2’] improve grid line placement for grouped bar plots: grid lines should not

<code>pgfplotstodo.tex:6407</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] provide a way to provide more customization to stacked plots as in
<code>pgfplotstodo.tex:6416</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] staggered tick labels
<code>pgfplotstodo.tex:6454</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] interrupted bar plots
<code>pgfplotstodo.tex:6459</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] bar plots: Introduce significance stars (see GROUP BARS on
<code>pgfplotstodo.tex:6749</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] GROUP BARS
<code>pgfplotstodo.tex:6787</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] Mails from Stefan Ruhstorfer:
<code>pgfplotstodo.tex:6797</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] It is surprisingly difficult to have JUST axis ticks and tick labels and
<code>pgfplotstodo.tex:6802</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] Allow 3d bar plots (see also
<code>pgfplotstodo.tex:6823</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] Individual bars: allow to modify / adjust the bar plot handler(s) such that
<code>pgfplotstodo.tex:6835</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] bar plots: auto-select axis limits, unit size, bar width, and bar shift.
<code>pgfplotstodo.tex:6860</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] On input: provide the desired distance between adjacent bars. The bar width

<code>pgfplotstodo.tex:6872</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] bar plots: if you provide both, the desired distance between adjacent bars
<code>pgfplotstodo.tex:6878</code>	Feature Proposal [open, Priority 5, Epic ‘’] allow better default styles for bar plots, compare
<code>pgfplotstodo.tex:6885</code>	Feature Proposal [open, Priority 5, Epic ‘polar’] allow to rotate polar plots and fix rotation of tick labels.
<code>pgfplotstodo.tex:6892</code>	Feature Proposal [open, Priority 5, Epic ‘polar’] polar axes: polar bar plots (see sourceforge feature request and
<code>pgfplotstodo.tex:6897</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] chunked bars: interrupt the bars at predefined coordinates (like white grid
<code>pgfplotstodo.tex:6911</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] bar plots:
<code>pgfplotstodo.tex:6916</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] let stacked bar plots respect the line width when stacking them on top of
<code>pgfplotstodo.tex:6921</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] Default bar plot styles should always include the (correct) origin in the
<code>pgfplotstodo.tex:6930</code>	Feature Proposal [open, Priority 5, Epic ‘Bar plots’] It should be simpler to customize the position of nodes near coords in a
<code>pgfplotstodo.tex:6939</code>	Feature Proposal [open, Priority 5, Epic ‘layers’] Layered graphics: consider drawing tick lines which are on the “outer
<code>pgfplotstodo.tex:6947</code>	Feature Proposal [open, Priority 5, Epic ‘’] allow support for units in <code>bar width</code> and <code>bar shift</code> (compare

<code>pgfplotstodo.tex:6958</code>	Feature Proposal [open, Priority 5, Epic ‘external’] it would be nice to have automatic PNG export for huge graphics. Such an
<code>pgfplotstodo.tex:6975</code>	Feature Proposal [open, Priority 5, Epic ‘’] There is no simple way to provide LOG colorbars:
<code>pgfplotstodo.tex:6979</code>	Feature Proposal [open, Priority 5, Epic ‘’] Cases-statement in math parser
<code>pgfplotstodo.tex:6984</code>	Feature Proposal [open, Priority 5, Epic ‘’] the <code>empty line</code> feature should produce a log notice when it finds an
<code>pgfplotstodo.tex:6989</code>	Feature Proposal [open, Priority 5, Epic ‘’] Support something like
<code>pgfplotstodo.tex:6993</code>	Feature Proposal [open, Priority 5, Epic ‘’] add ‘force 2d axis’ key (or similar)
<code>pgfplotstodo.tex:7002</code>	Feature Proposal [open, Priority 5, Epic ‘’] Support standard filters for <code>hist</code> and its variants.
<code>pgfplotstodo.tex:7007</code>	Feature Proposal [open, Priority 5, Epic ‘’] Table Package: support context-based <code>row predicates</code> (some kind of
<code>pgfplotstodo.tex:7012</code>	Feature Proposal [open, Priority 5, Epic ‘’] Support selection of individual 3D axis lines which shall be drawn (or
<code>pgfplotstodo.tex:7016</code>	Feature Proposal [open, Priority 5, Epic ‘’] linear regression which passes through (0,0) (see mail of Stefan Pinnow)
<code>pgfplotstodo.tex:7021</code>	Feature Proposal [open, Priority 5, Epic ‘’] plot graphics 3D: handle the case when the first two points share the same

<code>pgfplotstodo.tex:7025</code>	Feature Proposal [open, Priority 5, Epic ‘’] hist does not allow modifications to the data range
<code>pgfplotstodo.tex:7029</code>	Feature Proposal [open, Priority 5, Epic ‘’] feature to replicate axis descriptions on both sides
<code>pgfplotstodo.tex:7036</code>	Feature Proposal [open, Priority 5, Epic ‘external’] couldn’t you add something like
<code>pgfplotstodo.tex:7041</code>	Feature Proposal [open, Priority 5, Epic ‘’] make work <code>\matrix in \matrix</code> so one can use groupplots or
<code>pgfplotstodo.tex:7070</code>	Feature Proposal [open, Priority 5, Epic ‘groupplots’] groupplots: group-wide axis labels
<code>pgfplotstodo.tex:7081</code>	Feature Proposal [open, Priority 5, Epic ‘’] is there a way to get the current row/col index during addplot?
<code>pgfplotstodo.tex:7107</code>	Feature Proposal [open, Priority 5, Epic ‘’] plot shell:
<code>pgfplotstodo.tex:7116</code>	Feature Proposal [open, Priority 5, Epic ‘’] new <code>\plotnumofactualtype</code> thing: if you set <code>/tikz/</code> plot handlers in
<code>pgfplotstodo.tex:7138</code>	Feature Proposal [open, Priority 5, Epic ‘polar’] polar:
<code>pgfplotstodo.tex:7142</code>	Feature Proposal [open, Priority 5, Epic ‘’] patch visualization: provide displacement input format
<code>pgfplotstodo.tex:7167</code>	Feature Proposal [open, Priority 5, Epic ‘quiver’] quiver plots:

<code>pgfplotstodo.tex:7171</code>	Feature Proposal [open, Priority 5, Epic “]
	plot expression: make the sampling parameters available within survey phase
<code>pgfplotstodo.tex:7175</code>	Feature Proposal [open, Priority 5, Epic “]
	the table package uses a lot of logs – but it can’t change the log basis.
<code>pgfplotstodo.tex:7180</code>	Feature Proposal [open, Priority 5, Epic “]
	3D + axis line variants: someone might prefer GRID LINES as for the boxed
<code>pgfplotstodo.tex:7225</code>	Feature Proposal [open, Priority 5, Epic “]
	Mail by Hubertus Bromberger:
<code>pgfplotstodo.tex:7235</code>	Feature Proposal [open, Priority 5, Epic “]
	add something like
<code>pgfplotstodo.tex:7248</code>	Feature Proposal [open, Priority 5, Epic ‘ternary’]
	ternary diagrams todo:
<code>pgfplotstodo.tex:7261</code>	Feature Proposal [open, Priority 5, Epic “]
	contour:
<code>pgfplotstodo.tex:7270</code>	Feature Proposal [open, Priority 5, Epic “]
	filled contour plots (prototype is 10% ready)
<code>pgfplotstodo.tex:7279</code>	Feature Proposal [open, Priority 5, Epic “]
	DUPLICATE
<code>pgfplotstodo.tex:7301</code>	Feature Proposal [open, Priority 5, Epic “]
	contour draft TODO:
<code>pgfplotstodo.tex:7306</code>	Feature Proposal [open, Priority 5, Epic “]
	implement simplified constructions to access DIFFERENCE coordinates.

<code>pgfplotstodo.tex:7317</code>	Feature Proposal [open, Priority 5, Epic ‘pgfplotstable’] table package and axes should improve their communication.
<code>pgfplotstodo.tex:7322</code>	Feature Proposal [open, Priority 5, Epic ‘’] provide and document access to (sanitized?) mesh/rows and mesh/cols fields
<code>pgfplotstodo.tex:7329</code>	Feature Proposal [open, Priority 5, Epic ‘’] Praktisch finde ich, wenn man folgende Dinge spezifizieren kann:
<code>pgfplotstodo.tex:7353</code>	Feature Proposal [open, Priority 5, Epic ‘’] improve support for multiple ordinates
<code>pgfplotstodo.tex:7359</code>	Feature Proposal [open, Priority 5, Epic ‘’] provide a <code>\pgfplotspathcube</code> command as generalization from the cube
<code>pgfplotstodo.tex:7368</code>	Feature Proposal [open, Priority 5, Epic ‘’] re-implement sampling loops. I should discard the compatibility with foreach
<code>pgfplotstodo.tex:7373</code>	Feature Proposal [open, Priority 5, Epic ‘’] what about a feature like <code>'draw[xmin=...,xmax=...] fitline</code> between points
<code>pgfplotstodo.tex:7377</code>	Feature Proposal [open, Priority 5, Epic ‘’] interpolate missing coordinates for stacked plots.
<code>pgfplotstodo.tex:7381</code>	Feature Proposal [open, Priority 5, Epic ‘z buffer’] the coordindex shouldn’t be changed by <code>z buffer=sort</code>
<code>pgfplotstodo.tex:7418</code>	Feature Proposal [open, Priority 5, Epic ‘pgfplotstable’] table package: provide abstract layer for low level storage interface.
<code>pgfplotstodo.tex:7509</code>	Feature Proposal [open, Priority 5, Epic ‘’] imagesc combined with input of sorts

<code>pgfplotstodo.tex:7553</code>	Feature Proposal [open, Priority 5, Epic ‘’] Ein weiteres wnschenswertes Feature aus meiner Email ist, dass man die
<code>pgfplotstodo.tex:7681</code>	Feature Proposal [open, Priority 5, Epic ‘colormap’] <code>finish colormap access=direct</code>
<code>pgfplotstodo.tex:7685</code>	Feature Proposal [open, Priority 5, Epic ‘legend’] <code>support \multicolumn</code> for legends
<code>pgfplotstodo.tex:7690</code>	Feature Proposal [open, Priority 5, Epic ‘legend’] it appears line breaks in legend descriptions are a problem (?)
<code>pgfplotstodo.tex:7694</code>	Feature Proposal [open, Priority 5, Epic ‘pgfplotstable’] <code>pgfplotstable</code> file open protocol: provide public listener interface
<code>pgfplotstodo.tex:7725</code>	Feature Proposal [open, Priority 5, Epic ‘’] precise width calculation idea:
<code>pgfplotstodo.tex:7729</code>	Feature Proposal [open, Priority 5, Epic ‘’]
<code>pgfplotstodo.tex:6359</code>	Feature Proposal [open, Priority 4, Epic ‘’] regression line computation: also generate macros containing the
<code>pgfplotstodo.tex:7121</code>	Feature Proposal [open, Priority 3, Epic ‘Performance’] disable bounding box updated during <code>addplot</code> – it makes no sense and wastes
<code>pgfplotstodo.tex:6350</code>	Feature Proposal [open, Priority 2, Epic ‘’] faceted allows to draw the entire rectangle.
<code>pgfplotstodo.tex:5253</code>	Feature Proposal [open, Priority 1, Epic ‘fillbetween’] Optimization: if the same plot contains <code>name intersections</code> and

pgfplots todo.tex:7061 **Feature Proposal** [open, Priority 1, Epic ‘’]
nested axes would be a nice feature.

pgfplots todo.tex:7077 **Feature Proposal** [open, Priority 1, Epic ‘’]
log plots: minor tick num would be useful here! If tick labels are placed

pgfplots todo.tex:7745 **Feature Proposal** [cancelled, Priority 5, Epic ‘’]
idea: ‘mesh/ordering=auto’. Just check for ‘x varies’ and ‘y varies’! The