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Gallery

Higgs Plots

This gallery shows some of the plots (produced using ROOT) presented when the Higgs boson...

CMS CLs Exclusion Plot **CMS Tau Discrimination**

CMS P-Value trends



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Latest

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Topic

For users: see what is possible – and how

For developers: see real-world usage



1. **Visually Searchable** There should be plots or graphics presenting what the code is doing
2. **Graphics and code** Together with the graphics, the code should be readily available for copy-and-paste
3. **Simple to Contribute** Users should be encouraged to upload their best samples themselves – perhaps through github pull requests
4. **Comments** It should be possible to comment, improve, and update the samples



Demos for gnuplot version 5.2 (pngcairo terminal) See also the demo output for the [SVG](#) and [canvas](#) terminals.

Gnuplot is distributed with a large set of demonstration scripts. Here are samples of PNG output from some of the demos.

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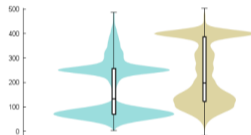
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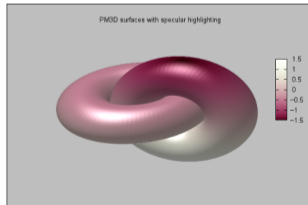
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Superimposed violin plot and box plot



PM3D surfaces with specular highlighting





gnuplot demo script: [circles.dem](#)

autogenerated by *webify.pl* on Tue Jun 6 18:12:39 2017
gnuplot version gnuplot 5.2 patchlevel rc2



Note that overlapping transparent circles produce a darker area

```
#
# demo for the use of "set object circle" and "plot ... with circles"
#
# Ethan A Merritt, Ralf Juengling - 2007,2008

set size ratio -1
set style fill solid 1.0 border -1

set obj 10 circle arc [ 0 : 20] fc rgb "red"
set obj 11 circle arc [ 20 : 50] fc rgb "orange"
set obj 12 circle arc [ 50 : 90] fc rgb "yellow"
set obj 13 circle arc [ 90 : 120] fc rgb "forest-green"
set obj 14 circle arc [ 120 : 190] fc rgb "dark-turquoise"
set obj 15 circle arc [ 190 : 360] fc rgb "dark-magenta"

set obj 10 circle at screen .18,.32 size screen .10 front
set obj 11 circle at screen .18,.32 size screen .10 front
set obj 12 circle at screen .18,.32 size screen .10 front
set obj 13 circle at screen .1767,.342 size screen .10 front
set obj 14 circle at screen .18,.32 size screen .10 front
set obj 15 circle at screen .18,.32 size screen .10 front

set obj 20 rect from graph 0,0 to graph 1,1 behind fc rgb "cyan" fs solid 0.2

# plot world map and correspondent locations as a circle
set title
set xlabel "Note that overlapping transparent circles produce a darker area"
unset key
unset xtics
unset ytics
set border

set yrange [-70:]*

plot 'world.dat' with filledcurves lc rgb "light-green" , \
      'world.cor' using 1:2:(7.*rand(0)) with circles lt 3 \
      fs transparent solid 0.5 noborder
```

Click [here](#) for minimal script to generate this plot



T_EXample.net } Abc

TikZ Community Weblog

Examples Resources Builds Questions

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Example: A calendar for doublesided DIN-A4

Published 2012-11-18 | Author: Robert Krause

An example how the calendar package can be used to provide an double-sided calendar for the whole year.

Based on this, Rolf Niepraschk wrote a LaTeX class. It can be found on <https://github.com/rolfn/kalenderRN>. Currently, there's also an example for 2016.

Download as: [PDF] [TEX] • [Open in Overleaf]

2013 Ferienkalender

January	February	March	April	May	June
1. Di	1. Fr	1. Sa	2. So	3. Mo	4. Di
2. Mi	2. Sa	2. So	3. Mo	3. Di	3. Mi
3. Do	3. So	3. So	3. Mo	3. Di	3. Mi
4. Fr	4. Mo	4. Mo	4. Di	4. Mi	4. Do
5. Sa	5. Di	5. Di	5. Mi	5. Do	5. Fr
6. So	6. Mi	6. Mi	6. Do	6. Fr	6. Sa
7. Mo	7. Do	7. Do	7. Fr	7. Sa	7. So
8. Di	8. Fr	8. Fr	8. Sa	8. So	8. Mo
9. Mi	9. Sa	9. Sa	9. So	10. Mo	10. Di



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January	February	March	April	May	June
1. Di	1. Di	1. Di	1. Di	1. Di	1. Di
2. Mi	2. Mi	2. Mi	2. Mi	2. Mi	2. Mi
3. Do	3. Do	3. Do	3. Do	3. Do	3. Do
4. Fr	4. Fr	4. Fr	4. Fr	4. Fr	4. Fr
5. Sa	5. Sa	5. Sa	5. Sa	5. Sa	5. Sa
6. So	6. So	6. So	6. So	6. So	6. So
7. Mo	7. Mo	7. Mo	7. Mo	7. Mo	7. Mo
8. Di	8. Di	8. Di	8. Di	8. Di	8. Di
9. Mi	9. Mi	9. Mi	9. Mi	9. Mi	9. Mi

```
% DIN-A4 doublesided year calendar
% Author: Robert Krause
% License : Creative Commons attribution license
% Submitted to TeXample.net on 13 July 2012
\documentclass[landscape,a4paper,ngerman,10pt]{scrartcl}
\usepackage[utf8]{inputenc}
\usepackage[ngerman]{babel}
\usepackage[T1]{fontenc}
\usepackage{tikz} % Use the calendar.sty style
\usepackage{translator} % German Month and Day names
```



T_EXample.net } Abc

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An example how the calendar package can be us

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2013 Ferienkalender

January	February
1. Di	1. Di
2. Mi	2. Mi
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7. Mo	7. Mo
8. Di	8. Di
9. Mi	9. Mi

```
% DIN-A4 doublesided year calendar
% Author: Robert Krause
% License : Creative Commons attribution license
% Submitted to TeXample.net on 13 July 2012
\documentclass[landscape,a4paper,ngerman,10pt]{scrartcl}
```

Comments

#1 Chris, November 19, 2012 at 8:17 a.m.

I'd like to suggest two small fixes: The vertical alignment of the calendar is different for the two pages, I found out that a change of the value in `\setlength{\headheight}{10ex}` to `11ex` solves this problem. Btw: Isn't this parameter already defined by `geometry`? The second one is that I added a `\strut` in the lines

```
{\textbf{\pgfcalendarmonthname{\pgfcalendarcurrentmonth}\strut}};
```

(appears 2 times) to have all month boxes the same heigth.



Most of the ingredients appear to be there already.

A possible concrete implementation could

- use a github “contrib” repository to upload samples;
- use a well-defined function name to create the graphics, so that a static web page can be created automatically;
- add a direct connection to SWAN to open the samples in a Jupyter notebook;
- use github for comments and discussion