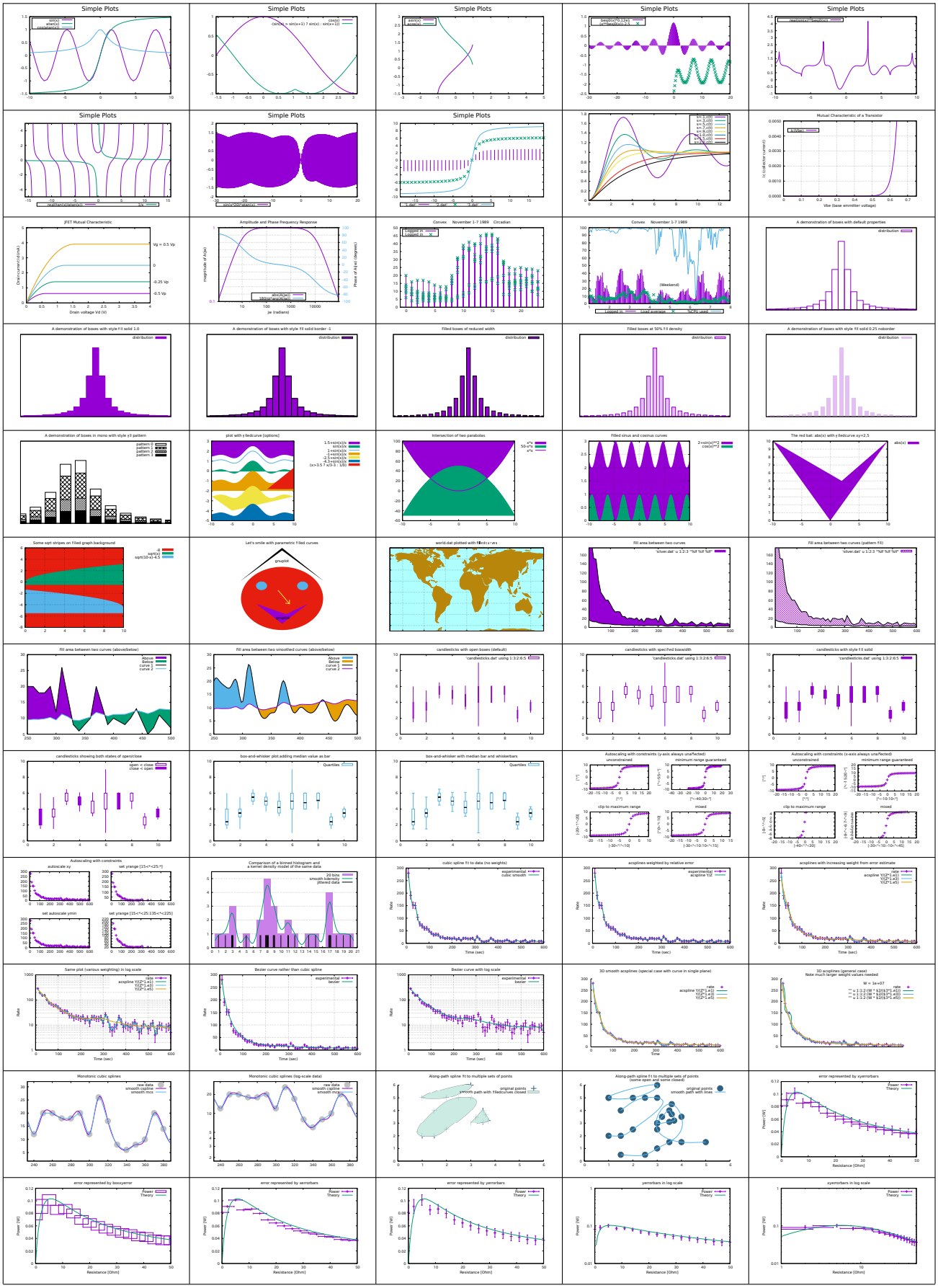
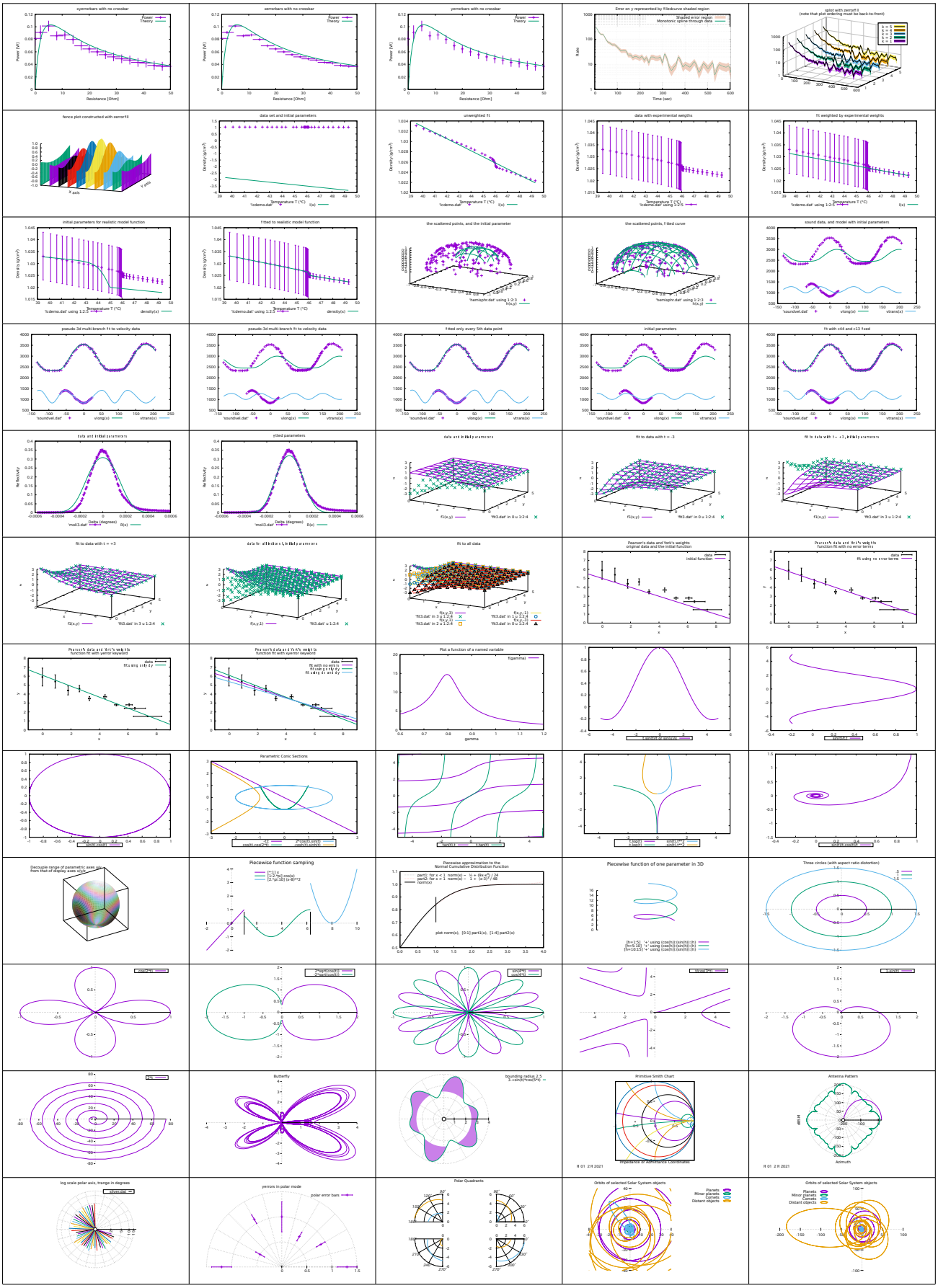
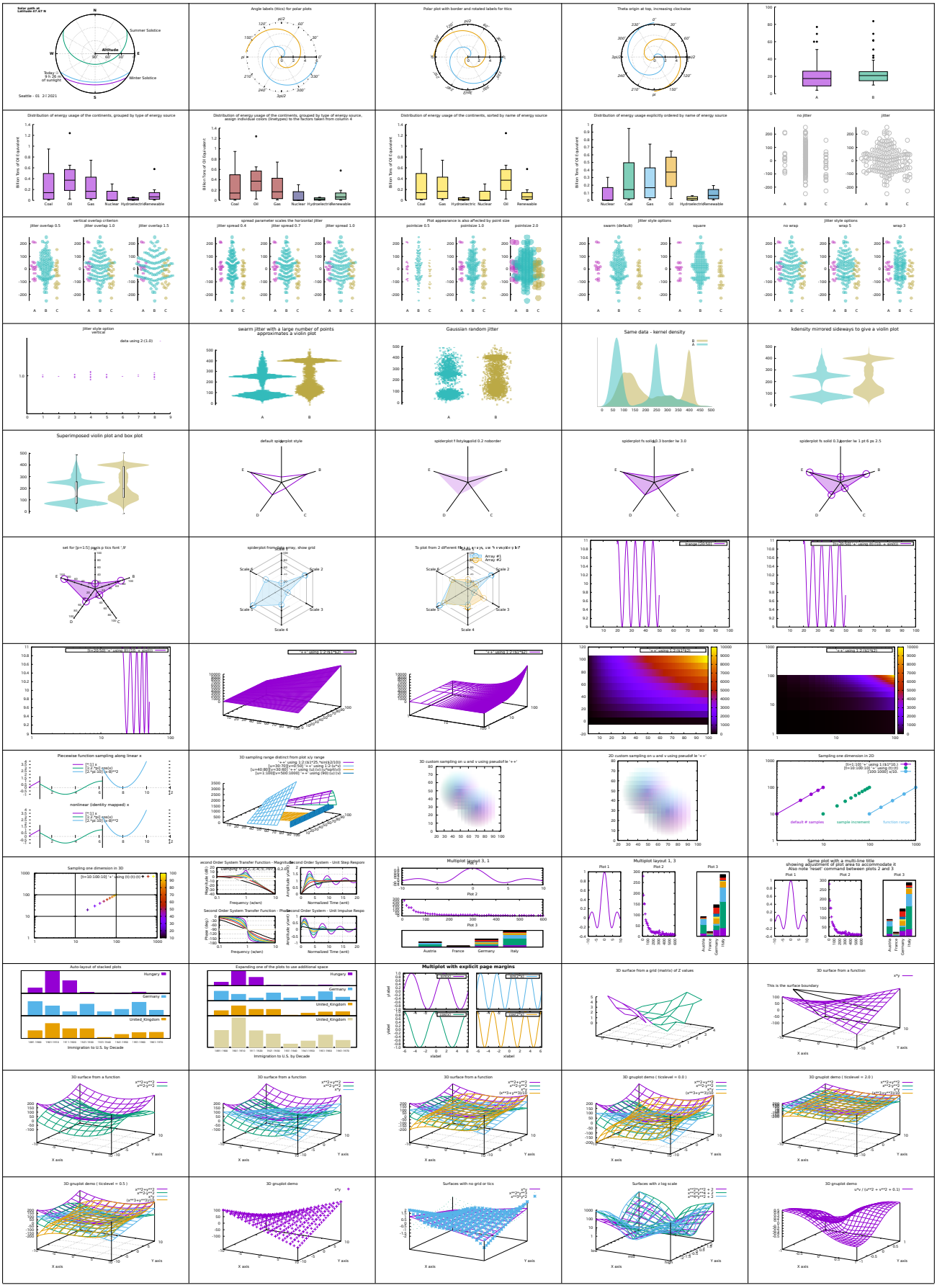
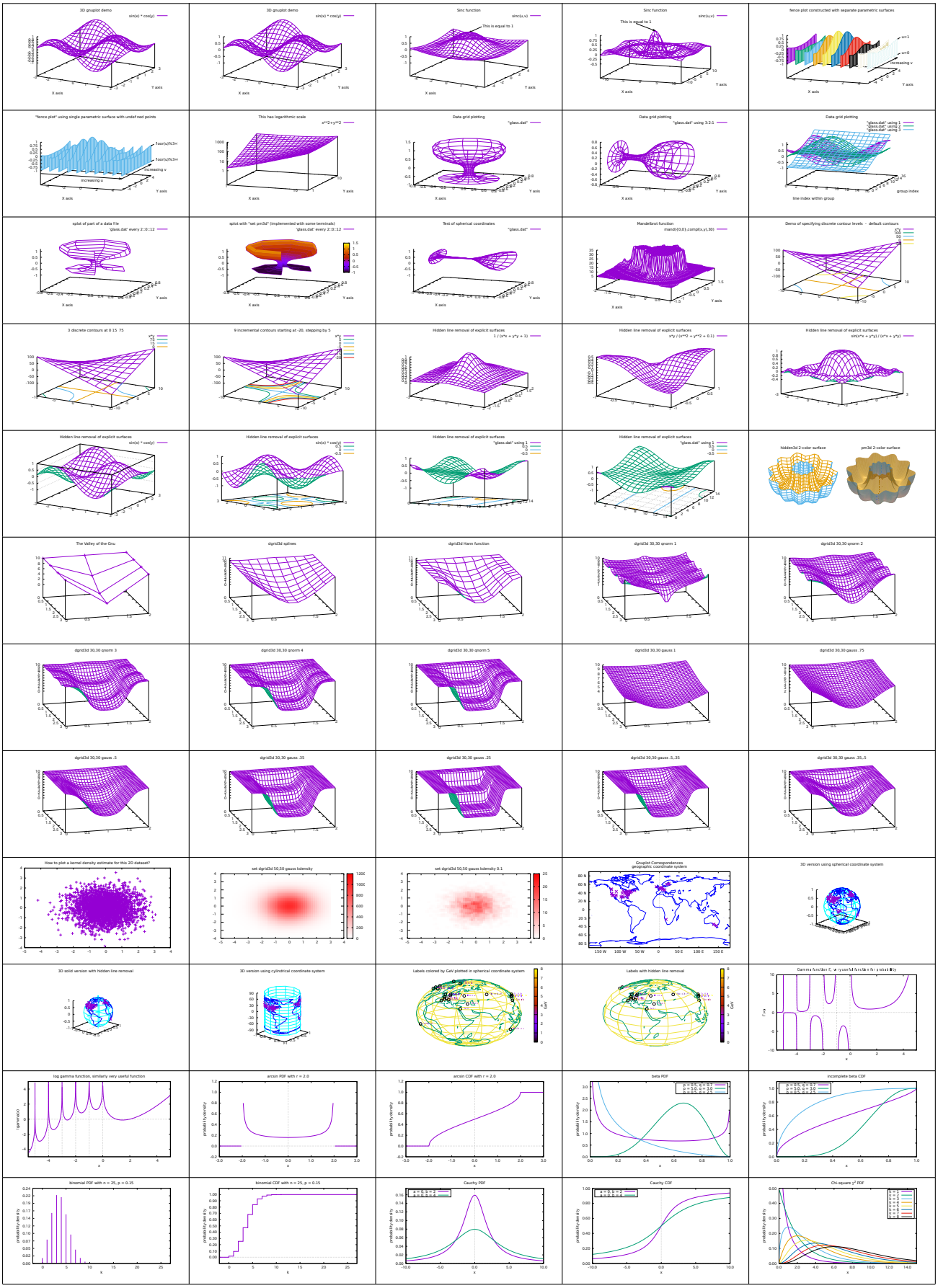
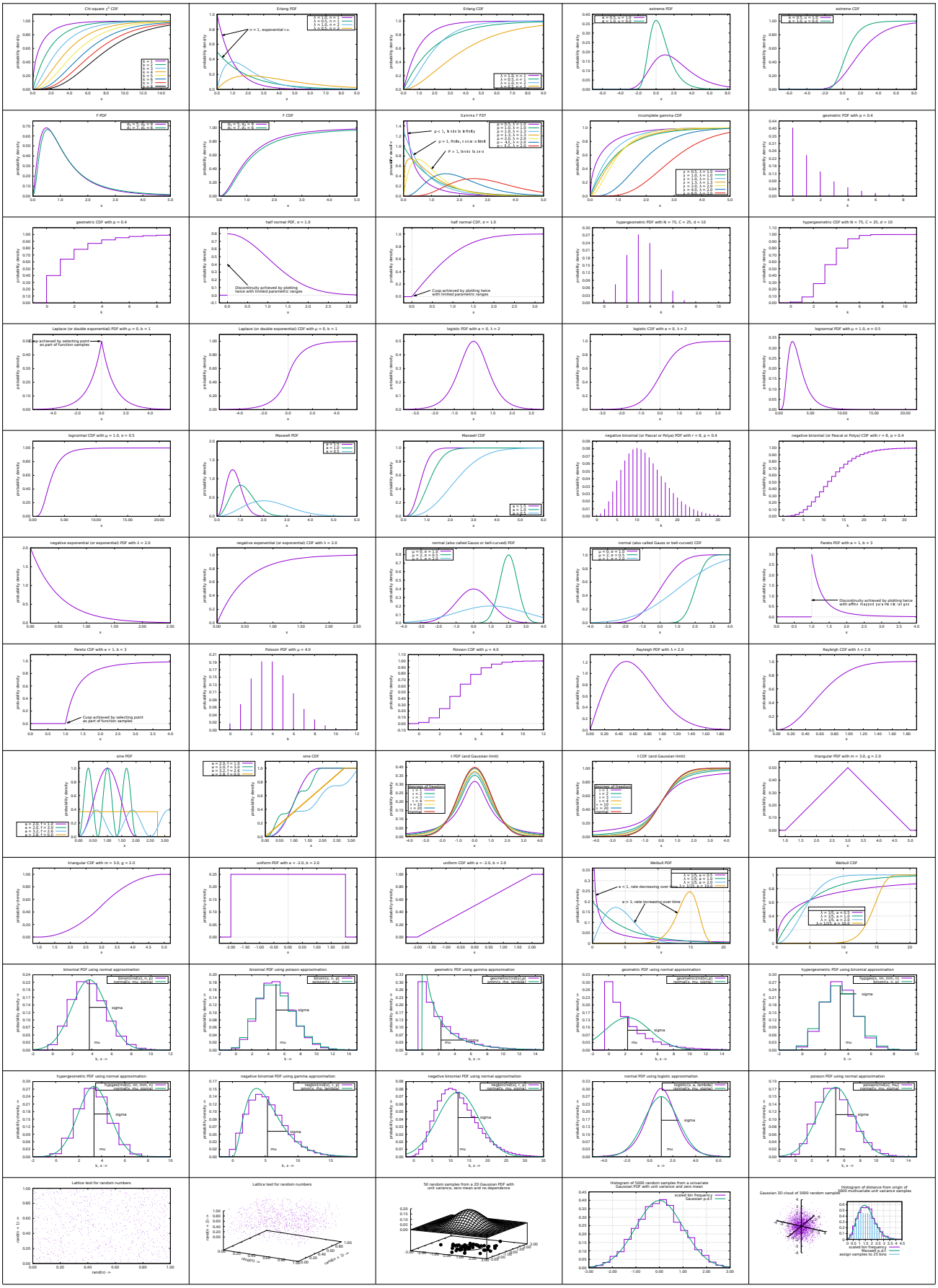
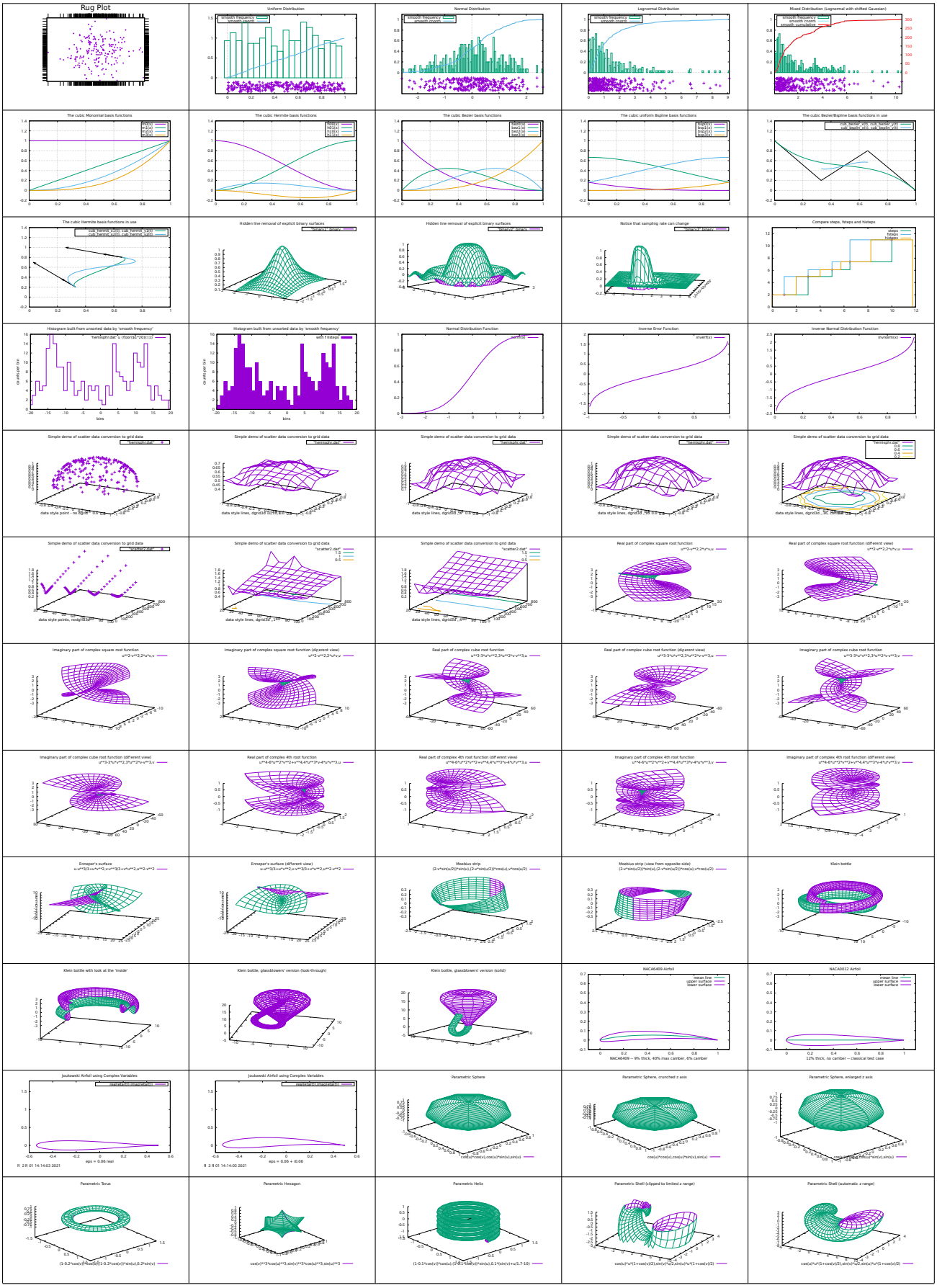

Simple Plots
Simple Plots
Simple Plots
Simple Plots
Simple Plots
Simple Plots
Simple Plots
Simple Plots
Mutual Characteristic of a Transistor
JFET Mutual Characteristic
Amplitude and Phase Frequency Response
Convex November 1-7 1989 Circadian
Convex November 1-7 1989
A demonstration of boxes with default properties
A demonstration of boxes with style f 1.0
A demonstration of boxes with style f 0 solid border -1
Filled boxes of reduced width
Filled boxes at 50% f 0 density
A demonstration of boxes with style f 0 solid 0.25 noborder
A demonstration of boxes in mono with style f 0 pattern
plot with g fledcurve [options]
Intersection of two parabolas
Filled sinus and cosinus curves
The red bat: abs(x) with g fledcurve xy=2,5
Some sqrt stripes on f filed graph background
Let's smile with parametric f filed curves
world.dat plotted with filledcurves
Fill area between two curves
Fill area between two curves (pattern f 0)
Fill area between two curves (above/below)
Fill area between two smoothed curves (above/below)
candlesticks with open boxes (default)
candlesticks with specified boxwidth
candlesticks with style f 0 solid
candlesticks showing both states of open/close
box-and-whisker plot adding median value as bar
box-and-whisker with median bar and whiskerbars
Autoscaling with constraints (x-axis always unaffected)
Autoscaling with constraints (x-axis always unaffected)
Autoscaling with constraints
Comparison of a binned histogram and a kernel density model of the same data
cubic spline f1 to data (no weights)
acsplines weighted by relative error
acsplines with increasing weight from error estimate
Same plot (various weighting) in log scale
Bezier curve rather than cubic spline
Bezier curve with log scale
3D smooth acsplines (special case with curve in single plane)
3D acsplines (general case)
Monotonic cubic splines
Monotonic cubic splines (log-scale data)
Along-path spline f1 to multiple sets of points
Along-path spline f1 to multiple sets of points
error represented by xyerrorbars
error represented by boxxyerror
error represented by xerrorbars
error represented by yerrorbars
yerrorbars in log scale
xyerrorbars in log scale

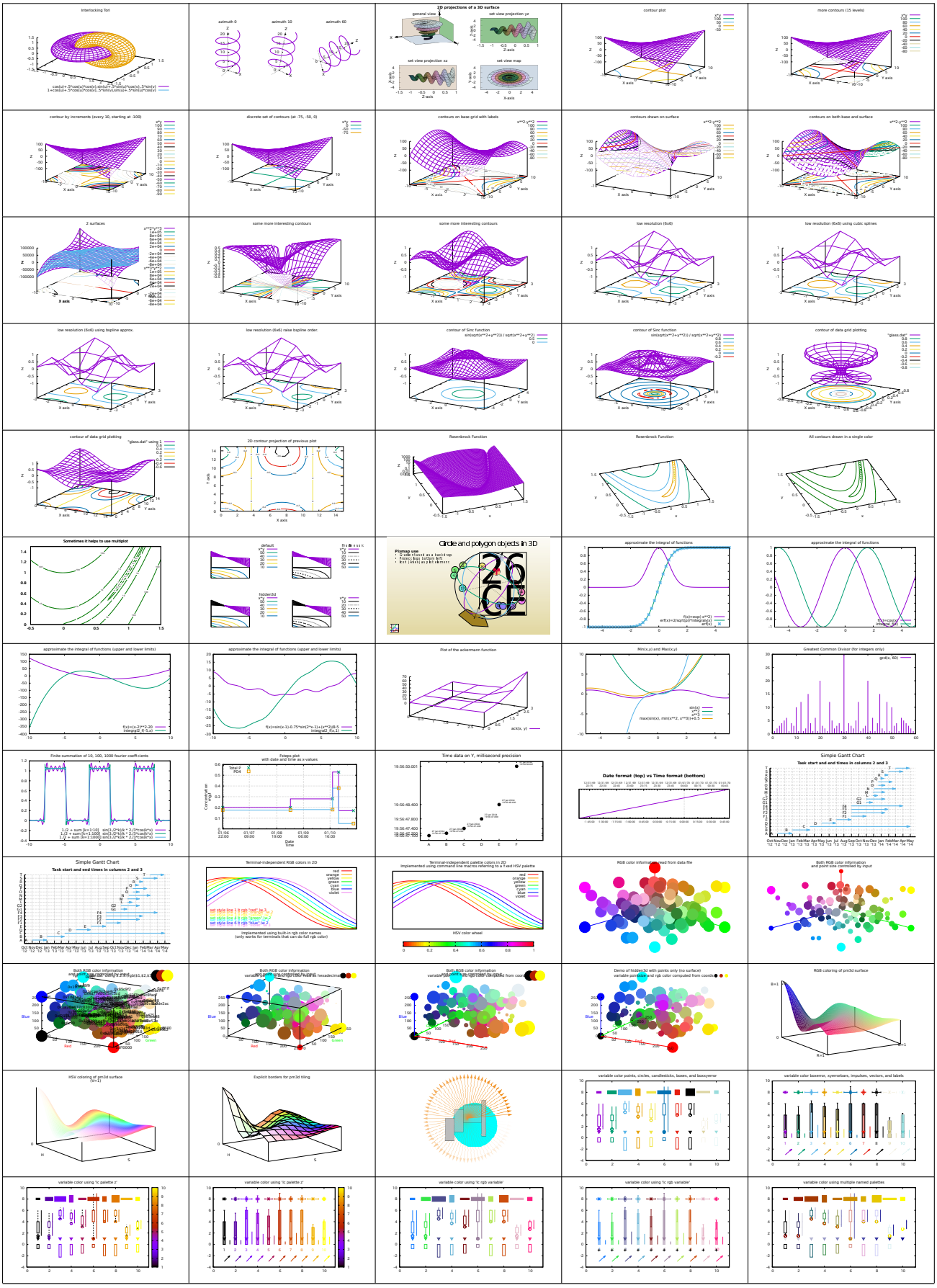


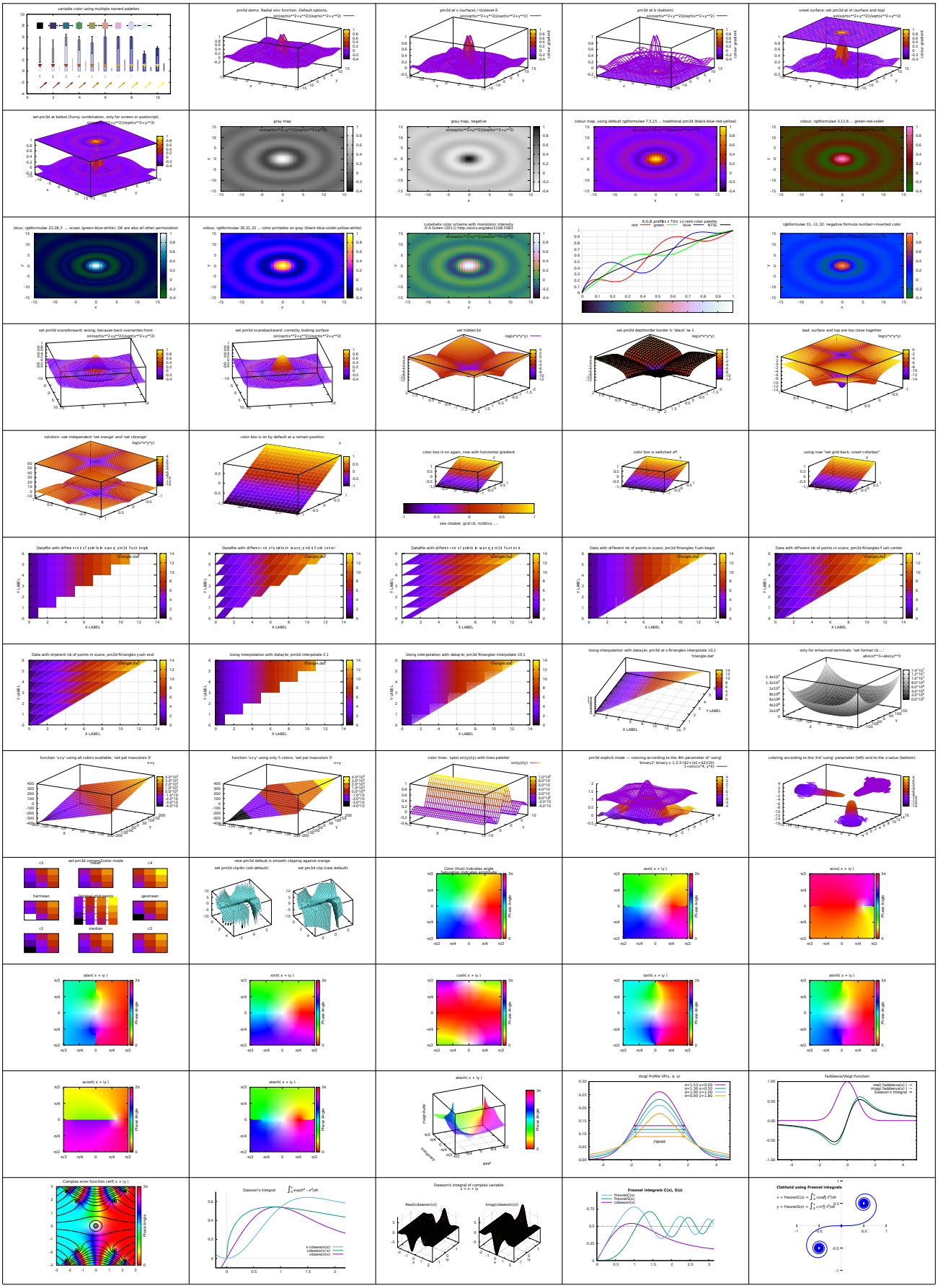


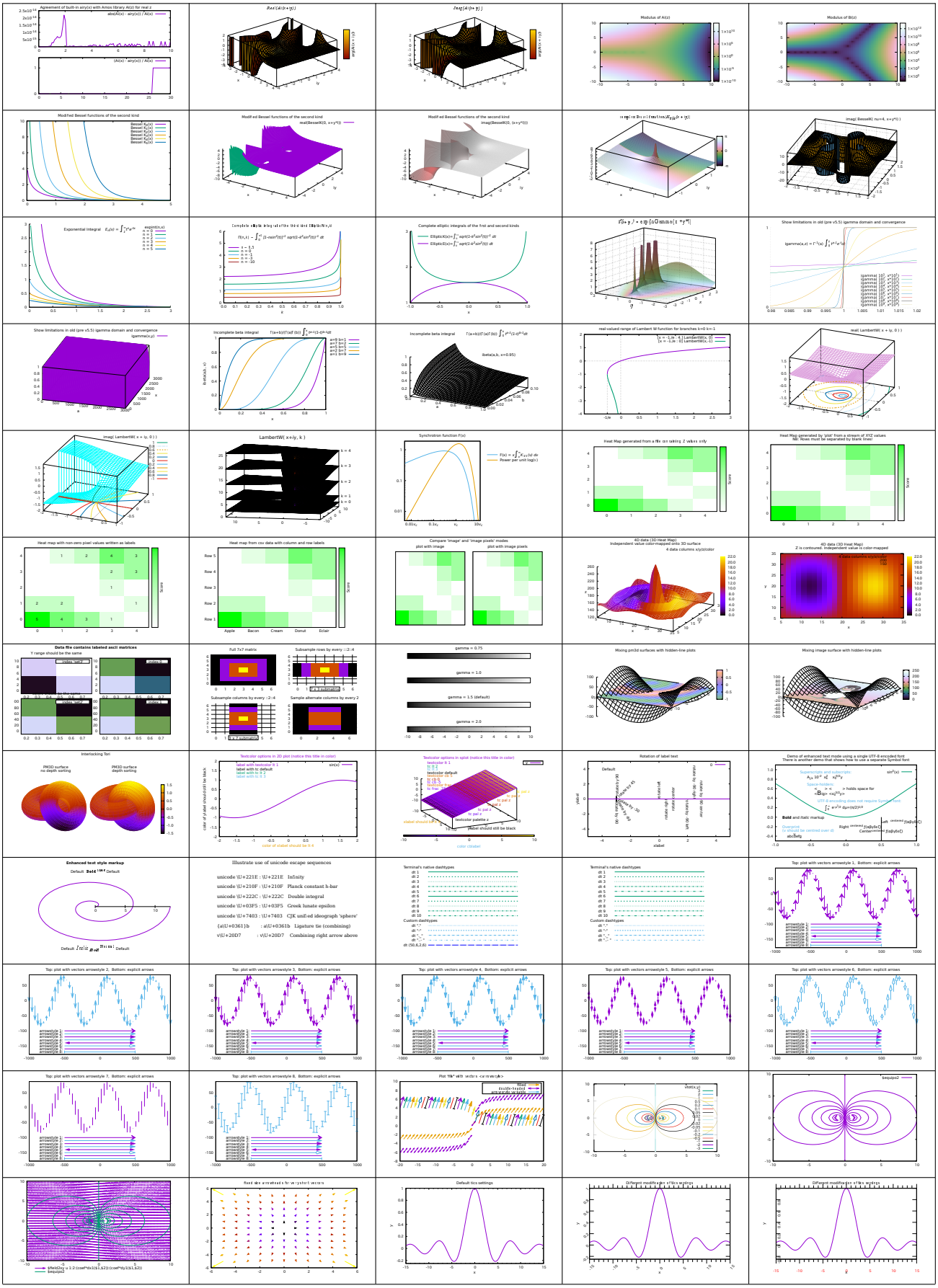

3D gnuplot demo
sin(x) * cos(y)
X axis
Y axis
3D gnuplot demo
sin(x) * cos(y)
X axis
Y axis
Sinc function
sinc(u,v)
This is equal to 1
X axis
Y axis
Sinc function
sinc(u,v)
This is equal to 1
X axis
Y axis
fence plot constructed with separate parametric surfaces
u=1
u=0
increasing v
X axis
Y axis
"fence plot" using single parametric surface with undefined points
increasing u
increasing v
X axis
Y axis
This has logarithmic scale
x**2+y**2
X axis
Y axis
Data grid plotting
"glass.dat"
X axis
Y axis
Data grid plotting
"glass.dat" using 3:2:1
X axis
Y axis
Data grid plotting
"glass.dat" using 1
"glass.dat" using 2
"glass.dat" using 3
line index within group
group index
splot of part of a data file
'glass.dat' every 2::0::12
X axis
Y axis
splot with "set pm3d" (implemented with some terminals)
'glass.dat' every 2::0::12
X axis
Y axis
Test of spherical coordinates
"glass.dat"
X axis
Y axis
Mandelbrot function
mand(-{0.0},.comp(x,y),30)
X axis
Y axis
Demo of specifying discrete contour levels - default contours
x
y
X axis
Y axis
3 discrete contours at 0 15 75
x*y
75
15
0
Y axis
9 incremental contours starting at -20, stepping by 5
x*y
20
15
10
5
0
-5
-10
-15
-20
Y axis
Hidden line removal of explicit surfaces
1 / (x*x + y*y + 1)
Hidden line removal of explicit surfaces
x*y / (x**2 + y**2 + 0.1)
Hidden line removal of explicit surfaces
sin(x*x + y*y) / (x*x + y*y)
Hidden line removal of explicit surfaces
sin(x) * cos(y)
Hidden line removal of explicit surfaces
sin(x) * cos(y)
Hidden line removal of explicit surfaces
"glass.dat" using 1
Hidden line removal of explicit surfaces
"glass.dat" using 1
hidden3d 2-color surface
pm3d 2-color surface
The Valley of the Gnu
dgrid3d splines
dgrid3d Hann function
dgrid3d 30,30 qnorm 1
dgrid3d 30,30 qnorm 2
dgrid3d 30,30 qnorm 3
dgrid3d 30,30 qnorm 4
dgrid3d 30,30 qnorm 5
dgrid3d 30,30 gauss 1
dgrid3d 30,30 gauss .75
dgrid3d 30,30 gauss .5
dgrid3d 30,30 gauss .35
dgrid3d 30,30 gauss .25
dgrid3d 30,30 gauss .5,.35
dgrid3d 30,30 gauss .35,.5
How to plot a kernel density estimate for this 2D dataset?
set dgrid3d 50,50 gauss kdensity
set dgrid3d 50,50 gauss kdensity 0.1
Gnuplot Correspondences
geographic coordinate system
3D version using spherical coordinate system
3D solid version with hidden line removal
3D version using cylindrical coordinate system
Labels colored by GeV plotted in spherical coordinate system
Labels with hidden line removal
log gamma function, similarly very useful function
arcsin PDF with r = 2.0
arcsin CDF with r = 2.0
beta PDF
incomplete beta CDF
binomial PDF with n = 25, p = 0.15
binomial CDF with n = 25, p = 0.15
Cauchy PDF
Cauchy CDF
Chi-square χ² PDF

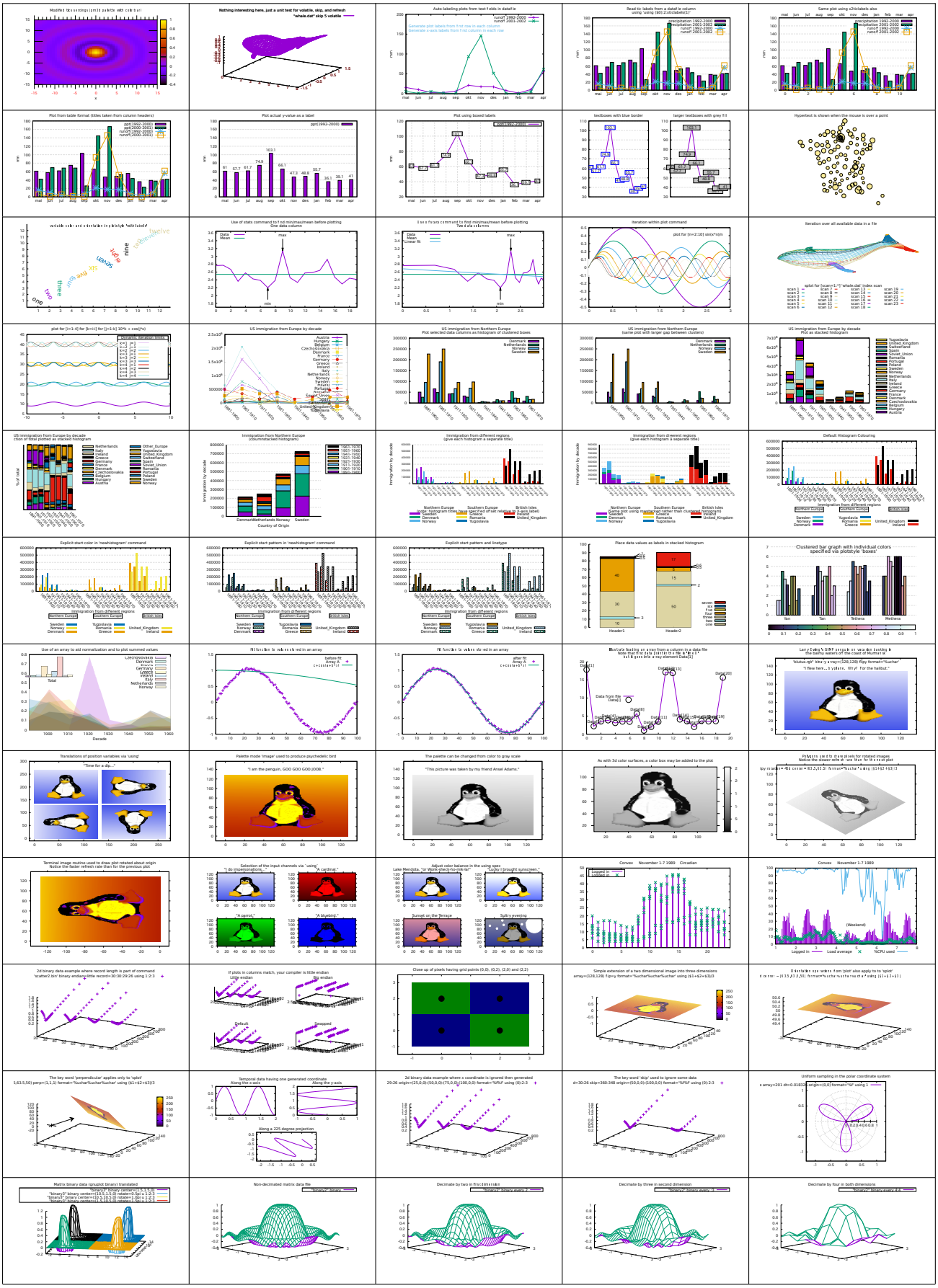

Chi-square χ^2 CDF
Erlang PDF
Erlang CDF
extreme PDF
extreme CDF
F PDF
F CDF
Gamma Γ PDF
incomplete gamma CDF
geometric PDF with p = 0.4
geometric CDF with p = 0.4
half normal PDF, σ = 1.0
half normal CDF, σ = 1.0
hypergeometric PDF with N = 75, C = 25, d = 10
hypergeometric CDF with N = 75, C = 25, d = 10
Laplace (or double exponential) PDF with μ = 0, b = 1
Laplace (or double exponential) CDF with μ = 0, b = 1
logistic PDF with a = 0, λ = 2
logistic CDF with a = 0, λ = 2
lognormal PDF with μ = 1.0, σ = 0.5
lognormal CDF with μ = 1.0, σ = 0.5
Maxwell PDF
Maxwell CDF
negative binomial (or Pascal or Polya) PDF with r = 8, p = 0.4
negative binomial (or Pascal or Polya) CDF with r = 8, p = 0.4
negative exponential (or exponential) PDF with λ = 2.0
negative exponential (or exponential) CDF with λ = 2.0
normal (also called Gauss or bell-curved) PDF
normal (also called Gauss or bell-curved) CDF
Pareto PDF with a = 1, b = 3
Pareto CDF with a = 1, b = 3
Poisson PDF with μ = 4.0
Poisson CDF with μ = 4.0
Rayleigh PDF with λ = 2.0
Rayleigh CDF with λ = 2.0
sine PDF
sine CDF
t PDF (and Gaussian limit)
t CDF (and Gaussian limit)
triangular PDF with m = 3.0, g = 2.0
triangular CDF with m = 3.0, g = 2.0
uniform PDF with a = -2.0, b = 2.0
uniform CDF with a = -2.0, b = 2.0
Weibull PDF
Weibull CDF
binomial PDF using normal approximation
binomial PDF using poisson approximation
geometric PDF using gamma approximation
geometric PDF using normal approximation
hypergeometric PDF using binomial approximation
hypergeometric PDF using normal approximation
negative binomial PDF using gamma approximation
negative binomial PDF using normal approximation
normal PDF using logistic approximation
poisson PDF using normal approximation
Lattice test for random numbers
Lattice test for random numbers
50 random samples from a 2D Gaussian PDF with unit variance, zero mean and no dependence
Histogram of 5000 random samples from a univariate Gaussian PDF with unit variance and zero mean
Histogram of distance from origin of 3000 multivariate unit variance samples

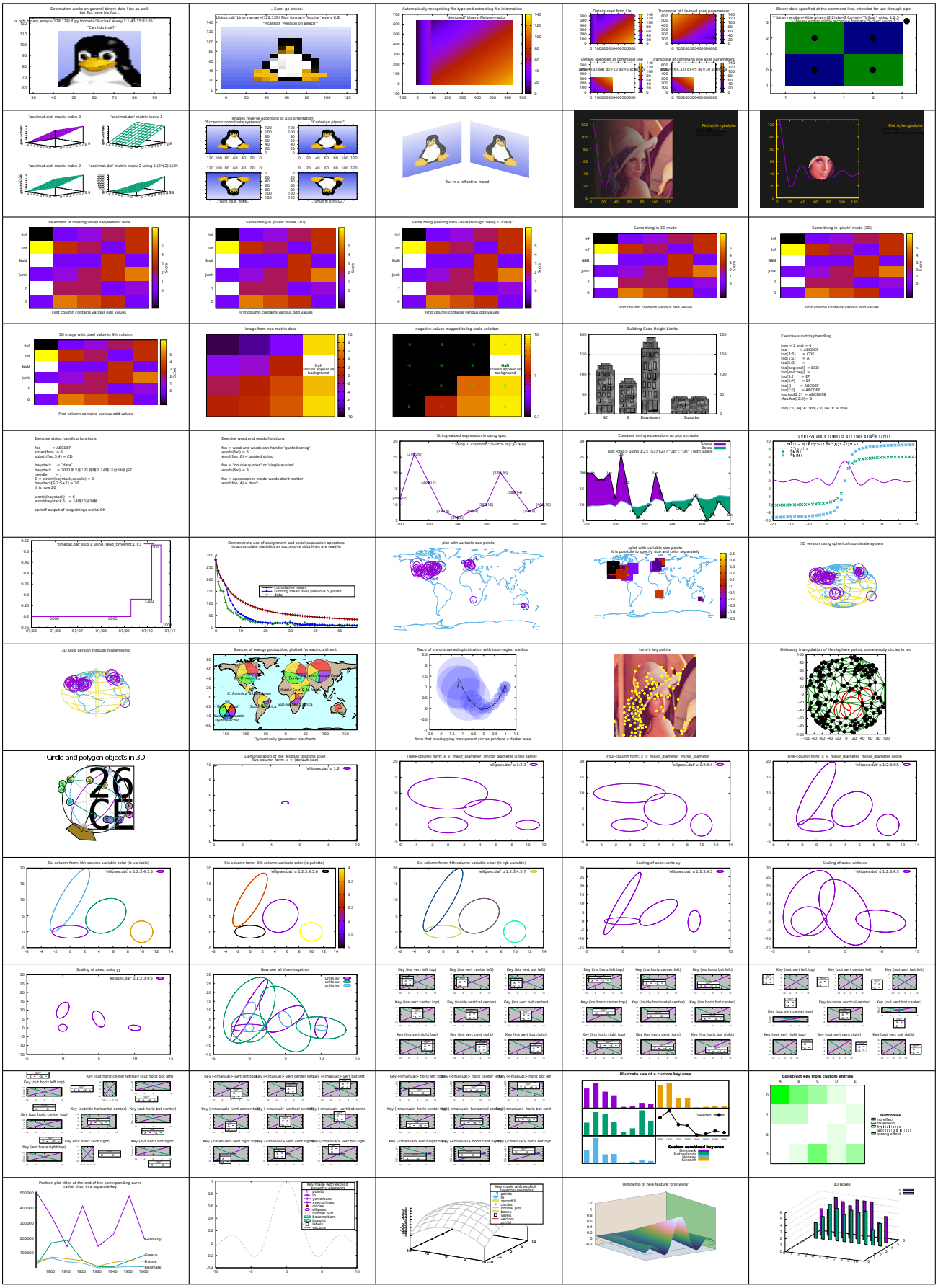

Rug Plot
Uniform Distribution
Normal Distribution
Lognormal Distribution
Mixed Distribution (Lognormal with shifted Gaussian)
The cubic Monomial basis functions
The cubic Hermite basis functions
The cubic Bezier basis functions
The cubic uniform Bspline basis functions
The cubic Bezier/Bspline basis functions in use
The cubic Hermite basis functions in use
Hidden line removal of explicit binary surfaces
Hidden line removal of explicit binary surfaces
Notice that sampling rate can change
Compare steps, fsteps and histeps
Histogram built from unsorted data by 'smooth frequency'
Histogram built from unsorted data by 'smooth frequency'
Normal Distribution Function
Inverse Error Function
Inverse Normal Distribution Function
Simple demo of scatter data conversion to grid data
Simple demo of scatter data conversion to grid data
Simple demo of scatter data conversion to grid data
Simple demo of scatter data conversion to grid data
Simple demo of scatter data conversion to grid data
Simple demo of scatter data conversion to grid data
Simple demo of scatter data conversion to grid data
Simple demo of scatter data conversion to grid data
Real part of complex square root function
Real part of complex square root function (different view)
Imaginary part of complex square root function
Imaginary part of complex square root function (different view)
Real part of complex cube root function
Real part of complex cube root function (different view)
Imaginary part of complex cube root function
Imaginary part of complex cube root function (different view)
Real part of complex 4th root function
Real part of complex 4th root function (different view)
Imaginary part of complex 4th root function
Imaginary part of complex 4th root function (different view)
Enneper's surface
Enneper's surface (different view)
Moebius strip
Moebius strip (view from opposite side)
Klein bottle
Klein bottle with look at the 'inside'
Klein bottle, glassblowers' version (look-through)
Klein bottle, glassblowers' version (solid)
NACA6409 Airfoil
NACA0012 Airfoil
Joukowski Airfoil using Complex Variables
Joukowski Airfoil using Complex Variables
Parametric Sphere
Parametric Sphere, crunched z axis
Parametric Sphere, enlarged z axis
Parametric Torus
Parametric Hexagon
Parametric Helix
Parametric Shell (clipped to limited z range)
Parametric Shell (automatic z range)

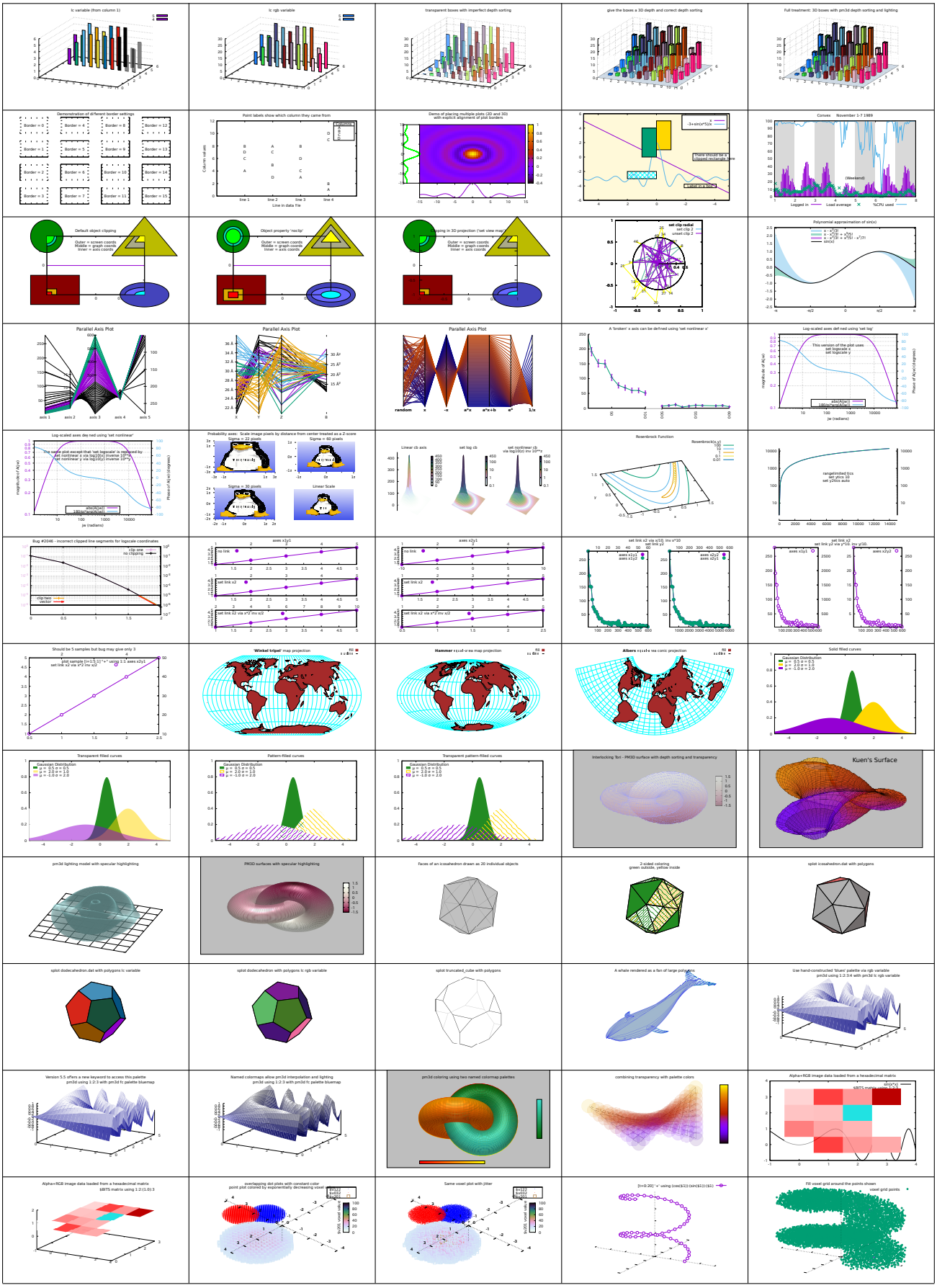

Interlocking Tori
2D projections of a 3D surface
contour plot
more contours (15 levels)
contour by increments (every 10, starting at -100)
discrete set of contours (at -75, -50, 0)
contours on base grid with labels
contours drawn on surface
contours on both base and surface
2 surfaces
some more interesting contours
low resolution (6x6)
low resolution (6x6) using cubic splines
low resolution (6x6) using bspline approx.
contour of Sinc function
contour of data grid plotting
2D contour projection of previous plot
Rosenbrock Function
All contours drawn in a single color
Sometimes it helps to use multiplot
Circle and polygon objects in 3D
approximate the integral of functions
approximate the integral of functions (upper and lower limits)
Plot of the ackermann function
Min(x,y) and Max(x,y)
Greatest Common Divisor (for integers only)
Finite summation of 10, 100, 1000 fourier coefficients
Time data on Y, millisecond precision
Simple Gantt Chart
Terminal-independent RGB colors in 2D
RGB color information read from data file
HSV coloring of pm3d surface
Explicit borders for pm3d tilting
variable color points, circles, candlesticks, boxes, and boxyerror
variable color boxerror, xyerrorbars, impulses, vectors, and labels
variable color using 'lc palette z'
variable color using 'lc rgb variable'

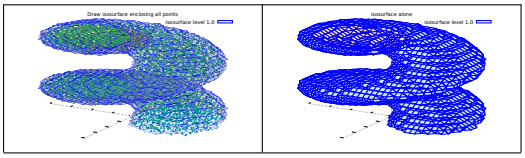










721 
Draw isosurface enclosing all points
isosurface level 1.0
isosurface alone
isosurface level 1.0
722