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#!/bin/bash
gnuplot ij EOF
# for setting the output file
set terminal postscript portrait enhanced color
set output 'globalclimate.ps'
# Graph design
set multiplot layout 4, 1 title "Global Warming is Real NO KIDDING"
#set term pngcairo font 'Sans,14' size 1024,768
set key top left
set key box
# setting up the x axis so there's a tick every 5 years
set xdata time
set timefmt "%Y"
set format x "%Y"
set xrange ['1980': '2011']
set mxtics 5
set xtics "1980",157800000,"2011"
set autoscale y
set grid
# Use pm3d to map the values to a colour.
# here i used a narrow cbrange around white, to give more vivid colours
set view map
set pm3d explicit
set cbrange [-3:3]
set palette defined (-3 "#0000FF", 0 "#FFF0F0", 3 "#FF0000")
unset colorbox
# plot the first graph so that it takes a quarter of the screen
set xzeroaxis
set title "Global Temperature, Sea Ice, CO2 Trend"
set xlabel "Year: 1980-2011"
# The last :2 specifies that the palette colour is determined by the y value
plot "dvlab5.csv" using 1:2:2 notitle with linespoints palette,
"dvlab5.csv" using 1:3 notitle with linespoints,
"dvlab5.csv" using 1:4 notitle with linespoints
# plot the second graph so that it takes a quarter of the screen
set title "CO2 Trend"
plot "dvlab5.csv" using 1:3 notitle with linespoints
# plot the third graph so that it takes a quarter of the screen

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set title "Global Temperature Trend"
set xlabel "Year"
plot "dvlab5.csv" using 1:3:3 notitle with lines palette
# plot the third graph so that it takes a quarter of the screen
set title "See ICe trend"
set xlabel "Years"
plot "dvlab5.csv" using 1:4:4 notitle with lines palette
pause -1 "Hit any key to continue: And remember Global Warming is REAL"
EOF
```