# GNUPlot Visualization - Second Viz  
# Dee and Leif  
# F/K Fall 2012  

# Export Settings  
set terminal postscript enhanced color  
set output '|' ps2pdf - plot.pdf  
set termoption enhanced  

# Site Colors  
domefuji="#000000"  
taylor="#A60000"  
vostok="#1437AD"  

set multiplot  

# Plot 1 CO2 vs. Ice Age (Zoomed)  
set title "CO2 vs. Ice Age (Range: 20000:70000)"  
set origin 0,0.5  
set size 1,0.5  
set key above  
set xrange [20000:70000]  
set xlabel 'Age (iceage yrs)'  
set ylabel 'CO2 (ppm)'  
set grid  
set datafile separator "","  
plot "domefuji.csv" using 2:5 title 'Dome Fuji' with lines lc rgb domefuji,\  "taylor.csv" using 2:3 title 'Taylor' with lines lc rgb taylor,\  "vostok.csv" using 2:4 title 'Vostok' with lines lc rgb vostok  

# Plot 2 Depth vs. Ice Age  
set title "Depth vs. Ice Age"  
set origin 0,0  
set size 0.5,0.5  
unset key  
set xrange [0:170000]  
set xtics 25000  
set xlabel 'Age (iceage yrs)'  
set ylabel 'Depth (m)'  
set grid  
set datafile separator "",  
plot "domefuji.csv" using 2:1 title 'Dome Fuji' with lines lc rgb domefuji,\  "taylor.csv" using 2:1 title 'Taylor' with lines lc rgb taylor,\  "vostok.csv" using 2:1 title 'Vostok' with lines lc rgb vostok  

# Plot 1 CO2 vs. Ice Age  
set title "CO2 vs. Ice Age"  
set origin 0.5,0
set size 0.5,0.5
unset key
set xlabel 'Age (iceage yrs)'
set ylabel 'CO2 (ppm)'
set grid
set datafile separator "",
plot "domefuji.csv" using 2:5 title 'Dome Fuji' with lines lc rgb domefuji,\ 
"taylor.csv" using 2:3 title 'Taylor' with lines lc rgb taylor,\ 
"vostok.csv" using 2:4 title 'Vostok' with lines lc rgb vostok
unset multiplot
reset