

Plot in a plot

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June 7, 2015

Abstract

This is a GNU-Octave script. It produces a zoomed "inset" into the plot of a function.

The source code

```
clear
clc()
c=[3 2 1];
x=[-5:0.1:5];
f=polyval(c,x);
# first the main plot
subplot(1,1,1);
plot(x,f,"linewidth",3);grid minor
set(gca,"xlim",[min(x),max(x)],"ylim",[min(f),max(f)])
set(gca,"xlabel",text("string","Independant variable","fontsize",15))
set(gca,"ylabel",text("string","Dependant variable","fontsize",15))
legend("Original plot")
# hereafter the inset graph begins 0.35 is the proportion of inset
# w.r.t. the main plot
axes("position",[0.35 0.35 0.35 0.35])
x_1=[0:0.1:2];
c_1=c;
f_1=polyval(c_1,x_1);
plot(x_1,f_1,"color","red","linewidth",3);
# xtick and ytick used for specific markings on x and y axes
#set(gca,"xtick",[0.5 0.75 1 1.6 1.9]);
grid on
legend("Zoomed plot");
#convert the full plot into png image format.
print("inset.png","-dpng");
```

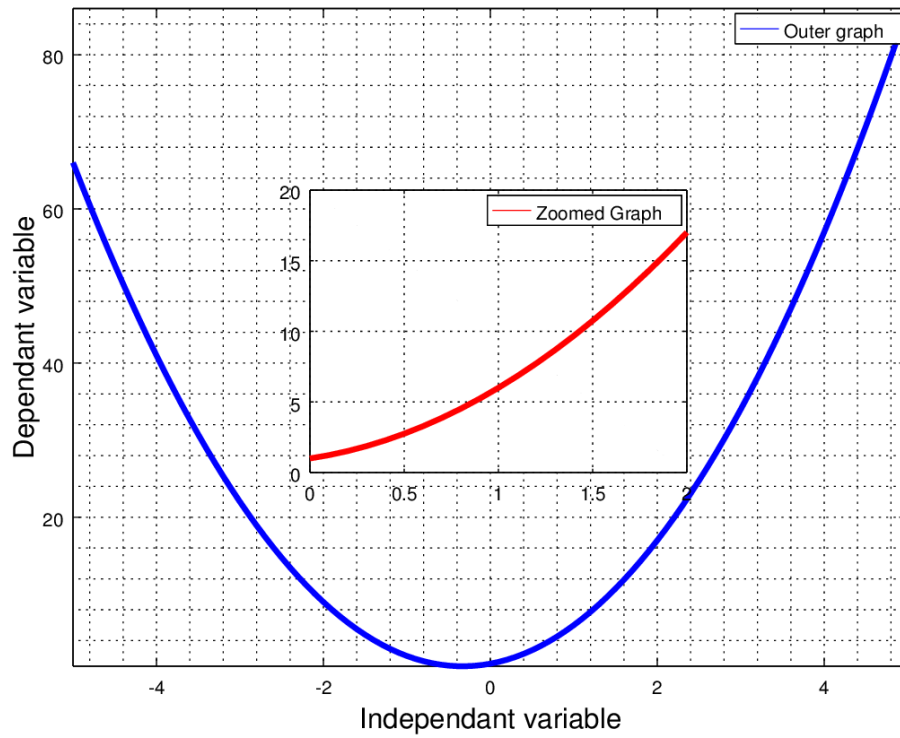


Figure 1: Plot Inset

The output

After running this script, you get the output in figure 1.