

MATLAB example to plot a 2D figure:

1. Please copy the following code into a *.m file in MATLAB:

```
% The start of the code:
close all
FigureWidth=3.3; %inches; this is used to control the figure width
position=3; %inches
Proportion=0.65;
AxisLineWidth=1.3;
LableFontSize=9; % this is used to control the font size
% 4 barriers and 3 barriers comparison
figure;

x=0:0.01:360;
y1=sind(x);
y2=cosd(x);

plot(x,y1,'b-', 'linewidth',2)
hold on
plot(x,y2,'r-.', 'linewidth',2)

xlabel('x [deg]')
ylabel('y')
title(' ')

legend('sin(x)', 'cos(x)', 'best');
h=legend;
set(h, 'edgecolor', 'white');

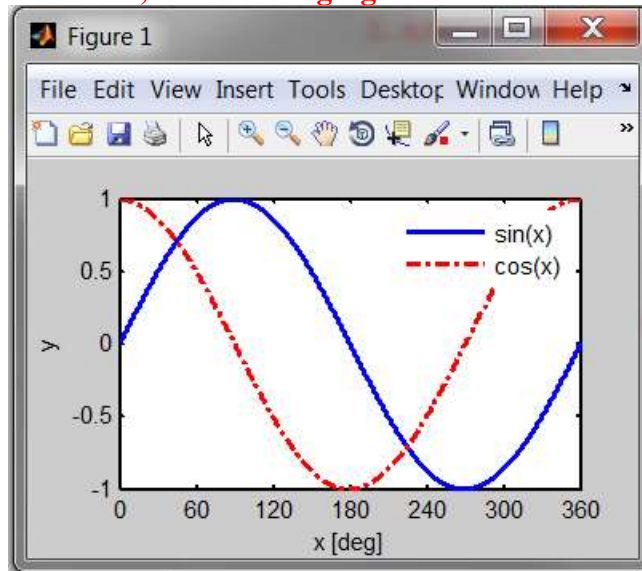
% ylim([-0.8 -0.5]);
xlim([0 360]);
set(gca, 'xtick', [0:60:360]);

box on
grid off

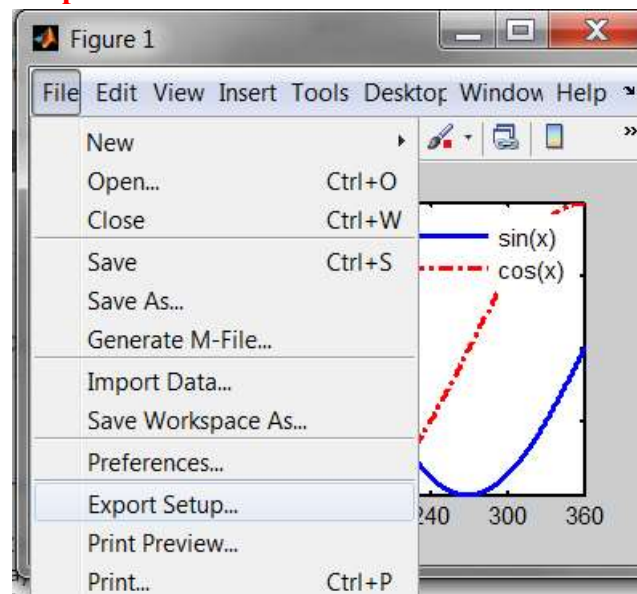
set(gca, 'FontSize', LableFontSize, 'LineWidth', AxisLineWidth)
set(get(gca, 'xlabel'), 'fontsize', LableFontSize)
set(get(gca, 'ylabel'), 'fontsize', LableFontSize)
set(gcf, 'Units',
'inches'); set(gcf, 'Position', [position, position, FigureWidth, FigureWidth*Proportion])

% The end of the code.
```

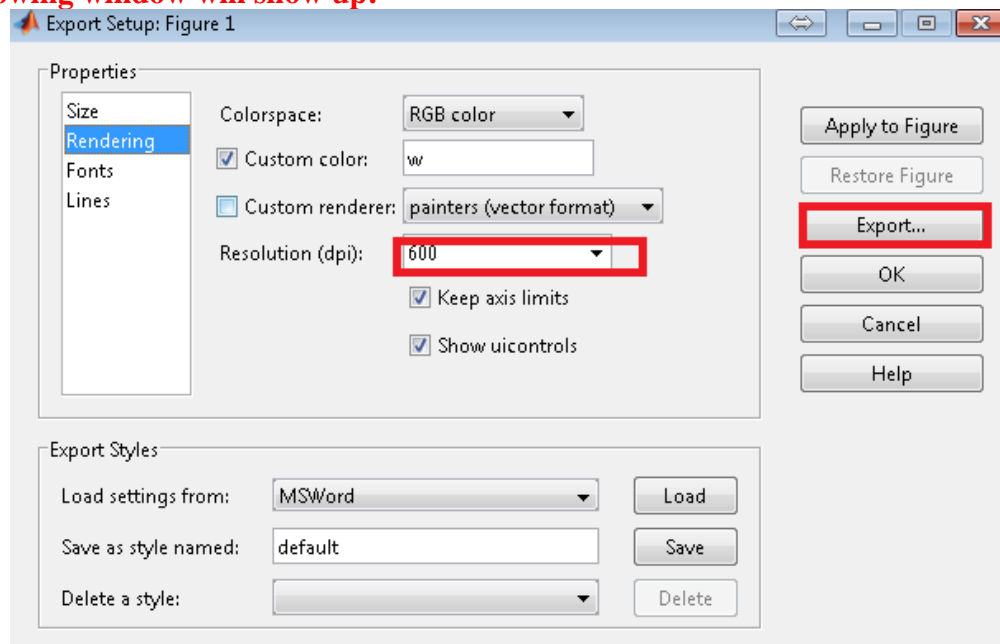
2. After running the above code, the following figure can be obtained:



3. Click "File/Export Setup" as follows:



The following window will show up:



Select “Rendering”, change “Resolution” to “600”, and then Click “Export”.

4. Choose the format of “tiff” to export the figure, and the following figure with tiff format can be obtained:

