

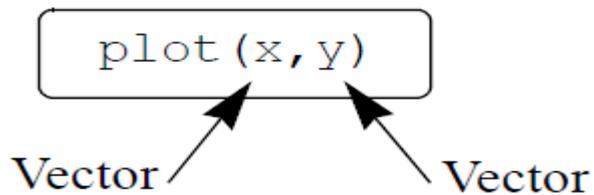
Plotting Commands

MATLAB provides numerous commands for plotting graphs. The following table shows some of the commonly used commands for plotting:

Command	Purpose
axis	Sets axis limits.
fplot	Intelligent plotting of functions.
grid	Displays gridlines.
plot	Generates xy plot.
print	Prints plot or saves plot to a file.
title	Puts text at top of plot.
xlabel	Adds text label to x-axis.
ylabel	Adds text label to y-axis.
axes	Creates axes objects.

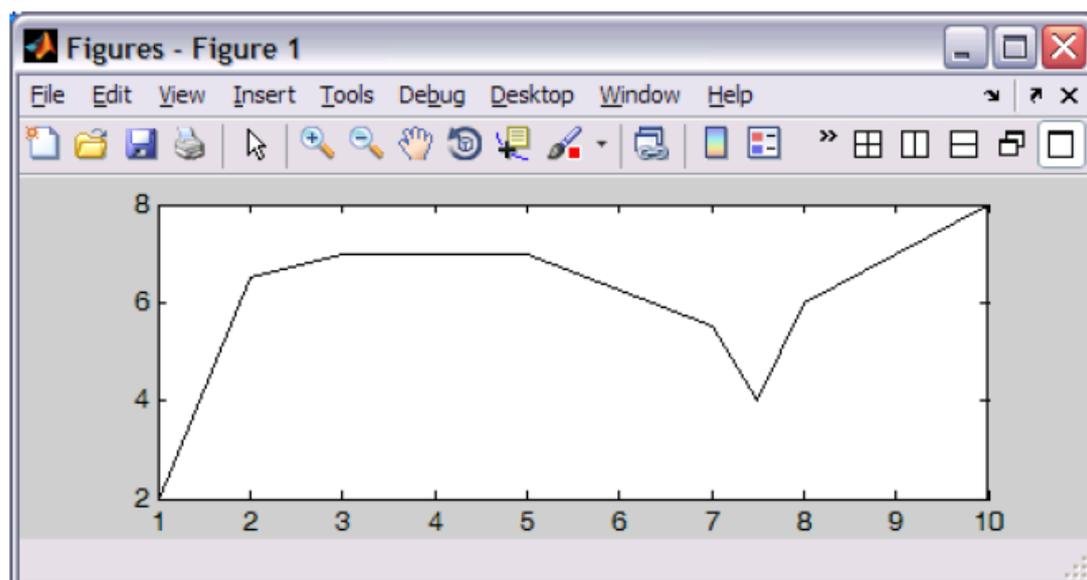
close	Closes the current plot.
close all	Closes all plots.
figure	Opens a new figure window.
gtext	Enables label placement by mouse.
hold	Freezes current plot.
legend	Legend placement by mouse.
refresh	Redraws current figure window.
set	Specifies properties of objects such as axes.
subplot	Creates plots in sub windows.
text	Places string in figure.
bar	Creates bar chart.
loglog	Creates log-log plot.
polar	Creates polar plot.
semilogx	Creates semi log plot. (logarithmic abscissa).
semilogy	Creates semi log plot. (logarithmic ordinate).
stairs	Creates stairs plot.
stem	Creates stem plot.

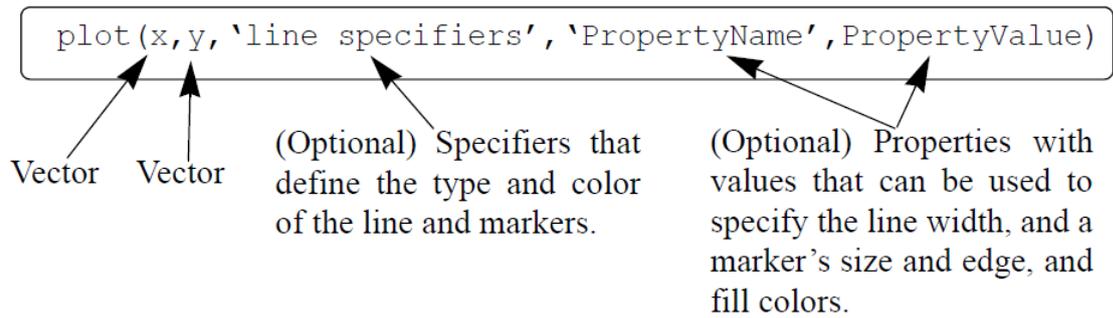
The simplest form is:



Example:

```
>> x=[1 2 3 5 7 7.5 8 10];  
>> y=[2 6.5 7 7 5.5 4 6 8];  
>> plot(x,y)
```





Line Style	Specifier
solid (default)	-
dashed	--

Line Style	Specifier
dotted	:
dash-dot	-.

Line Color	Specifier
red	r
green	g
blue	b
cyan	c

Line Color	Specifier
magenta	m
yellow	y
black	k
white	w

Marker Type	Specifier	Marker Type	Specifier
plus sign	+	square	s
circle	o	diamond	d
asterisk	*	five-pointed star	p
point	.	six-pointed star	h
cross	x	triangle (pointed left)	<
triangle (pointed up)	^	triangle (pointed right)	>
triangle (pointed down)	v		

Some examples:

- `plot(x,y)` A blue solid line connects the points with no markers (default).
- `plot(x,y,'r')` A red solid line connects the points.
- `plot(x,y,'--y')` A yellow dashed line connects the points.
- `plot(x,y,'*')` The points are marked with * (no line between the points).
- `plot(x,y,'g:d')` A green dotted line connects the points that are marked with diamond markers.

Example:

```
>> yr=[1988:1:1994];  
>> sle=[8 12 20 22 18 24 27];  
>> plot(yr,sle,'--r*', 'linewidth',2, 'markersize',12)  
>>
```

Line Specifiers:
dashed red line and
asterisk marker.

Property Name and Property Value:
the line width is 2 points and the marker
size is 12 points.

