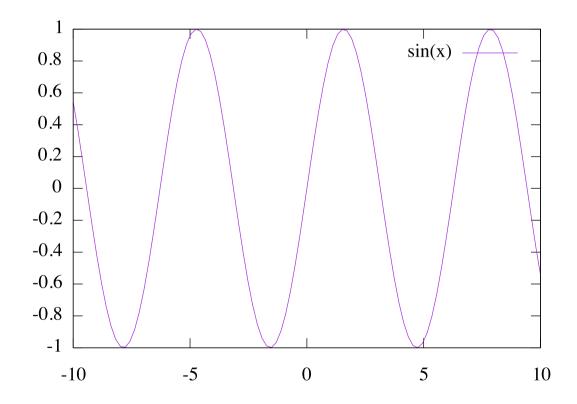


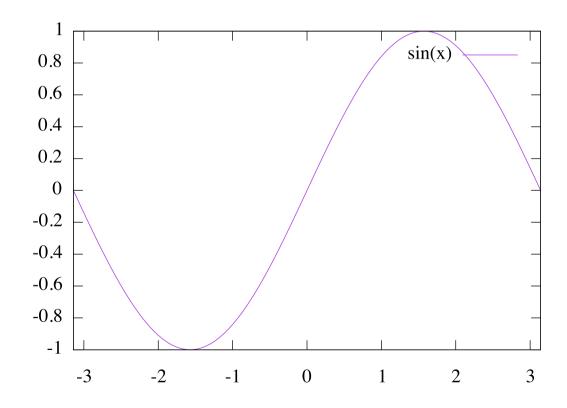
How to plot a function?

• gnuplot> plot sin(x)



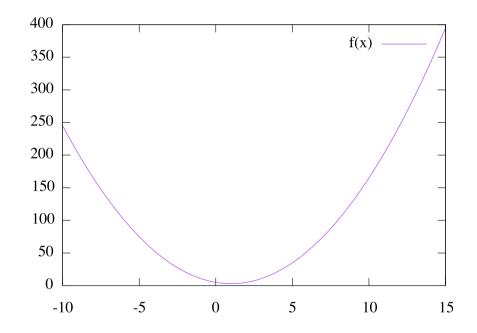
How to define the limit of a function?

plot [-pi:pi] sin(x)



How to plot a function?

- gnuplot> f(x) = 2*x**2 4*x + 5
- gnuplot> plot [x=-10:15] f(x)



How to plot from a file?

data1.dat

```
# month gracilaria eucheuma gelidium sargassum
```

1 3 2 2 2

2 5 3 4 4

3 7 6 7 7

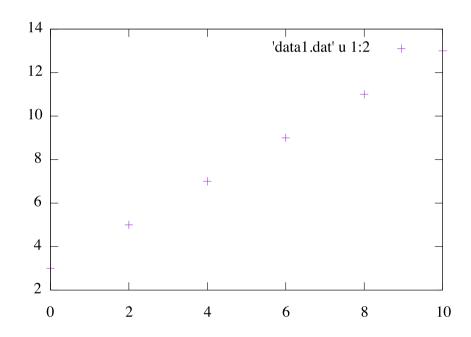
4 9 8 9 9

5 11 12 10 10

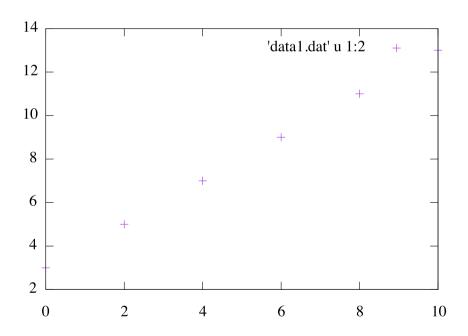
6 13 14 13 14

How to plot from a file?

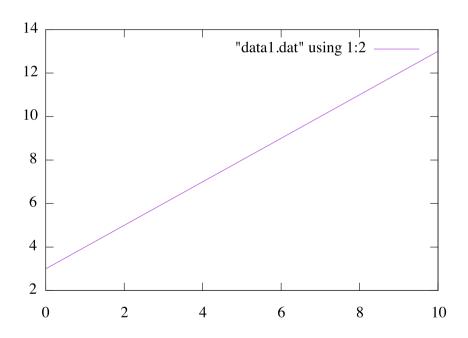
• gnuplot> plot "data1.dat" using 1:2



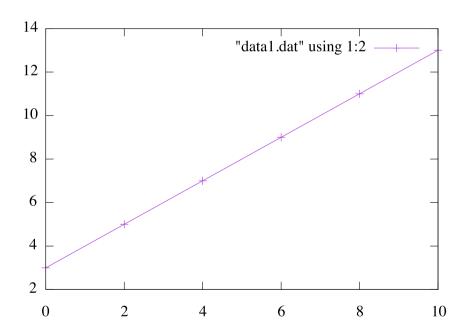
• gnuplot> plot "data1.dat" using 1:2 with points



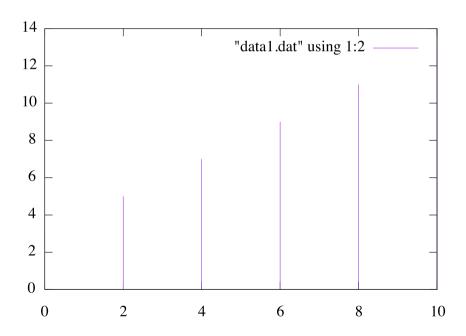
• gnuplot> plot "data1.dat" using 1:2 with lines



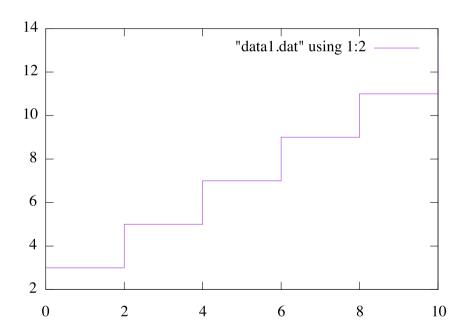
• gnuplot> plot "data1.dat" using 1:2 with linespoints



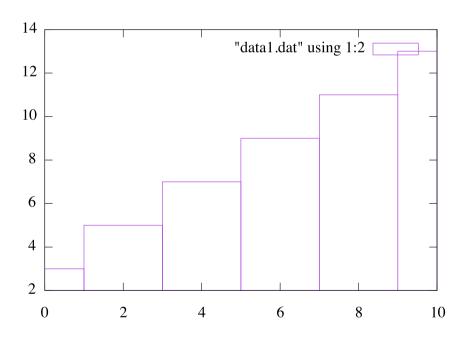
• gnuplot> plot "data1.dat" using 1:2 with impulses



• gnuplot> plot "data1.dat" using 1:2 with steps

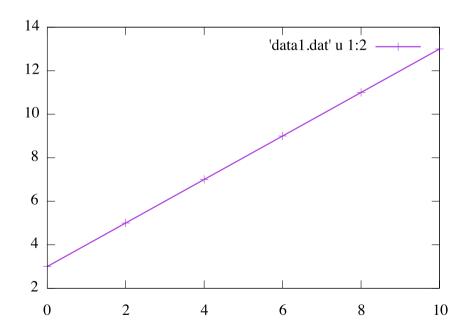


• gnuplot> plot "data1.dat" using 1:2 with boxes



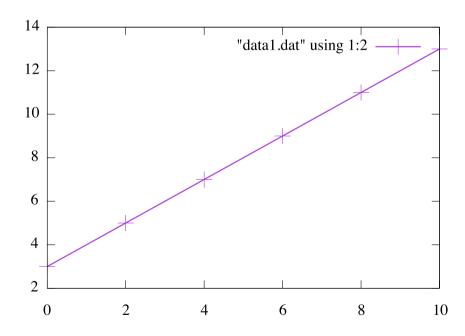
How to change the width of lines?

• gnuplot> plot "data1.dat" using 1:2 with linespoints linewidth 2



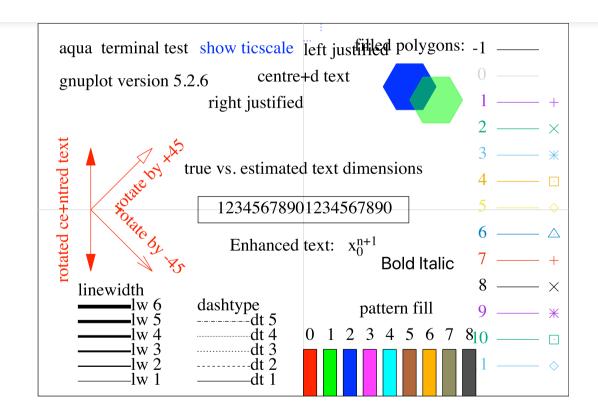
How to change the size of points?

• gnuplot> plot "data1.dat" using 1:2 with linespoints linewidth 2 pointsize 2



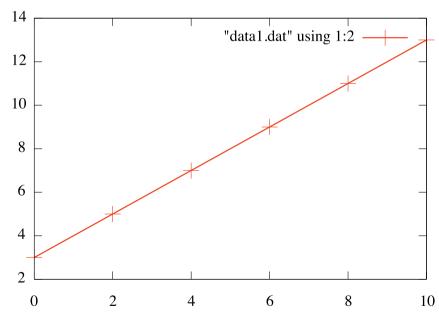
Style reference

• gnuplot> test



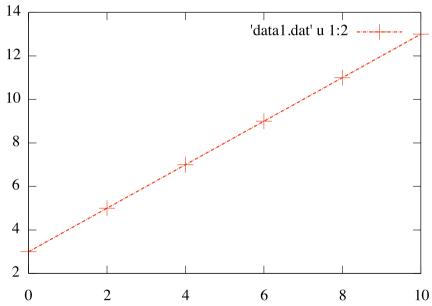
How to change the color of lines?

gnuplot> plot "data1.dat" using 1:2 with linespoints linecolor 7 linewidth 2 pointsize 2



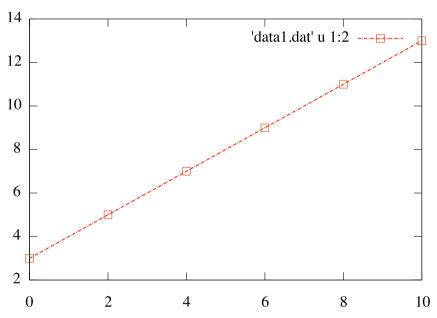
How to change the dashtype?

• gnuplot> plot "data1.dat" using 1:2 with linespoints linecolor 7 dashtype 5 linewidth 2 pointsize 2



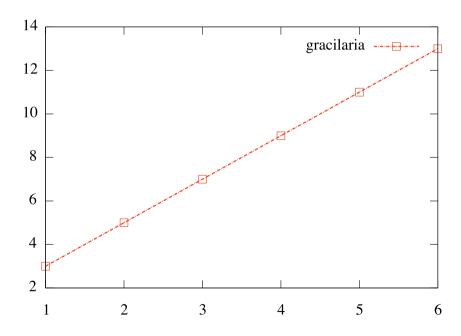
How to change the point type?

• gnuplot> plot "data1.dat" using 1:2 with linespoints linecolor 7 dashtype 5 linewidth 2 pointsize 1 pointtype 4



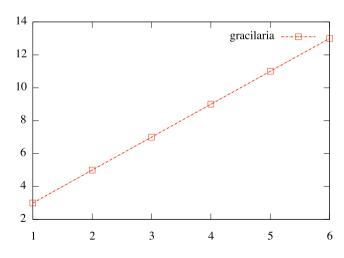
How to change the legend name?

• gnuplot> plot "data1.dat" using 1:2 with linespoints linecolor 7 dashtype 5 linewidth 2 pointsize 1 pointtype 4 title "gracilaria"



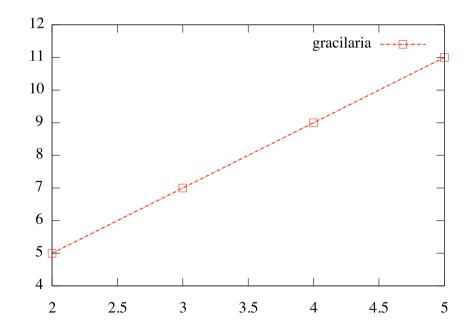
Write in compact style

- gnuplot> plot "data1.dat" using 1:2 with linespoints linecolor 7 dashtype 5 linewidth 2 pointsize 1 pointtype 4 title "gracilaria"
- gnuplot> p [2:8] [4:12] "data1.dat" u 1:2 w lp lc 7 dt 5 lw 2 ps 1 pt 4 t" gracilaria"



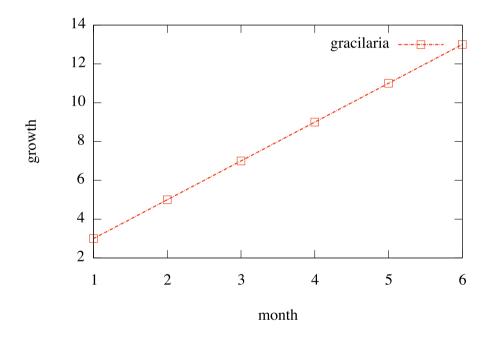
How to change the limit of axis?

- gnuplot> set xrange [2:5]
- gnuplot> set yrange [4:12]
- gnuplot> replot



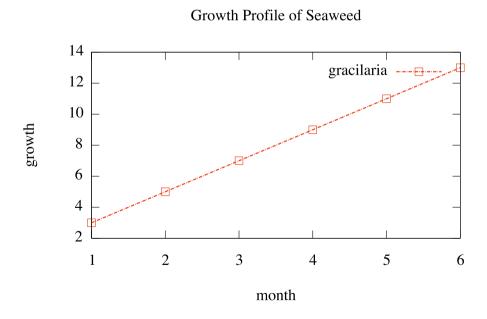
How to give the axis label?

- gnuplot> set xlabel "month"
- gnuplot> set ylabel "growth"
- gnuplot> replot



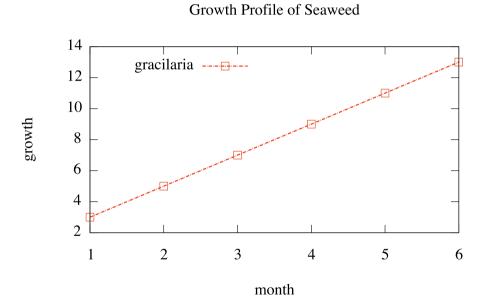
How to give a title?

- gnuplot> set title "Growth Profile of Seaweed"
- gnuplot> replot



How to change the legend position?

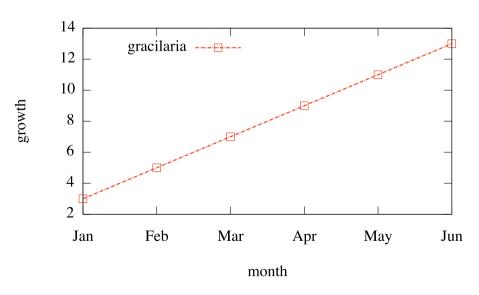
- gnuplot> set key left top
- gnuplot> replot



How to change the tics label?

- gnuplot> set xtics ("Jan" 1, "Feb" 2, "Mar" 3, "Apr" 4, "May" 5, "Jun" 6)
- gnuplot> replot

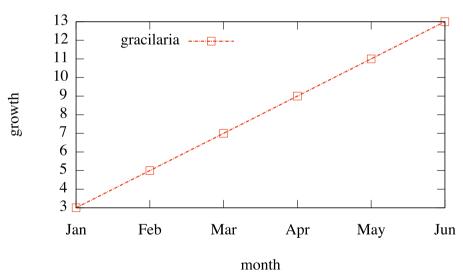
Growth Profile of Seaweed



How to change the tics interval?

- gnuplot> set ytics 3,1,13
- gnuplot> replot

Growth Profile of Seaweed



How to plot by using script?

plot.plt

plot "data1.dat" using 1:2 with linespoints linecolor 7
dashtype 5 linewidth 2 pointsize 1 pointtype 4 title
"gracilaria"

```
set xlabel "month"
set ylabel "growth"
set title "Growth Profile of Seaweed"
set key left top
set xtics ("Jan" 1, "Feb" 2, "Mar" 3, "Apr" 4, "May" 5, "Jun" 6)
set ytics 3,1,13
replot
```

\$ gnuplot plot.plt

