

Graph

COLLABORATORS						
	TITLE :					
ACTION	NAME	DATE	SIGNATURE			
WRITTEN BY		August 26, 2022				

	REVISION HISTORY							
E DESCRIPTION	NAME							
	E DESCRIPTION							

Graph

Contents

	C						
1	Gra	Graph					
	1.1	Graph Class implementation for AmigaTalk© 1998-2000:					

Graph 1 / 2

Chapter 1

Graph

1.1 Graph Class implementation for AmigaTalk© 1998-2000:

```
The Graph Class is a class that uses an Amiga Window to display graphs of functions for the AmigaTalk system.

Its parent Class is Painter.

A programmer should use the following as a guide:
g <- Graph new
g initialize: 'graph Screen' winTitle: 'graph Window:'
g open: 16r40D20001 from: 0@0 to: 640@480
...
g close (see AmigaTalk:TestFiles/TestGraphPaper)

Methods available for the Graph Class are:
initialize: scrTitle winTitle: title

Set up the instance variables for a new instance of Graph.
setSizeFrom: orPoint to: brtPoint
Internal method (used by open:from:to:), so it's not really necessary
```

size of your graph (that means YOU get to re-write this class!). open: screenMode from: oPoint to: brPoint

Opens the Screen & Window for your graph, using the screenMode to

to use this method in your programs, unless you want to change the

determine the type of Screen to use.

refreshGraphPaper

Used to refresh the edges of the Window (if you use a border, default

is NO border).

setPen: pen

Change the color used to draw graphic elements.

setXAxisFrom: xmin to: xmax by: deltax

Graph 2/2

Set the range, x-increment size & (indirectly) the xscale.

setYAxisFrom: ymin to: ymax by: deltay

Set the domain, y-increment size & (indirectly) the yscale.

plotPoint: xpt y: ypt

Put a pixel (in the current pen color) at the coordinates specified.

drawLine: x1 y1: y1 x2: x2 y2: y2

Draw a line (in the current pen color) from one set of coordinates

to the next (x2,y2). drawXTick: xp y: yp

Internal method called by drawXAxis:numTicks:color:

drawYTick: xp y: yp

Internal method called by drawYAxis:numTicks:color:

drawGrid: xticks y: yticks color: pen

Draw a grid of lines (in order to make point finding easier).

drawXAxis: y0 numTicks: nticks color: pen

Draw an X-Axis across the Graph (one side of the Window to the other).

drawYAxis: x0 numTicks: nticks color: pen

Draw an Y-Axis vertically across the Graph (from Top of the Window

to the Bottom).

drawLabel: labelstr at: aPoint

Draw a String starting at the location specified.

tellScales

Print a String in the Status Window, indicating what the current

values for xscale & yscale aare.

tellRange

Print a String in the Status Window, indicating what the current

value for the range (x-values) of the Graph is.

tellDomain

Print a String in the Status Window, indicating what the current

value for the domain (y-values) of the Graph is.

xScale

Return the value of xscale.

yScale

Return the value of yscale.

range

Return the current range as a String.

domain

Return the current domain as a String.

close

Close the Graph's Window & Screen.