Keyword Reference

Keyword	Arguments	Description
Structure		
deck		Begin a deck; end with "edeck"
def	name args...	Define a function; end with "edef"
for	x=begin end [increment]	Begin loop; end with "efor"
if	condition...[else]...eif	Conditional; one of: a==b, a!=b, a>b, a<b, a>=b, a<=b, a<>b c
import	"file"	import function found in a file
include	"file"	Include the contents of a file
slide	[bgcolor] [fgcolor]	Begin a slide; end with "eslide"
edeck		End the deck
edef		End the defintion
efor		End the for loop
eif		End the conditional
else		Begin the else clause
Utility		
canvas	width height	Define with dimensions of the canvas
content	"scheme://file"	Embed content
dump	[name]	Dump variables
grid	"file" x y hspace vspace edge	Define a content grid
ruler	[increment] [color]	draw a (x,y) ruler
Graphics		
acircle	x y w [color] [opacity]	Circle with sized based on area
arc	x y w h a1 a2 [lw] [color] [opacity]	Ellipical arc centered at (x,y), dimensions (w,h) between angles a1 and a2
circle	x y w [color] [opacity]	Circle centered at (x,y), diameter w
curve	bx by cx cy ex ey [lw] [color] [opacity]	Quadradic Bezier Curve begin (bx,by), control (cx, cy), end (ex,ey)
ellipse	x y w h [color] [opacity]	Ellipse centered at (x,y), dimension (w,h)
hline	x y w [lw] [color] [opacity]	Horizontal line begin at (x,y), length w
line	x1 y1 x2 y2 [lw] [color] [opacity]	Line between (x1,y1) and (x2,y2)
pill	x y w h [color]	Pill shape beginning at (x,y), dimensions (w,h)
polygon	"x1 x2 x3...." "y1 y2 y3..." [color] [opacity]	Polygon with specified x, y coordinates
polyline	"x1 x2 x3...." "y1 y2 y3..." [lw] [color] [opacity]	Polyline with specified x, y coordinates
rect	x y w h [color] [opacity]	Rectangle centered at (x,y), dimensions (w,h)
rrect	x y w h r [color] [opacity]	Rounded rectangle centered at (x,y), dimensions (w,h), corner radius r
square	x y w [color] [opacity]	Square centered at (x,y), size w
star	x y sides inner outer [color] [opacity]	Star centered at (x,y), with sides, innner and outer sizes
vline	x y h [lw] [color] [opacity]	Vertical line beginning at (x,y), h high

Keyword	Arguments	Description
Text		
arctext	"string" x y radius a1 a2 fontsize [font] [color] [opacity] [link]	Text on an arc, at fontsize, center (x,y), radius r, between a1. a2
btext	"string" x y fontsize [font] [color] [opacity] [link]	Text beginning at (x,y), at fontsize
ctext	"string" x y fontsize [font] [color] [opacity] [link]	Centered text beginning at (x,y), at fontsize
etext	"string" x y fontsize [font] [color] [opacity] [link]	End-aligned text at (x,y), at fontsize
rtext	"string" x y angle fontsize [font] [color] [opacity] [link]	Rotated text centered at x,y), at angle and fontsize
text	"string" x y fontsize [font] [color] [opacity] [link]	Text beginning at (x,y), at fontsize
textblock	"string" x y w fontsize [font] [color] [opacity] [link]	Block of text beginning at (x,y), at fontsize, with width w
textblockfile	"file" x y w fontsize [font] [color] [opacity] [link]	Block of text read for a file, beginning at (x,y), at fontsize, with width w
textcode	"file" x y w fontsize [font] [color] [opacity]	Lines of code, read from a file, upper right corner at (x,y), margin at w
textfile	"file" x y fontsize [font] [color] [opacity] [spacing]	Contents of a text file pper right corner at (x,y)
Lists		
blist	x y fontsize [font] [color] [opacity] [spacing]	Bulleted list starting at (x,y), at fontsize
clist	x y fontsize [font] [color] [opacity] [spacing]	Centered list starting at (x,y), at fontsize
list	x y fontsize [font] [color] [opacity] [spacing]	List starting at (x,y), at fontsize
nlist	x y fontsize [font] [color] [opacity] [spacing]	Numbered list starting at (x,y), at fontsize
li	"item" [font] [color] [opacity]	List item
elist		End the list
Images		
cimage	"file" "caption" x y w h [scale] [link] capsize	Captioned image; center (x,y), dimensions (w,h) (h=0, w is % of canvas width)
image	"file" x y w h [scale] [link]	Image center at (x,y), dimensions (w,h) (h=0, w is % of canvas width)
Braces/ Brackets		
dbrace	x y w bw bh [lw] [color] [opacity]	Downward pointing brace
dbracket	x y w h [lw] [color] [opacity]	Downward pointing bracket
lbrace	x y h bw bh [lw] [color] [opacity]	Left pointing brace
lbracket	x y w h [lw] [color] [opacity]	Left pointing bracket
rbrace	x y h bw bh [lw] [color] [opacity]	Right pointing brace
rbracket	x y w h [lw] [color] [opacity]	Right pointing bracket
ubrace	x y w bw bh [lw] [color] [opacity]	Upward facing brace
ubracket	x y w h [lw] [color] [opacity]	Upward facing bracket

	Keyword	Arguments	Description
Arrows	arrow	x1 y1 x2 y2 [lw] [aw] [ah] [color] [opacity]	Arrow starting at (x1,y1), ending at (x2,y2), aw=width, ah=height
	dcarrow	bx by bx xy ex ey [lw] [aw] [ah] [color] [opacity]	Downward curved arrow; curve specified by (bx,by), (cx,cy), (ex,ey)
	lcarrow	bx by bx xy ex ey [lw] [aw] [ah] [color] [opacity]	Left curved arrow; curve specified by (bx,by), (cx,cy), (ex,ey)
	rcarrow	bx by bx xy ex ey [lw] [aw] [ah] [color] [opacity]	Right curved arrow; curve specified by (bx,by), (cx,cy), (ex,ey)
	ucarrow	bx by bx xy ex ey [lw] [aw] [ah] [color] [opacity]	Upward curved arrow; curve specified by (bx,by), (cx,cy), (ex,ey)
Charts	dchart	options...	Chart with specified options
	legend	"string" x y fontsize font color	Chart legend
Built-ins	x=area	expression	Assign an area
	x=format	"fmt" expr... (up to 5)	Assign formatting to expressions
	x=polar	x y radius angle	Assign polar coordinate centered at (x,y) at radius and angle (0-360)
	x=polarx	x y radius angle	Assign X-polar coordinate centered at (x,y) at radius and angle (0-360)
	x=polary	x y radius angle	Assign Y-polar coordinate centered at (x,y) at radius and angle (0-360)
	x=random	min max	Assign a random number between two values
	x=substr	"string" begin end	Assign a substring
	x=vmap	data min1 max1 min2 max2	Assign a value mapped to two ranges
Math	x=cosine	expression	Assign the cosine of expression
	x=sine	expression	sasign the sine of expression
	x=sqrt	expression	Assign the square root of expression
	x=tangent	expression	Assign the tangent of expression
Geographic	geoarc	"p1" "p2" [lw] [color] [opacity]	Draw arcs between points
	geoborder	"file" [lw] [color] [opacity]	Reads KML data from the specified file and renders the map borders
	geoimage	"loc" width height	Place an image at a geographical location
	geolabel	"loc" [size] [font] [color] [opacity]	Reads data from the specified file or location and renders the map labels
	geoloc	"loc" [align] [size] [font] [color] [opacity]	Reads data from the specified file or location and a make map point and labels
	geomark	"loc" [size] [color] [opacity]	Reads data from the specified file or location and renders map points
	geopath	"p1" "p2" [lw] [color] [opacity]	Draw line between points
	geopathfile	"file" [lw] [color] [opacity]	Reads data from the specified file and a make lines between points
	georegion	"file" [color] [opacity]	Reads KML data from the specified file and renders the map regions