Graphics Command Queue

g2 Cheat Sheet

Creating g2 object

Constructor call	Returns
g2([Optional] object arguments)	<i>g</i> 2
Optional Properties of arguments	Comment
object zoom: float scl, float x, float y	Initial zoom
object pan: float dx, float dy	Initial pan
object trf: float x, float y, float scl	Initial transform
bool cartesian	Cartesian coordinates
object zoom: float scl, float x, float y object pan: float dx, float dy object trf: float x, float y, float scl	Initial zoom Initial pan Initial transform

Path commands (@returns g2)

Command	Canvas / Comment	
p()	beginPath()	
m(float x, float y)	moveTo()	
I(float x, float y)	lineTo()	
q(float x1, float x2, float x, float y)	quadraticCurveTo()	
c(float x1, float y1, float x2, float y2,	bezierCurveTo()	
float x, float y)		
z()	closePath()	
a(float dw, float x, float y)	Arc command	

Rendering commands (@returns g2)

Command Canvas / Com	
stroke([Optional] object p)	stroke()
fill([Optional] object p)	fill()
drw([Optional] object p)	stroke() and fill()
cir()	Clear Canvas
grid([Optional] string color, float size)	Show grid

Managing commands

Returns	Command	Comment
g2	cpy(object g)	Copy command queue
g2	del()	Delete commands
string	dump([Optional] string space)	Show command queue
g2	exe(object ctx, [Optional] object g)	Execute / Render

Style commands (@returns g2)

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style(object	argun	nents'

Properties	of	arguments	object
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Properties of arguments object				
Name	Alternative	Type		
fs	fillStyle	string		
ls	strokeStyle	string		
lw	lineWidth	float		
lc	lineCap	string		
Values:	"butt", "round", "square"			
lj	lineJoin	string		
Values:	"round", "bevel", "miter"			
ml	miterLimit	float		
ld	lineDash	array		
lo	lineDashOffset	int		
lm	lineMode	string		
Values:	"normal"			
shx	shadowOffsetX	float		
shy	shadowOffsetY	float		
shb	shadowBlur	float		
shc	shadowColor	string		
thal	textAlign	string		
Values:	"start", "end", "left", "right", "center"			
tval	textBaseline	string		
Values:	"top", "hanging", "middle",			
	"alphabetic", "ideographic",			
	"bottom"			
fof	fontFamily	string		
foz	fontSize	float		
foc	fontColor	string		
fow	fontWeight	string		
fos	fontStyle	string		
foznosc	fontSizeNonScalable	bool		
lwnosc	lineWidthNonScalable	bool		

Element commands (@returns g2)

Command	Canvas / Comment
lin(float x1, float y1, float x2, float y2)	Draw line
rec(float x, float y, float b, float h)	Draw rectangle
cir(float x, float y, float r)	Draw circle
arc(float x, float y, float r,	Draw arc
float w, float dw)	
ply(array parr, [Optional] bool closed)	Draw polygon
txt(string s, float x, float y, float maxWidth)	fillText()
img(string uri, [Optional]	Draw image
float x , float y , float b , float h ,	
float xoff , float yoff ,	
float dx, float dy)	

Structuring commands (@returns g2)

Command	Comment
beg([Optional] float x, float y,	Begin subcommands
float w, float scl)	
end()	End subcommands
use(object g, [Optional] float x, float y,	Referencing external g2
float w float scl)	

Viewport commands

Returns	Command	Comment
g2	cartesian()	Cartesian coordinates
g2	pan(float dx, float dy)	Pan viewport
g2	zoom(float scl,	Zoom viewport
	[Optional] float x, float y)	
g2	trf(float x, float y, float scl)	Transform viewport
object	pntToUsr(float x, float y, float h)	Point to User {x, y}
object	vecToUsr(float x, float y)	Vector to User {x, y}