

/\*

JGSL Tutorial

\*/

begin

DOC ""

DOC "Command: canvas"

DOC ""

DOC "The command canvas creates a canvas with the specified width and height and the background and foreground colors."

DOC "The canvas can only be initized once"

DOC ""

DOC " canvas (width,height, background\_color, foreground\_color);"

DOC " width - number representing the width of the canvas"

DOC " height - number representing the height of the canvas"

DOC " background\_color - One of the default colors or a declared &lt;color&gt;"

DOC " foreground\_color - One of the default colors or a declared &lt;color&gt;"

DOC " title - Title of the script (optional - defaults to 'JGSL Viewer')"

DOC ""

canvas (640,480,BLACK,WHITE,"All Commands");

DOC ""

DOC "Command: clear"

DOC ""

DOC "Clear the canvas"

DOC ""

DOC " clear;"

clear;

DOC ""

DOC "Command: draw"

DOC ""

DOC "Draw a single point on the canvas"

DOC ""

DOC " draw (x,y);"

DOC " x - x-coordinate of point"

DOC " y - y-coordinate of point"

DOC ""

draw (100,100);

wait(2);

clear;

DOC ""

DOC "Command: text"

DOC ""

DOC "Draw text on the canvas"

DOC ""

DOC " text (x,y, message);"

DOC " x - x-coordinate of the start of the text"

DOC " y - y-coordinate of the start of the text"

DOC " message - text to draw on canvas"

DOC ""

text (25, 100, "This is a text string");

wait(2);

clear;

DOC ""

DOC "Command: rectangle"

DOC ""

DOC "Draw a rectangle on the canvas"

DOC ""

DOC " rectangle (x1,y1, width, height);"

DOC " x1 - x-coordinate"

DOC " y1 - y-coordinate"

DOC " width - width of square"

```

DOC "    height - height of square"
DOC ""
DOC "rectangle (x1, y1, width, height);"
rectangle (100, 100, 200, 150);
wait(2);
clear;

```

```

DOC ""
DOC "Command: square"
DOC ""
DOC "Draw a square on the canvas"
DOC ""
DOC "    square (x1, y1, width);"
DOC "    x1 - x-coordinate"
DOC "    y1 - y-coordinate"
DOC "    width - width of square"
DOC ""
DOC "square (x1, y1, width);"
square (125, 125, 75);
wait(2);
clear;

```

```

DOC ""
DOC "Command: circle"
DOC ""
DOC "Draw a circle on the canvas"
DOC ""
DOC "    circle (x1, y1, radius);"
DOC "    x1 - x-coordinate"
DOC "    y1 - y-coordinate"
DOC "    radius - radius of circle"
DOC ""
DOC "circle (x1, y1, radius);"
circle (50, 50, 50.0);
wait(2);
clear;

```

```

DOC ""
DOC "Command: ellipse"
DOC ""
DOC "Draw an ellipse on the canvas"
DOC ""
DOC "    ellipse (x1, y1, width, height);"
DOC "    x1 - x-coordinate"
DOC "    y1 - y-coordinate"
DOC "    width - width of ellipse"
DOC "    height - height of ellipse"
DOC ""
DOC "ellipse (x1, y1, width, height);"
ellipse (50, 50, 150, 125);
wait(2);
clear;

```

```

DOC ""
DOC "Command: arc"
DOC ""
DOC "Draw an arc on the canvas"
DOC ""
DOC "    arc (x1, y1, width, height, start angle, arc angle);"
DOC "    x1 - x-coordinate"
DOC "    y1 - y-coordinate"
DOC "    width - width of arc"
DOC "    height - height of arc"
DOC "    start angle - start of arc"
DOC "    arc angle - end of arc"
DOC ""

```

```

DOC "arc(x, y, width, height, start angle, arc angle);"
arc (100, 100, 75, 125, 90, 135);
wait(2);
clear;

/*
Polygon is out due to limitation with Javassist and array initializers
DOC ""
DOC "Command: polygon"
DOC ""
DOC "Draw a polygon on the canvas"
DOC ""
DOC "  polygon (x1, y1);"
DOC "    x1 - x-coordinates"
DOC "    y1 - y-coordinates"
DOC "  The x,y coordinates are in pair an there must be a minimum of 2 pairs."
DOC ""
DOC "polygon (x1, y1, ...);"
polygon (10, 10, 50, 50, 125, 150, 125, 75, 50);
wait(2);
clear;
*/

DOC ""
DOC "Command: line"
DOC ""
DOC "Draw a line on the canvas"
DOC ""
DOC "  line (x1, y1, x2, y2);"
DOC "    x1 - x-coordinate start of line"
DOC "    y1 - y-coordinate start of line"
DOC "    x2 - x-coordinate start of line"
DOC "    y2 - y-coordinate start of line"
DOC ""
line (125, 125, 250, 300);
wait(2);
clear;

DOC ""
DOC "Command: wait"
DOC ""
DOC "Make the script pause for a number of seconds"
DOC ""
DOC "  wait (seconds);"
DOC "    seconds - duration to pause the script (seconds)"
wait(2);

DOC ""
DOC "Command: log"
DOC ""
DOC "Write a general log message to the jgsl.log file"
DOC ""
DOC "  log (message);"
DOC "    message - Message "
DOC ""
log("This is a log message written to jgsl.log");

DOC ""
DOC "Command: log"
DOC ""
DOC "Write a general log message to the jgsl.log file"
DOC ""
DOC "  debug (message);"
DOC "    message - duration to pause the script (seconds)"
DOC ""
debug("This is a debug message written to jgsl.log");

```

```
DOC "error (message);"  
error("This is an error message written to jgsl.log");  
  
DOC "warning (message);"  
warning("This is a warning message written to jgsl.log");  
  
end
```