Coding a Car Scene in SVG on a 500 by 500 grid

Copy the code from: http://steamcoded.org/lessons/grid500x500.svg.txt and save the file as Car.svg and open the file in a browser.

In the editor, add the SVG elements (per instructions below) where indicated in the SVG code, i.e. inside the second grouping (<g> element). **Important:** Save the file and refresh the browser after each step.

1: Create a rectangle element, width: 500, height: 275 style: fill:blue;

2: Create a circle element about (435,65), radius: 35
style: fill:yellow;stroke:yellow;stroke-width:50px;stroke-dasharray:4,4,4,20;

3: Create a grouping <g> element, style: fill:none;stroke:black;stroke-width:2px;

4: Create lines using the <path> element as a child element of step 3,
Moveto (175,100), Lineto (195,85), Lineto (210,100), Lineto(225,85), Lineto (250,100)

5: Create more lines using the <path> element as a child element of step 3,
Moveto (225,50), Lineto (245,35), Lineto (260,50), Lineto(275,35), Lineto (300,50)

6: Create a grouping <g> element with transform attribute: translate(175,275)

7: Create 5 circle elements as child elements of step 6, Note: cx and cy default to 0
radius: 150, style: fill:red;
radius: 130, style: fill:orange;
radius: 110, style: fill:yellow;
radius: 90, style: fill:blue;
radius: 70, style: fill:green;

8: Create a grouping <g> element, style: fill:white;

9: Create 4 circle elements as child elements of step 7,
cx: 50, cy: 100, radius: 20
cx: 75, cy: 125, radius: 38
cx: 115, cy: 110, radius: 29
cx: 105, cy: 138, radius: 29

10: Create a rectangle element, x: 0, y: 275, width: 500, height: 200, style: fill:gray;

11: Create a grouping <g> element, style: fill:yellow;stroke:black;

12: Create 4 rectangle elements as child elements of step 11,
x: 0, y: 350, width: 50, height: 25

x: 125, y: 350, width: 100, height: 25
x: 300, y: 350, width: 100, height: 25
x: 475, y: 350, width: 25, height: 25

13:     Create a grouping <g> element, style: fill:green;stroke:black;

14:     Create 2 elements as child elements of step 13,
        rectangle x: 100, y: 250, width: 350, height: 100 rx: 25
        ellipse cx: 275, cy: 250, rx: 125, ry: 75

15:     Create 3 elements,
        ellipse cx: 275, cy: 250, rx: 110, ry: 60, style="fill:white;
        rectangle x: 265, y: 179, width: 20, height: 85, style="fill:green;
        rectangle x: 150, y: 250, width: 250, height: 85, style="fill:green;

16:     Create 4 circle elements,
        cx: 190, cy: 350, radius: 40, style="fill:black;
        cx: 360, cy: 350, radius: 40, style="fill:black;
        cx: 190, cy: 350, radius: 20, style="fill:gray;
        cx: 360, cy: 350, radius: 20, style="fill:gray;

17:     Create a grouping <g> element,
        style: fill:black;stroke:black;stroke-width:60px;stroke-dasharray:1.5,1.5,1.5,20;

18:     Create 2 circle elements as child elements of step 17,
        cx: 190, cy: 350, radius: 5
        cx: 360, cy: 350, radius: 5

19:     Create a grouping <g> element, style: stroke:black;

20:     Create 5 elements as child elements of step 19,
        ellipse cx: 448, cy: 282, rx: 7, ry: 12, style="fill:yellow;
        rectangle x: 100, y: 300, width: 10, height: 15, rx: 5, style="fill:red;
        rectangle x: 415, y: 300, width: 15, height: 10, rx: 5, style="fill:orange;
        rectangle x: 95, y: 320, width: 30, height: 20, rx: 5, style="fill:gray;
        rectangle x: 425, y: 320, width: 30, height: 20, rx: 5, style="fill:gray;

21:     Create a line using the <path>,
        Moveto (125,250), Lineto (95,200), style: fill:black;stroke:black;stroke-width:2px;

22:     Create a circle element about (95,200), radius: 3, style: fill:black;

23:     Change the SVG viewBox height from 500 to 475

        When complete, change the style attribute of the first element from "display:initial"
        to "display:none" which hides the grid. Then change the style style attribute of the
        second element from "opacity:0.5" to "opacity:1"