

Scalable Vector Graphics

In this exercise we will look at the SVG tag in HTML.

Exercises

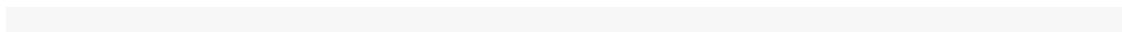
1. Create a blank HTML file.

```
<!DOCTYPE html>
<html>
  <head>
    <style type="text/css"></style>
  </head>
  <body>
    <script type="text/javascript">
    </script>
  </body>
</html>
```

2. Insert SVG tags.

```
<!DOCTYPE html>
<html>
  <head>
    <style type="text/css"></style>
  </head>
  <body>
    <svg></svg>
    <script type="text/javascript">
    </script>
  </body>
</html>
```

3. Within the SVG tags, add a circle with a fill colour of your choice.
4. Next, add a rectangle (colour of your choice).
5. Next, add a triangle (colour of your choice).
6. Add your name in another colour.
7. Have the circle drawn on top of the rectangle, rather than behind it.
8. Put a black border around the circle – use the stroke property to achieve this.
9. Use CSS to set the fill and stroke colours of the shapes instead of using attributes in the SVG tags.



Advanced exercises

1. Draw PacMan on the screen using SVG. Draw a black stroke around the edge of the Pacman. Use the path command and cartesian to polar coordinate conversion to achieve this.
2. Use JavaScript to move the circle after one second.
3. Use JavaScript to change the colour of the circle to green after two seconds.

Notes

- [MDN SVG Tutorial](#)
- You can find numerous examples of manipulating SVG elements using JavaScript online. One example is [Using Javascript to control an SVG](#).