Scalable Vector Graphics

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

Exercises

1. Create a blank HTML file.

2. Insert SVG tags.

- 3. Within the SVG tags, add a circle with a fill colour of your choice, centred at (100, 100), with radius 20.
- 4. Next, add a rectangle (colour of your choice) with width 100 and height 200, that has its top left corner at (10, 10).
- 5. Add your name in another colour, starting at (50, 50) and with font size 24. e.g.

```
<text x="50" y="50" font-size="24" fill="green">Brian</text>
```

- 6. Have the circle drawn on top of the rectangle, rather than behind it.
- 7. Put a black border around the circle use the stroke property to achieve this.

8. Use CSS to set the colours of the circle instead of using attributes to the SVG tags.

```
<style type="text/css">
  circle {
    fill: blue;
    stroke: black;
  }
  </style>
...
  <circle cx="100" cy="100" r="20" />
```

Advanced exercises

- 1. Draw PacMan on the screen using SVG. Draw a black stroke around the edge of the Pacman. Hint: use the path command to achieve this.
- 2. Use JavaScript to move the circle to be centered at (120,120) 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.