What is SVG?

- SVG stands for Scalable Vector Graphics
- SVG is used to define vector-based graphics for the Web
- SVG defines graphics in XML format
- Each element and attribute in SVG files can be animated
- SVG is a W3C recommendation
- SVG integrates with other standards, such as CSS, DOM, XSL and JavaScript

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1. Circle

Example

```
<html>
<body>

<svg width="100" height="100">
  <circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow" />
</svg>

</body>
</html>
```

2. Rectangle

Example

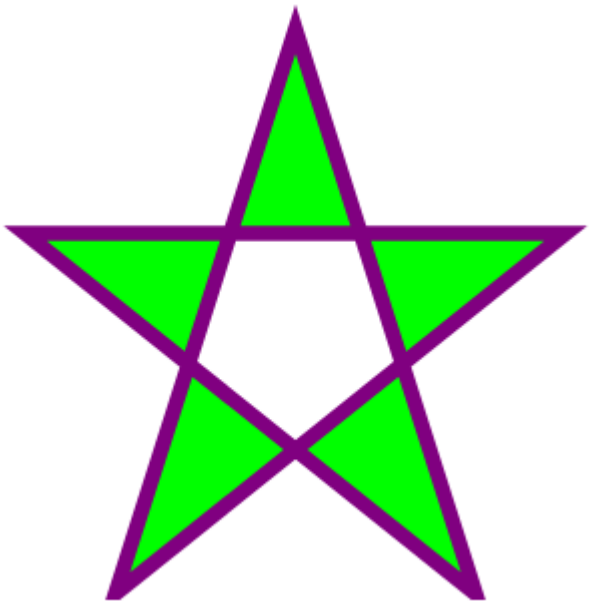
```
<svg width="400" height="120">
  <rect x="10" y="10" width="200" height="100" stroke="red" stroke-width="6" fill="blue" />
</svg>
```

3. Rectangle with Opacity and Rounded Corners

Example

```
<svg width="400" height="180">
  <rect x="50" y="20" rx="20" ry="20" width="150" height="150"
  style="fill:red;stroke:black;stroke-width:5;opacity:0.5" />
</svg>
```

4. Star



Example

```
<svg width="300" height="200">
  <polygon points="100,10 40,198 190,78 10,78 160,198"
  style="fill:lime;stroke:purple;stroke-width:5;fill-rule:evenodd;" />
</svg>
```

5. Gradient Ellipse and Text

Example

```
<svg height="130" width="500">
  <defs>
    <linearGradient id="grad1">
      <stop offset="0%" stop-color="yellow" />
      <stop offset="100%" stop-color="red" />
    </linearGradient>
  </defs>
  <ellipse cx="100" cy="70" rx="85" ry="55" fill="url(#grad1)" />
  <text fill="#ffffff" font-size="45" font-family="Verdana" x="50" y="86">SVG</text>
  Sorry, your browser does not support inline SVG.
</svg>
```