HTML5 TUTORIAL

HTML5 Introduction

HTML5 Features

HTML5 Attributes

HTML5 Code structure

HTML5 Headings

HTML5 Title

HTML5 Styles

HTML5 Canvas

HTML5 SVG

Tags in HTML5

!DOCTYPE Declaration

a tag

abbr tag

article tag

aside tag

bdi tag

canvas tag

datalist tag

details tag

figure tag

footer tag

header tag

main tag

mark tag

menuitem tag

meter tag

nav tag

output tag

section tag

summary tag

progress tag

time tag

Examples

HTML Basic Examples

HTML5 SVG (Scalable Vector Graphics)

SVG stands for Scalable Vector Graphics and is a W3C recommendation. HTML5 SVG is used in HTML to create 2D graphics. It was introduced in HTML5 and is quite useful to add graphics. We saw HTML5 Canvas before to create a circle, rectangle, line, and other graphics. Now let us see how to work with SVG.

Add SVG on web page

If you're having a file with **.svg** extension, then you need to use any of the following elements to add it to web page: <img> <object>, <embed>.

If you're not having an SVG file, then add SVG to your web page. Add it using HTML5 <svg> element. Let's see how,

For a demo, we will be creating a rectangle using SVG.

HTML5 SVG Rectangle

For creating a rectangle, you need to add <rect> element inside the <svg> element. Do not forget to set the height and width of the rectangle.

```
1
2   <!DOCTYPE html>
3   <html>
4       <head>
5           <title>HTML5 SVG</title>
6       </head>
```

```
 7      <body>
 8    <h2>Studyopedia HTML5 Tutorial</h2>
 9    <h3>HTML5 SVG Rectangle</h3>
10       <svg ID="mysvg" width="300" height="150">
11          <rect id="rectid" width="300" height="150" fill="o
12             style="stroke-width:8;stroke:#EB4C29" />
13       </svg>
14    </body>
15  </html>
16
```

We added a rectangle with orange color and red border.

Here's the output,

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HTML5 SVG

HTML5 SVG Circle

For creating a circle, you need to add <circle> element inside the
<svg> element. Set the **cx** and **cy** values, which are x and y
coordinates respectively. You need to also set the **r** value, which is the
radius.

```
 1
 2  <!DOCTYPE html>
 3  <html>
 4     <head>
 5        <title>HTML5 SVG Circle</title>
 6     </head>
 7     <body>
 8    <h2>Studyopedia HTML5 Tutorial</h2>
 9    <h3>HTML5 SVG Circle</h3>
10       <svg ID="mysvg" width="300" height="150">
11          <circle id="circleid" cx="50" cy="50" r=40 fill="o
12             style="stroke-width:5;stroke:#FF0000" />
13       </svg>
14    </body>
15  </html>
16
```

We added an orange color circle with red border.

Here's the output,

Studyopedia HTML5 Tutorial

HTML5 SVG Circle

HTML5 SVG Line

For creating a line, you need to add <line> element inside the <svg> element. Do not forget to set the x1, y1, x2, and y2 coordinate values.

Here, **x1** and **y1** are start coordinates. The **x2** and **y2** coordinates are the end coordinates.

```
1
2  <!DOCTYPE html>
3  <html>
4      <head>
5          <title>HTML5 SVG Line</title>
6      </head>
7      <body>
8     <h2>Studyopedia HTML5 Tutorial</h2>
9     <h3>HTML5 SVG Line</h3>
10        <svg ID="mysvg" width="400" height="250">
11            <line x1="10" y1="0" x2="150" y2="100" style="stro
12        </svg>
13      </body>
14  </html>
15
```

We added a line above.

Here's the output,

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HTML5 SVG Line

HTML5 SVG Ellipse

For creating an Ellipse, you need to add <ellipse> element inside the <svg> element. Do not forget to set the **cx**, **cy**, **rx** and **ry** values.

Here are the values,

cx = x coordinate

cy = y coordinate

rx = horizontal radius

ry = vertical radius

```
1
2    <!DOCTYPE html>
3    <!DOCTYPE html>
4    <html>
5       <head>
6          <title>HTML5 SVG</title>
7       </head>
8       <body>
9     <h2>Studyopedia HTML5 Tutorial</h2>
10    <h3>HTML5 SVG Ellipse</h3>
11        <svg ID="mysvg" width="300" height="150">
12          <ellipse cx="140" cy="80" rx="95" ry="60" fill="or
13        </svg>
14      </body>
15  </html>
16
```

We added an ellipse with orange color.

Here's the output,

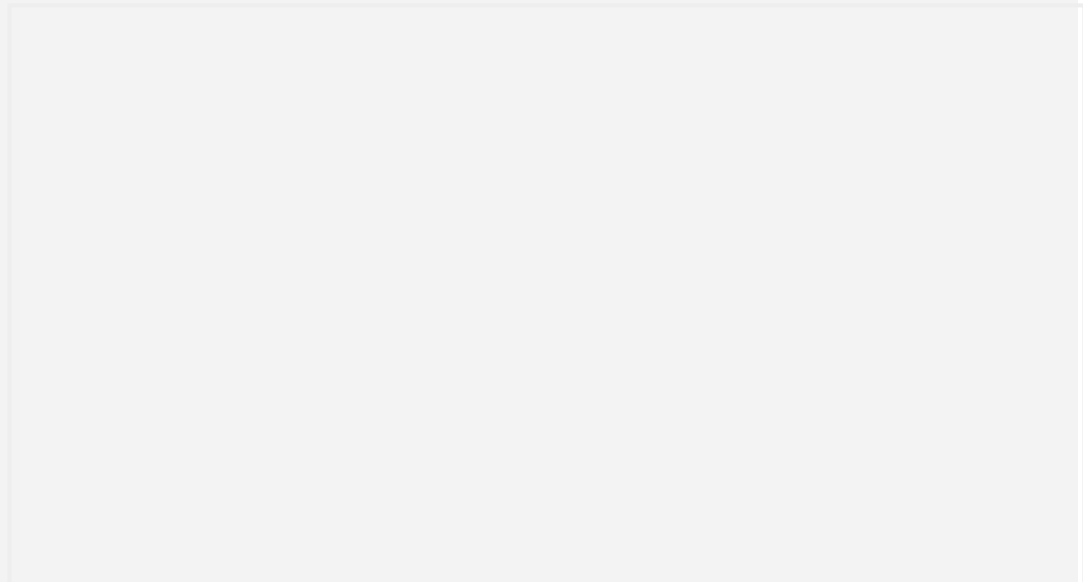## Studyopedia HTML5 Tutorial

HTML5 SVG Ellipse

HTML5 SVG Polygon

For creating a polygon, you need to add <polygon> element inside the

<svg> element. Do not forget to set the **points** attribute value.

```
1
2   <!DOCTYPE html>
3   <html>
4       <head>
5           <title>HTML5 SVG Polygon</title>
6       </head>
7       <body>
8      <h2>Studyopedia HTML5 Tutorial</h2>
9      <h3>HTML5 SVG Polygon</h3>
10         <svg ID="mysvg" width="500" height="150">
11             <polygon points="180, 20 200,200 140,200" style="f
12         </svg>
13       </body>
14   </html>
15
```

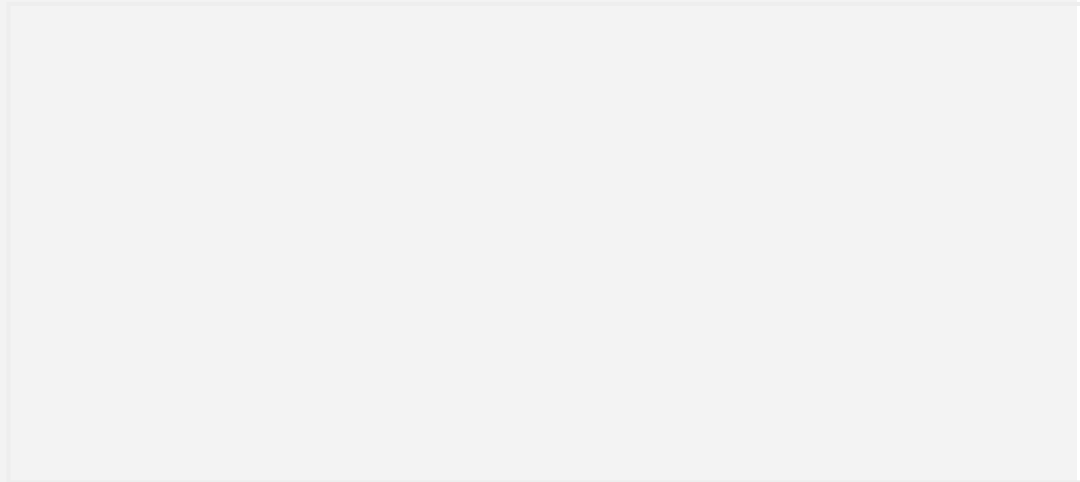We added a polygon with orange color.

Here's the output,

HTML5 SVG Polyline

For creating a polyline, you need to add <polyline> element inside the

<svg> element. Do not forget to set the point attribute for polyline.

```
1
```

```
2  <!DOCTYPE html>
3  <html>
4      <head>
5          <title>HTML5 SVG Polyline</title>
6      </head>
7      <body>
8    <h2>Studyopedia HTML5 Tutorial</h2>
9    <h3>HTML5 SVG Polyline</h3>
10        <svg ID="mysvg" width="500" height="150">
11          <polyline points="40,100 50,70 70,80 110,20" fill="
12        </svg>
13      </body>
14  </html>
15
```

We added a polyline with blue color.

Here's the output,

HTML5 SVG Rounded Rectangle

For creating a rectangle, you need to add <rect> element inside the <svg> element. Set the width and height attributes.

For creating a rounded rectangle, you need to add <rext> element inside the <svg> element. Set the following attributes:

x: x coordinate

y: y coordinate

rx: x corner coordinate

ry: y corner coordinate

width: width of the rectangle

height: height of the rectangle
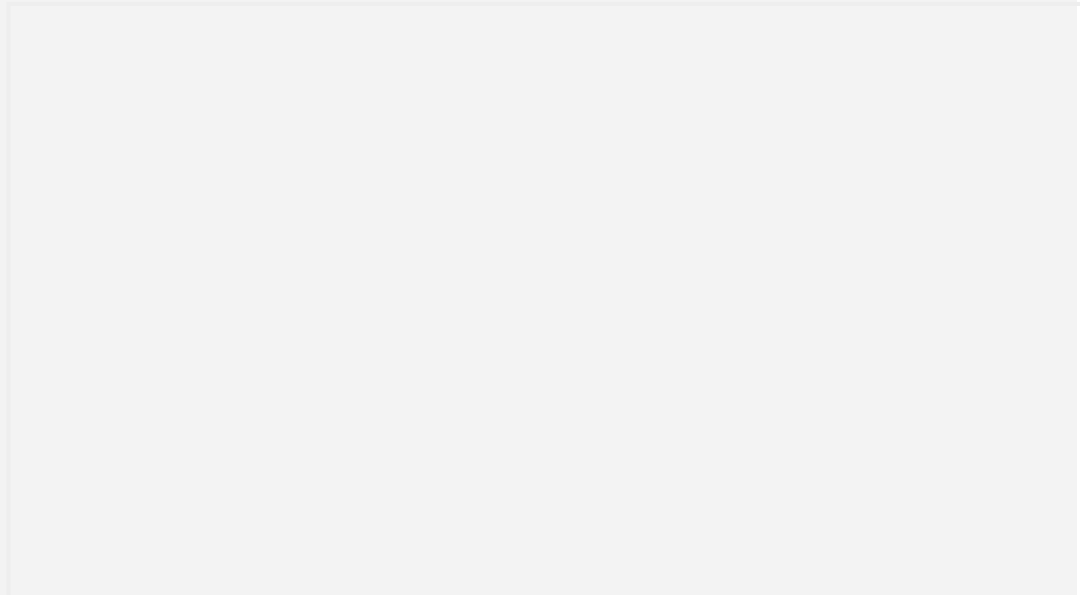
```
1
2  <!DOCTYPE html>
3  <html>
4      <head>
5          <title>HTML5 SVG Rounded Rectangle</title>
6      </head>
7      <body>
8      <h2>Studyopedia HTML5 Tutorial</h2>
9      <h3>HTML5 SVG Rounded Rectangle</h3>
10         <svg ID="mysvg" width="500" height="250">
11             <rect x="70" y="40" rx="40" ry="40" width="150" hei
12         </svg>
13     </body>
14 </html>
15
```

We added a rounded rectangle with blue color.

Here's the output,

HTML5 Three Ellipses on top of each other

For creating an Ellipse, you need to add <ellipse> element inside the
<svg> element. Do not forget to set the cx, cy, rx and ry values. Here,
we will see how to create three ellipses on top of each other.

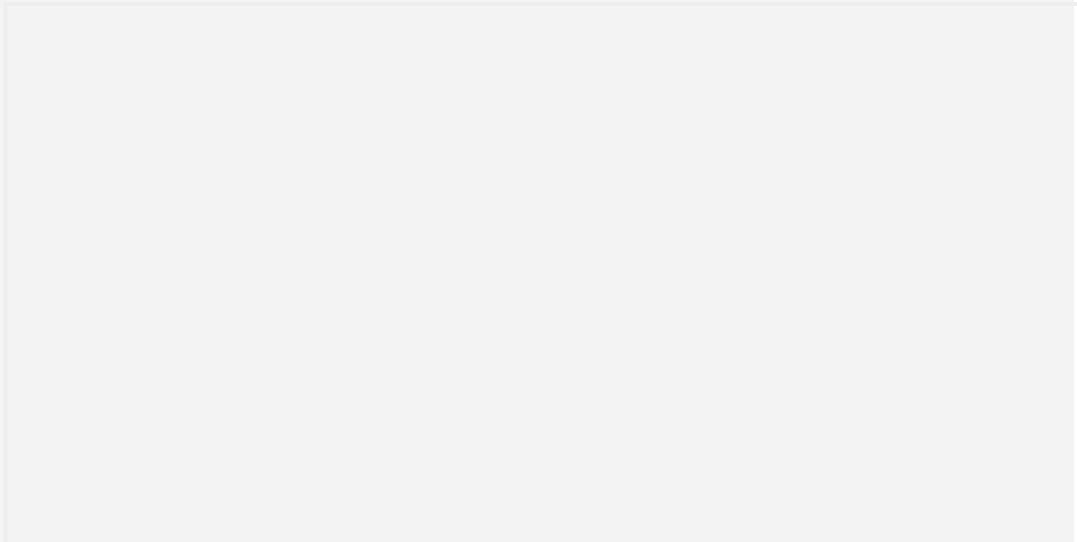Here are the values,

- **cx** = x coordinate
- **cy** = y coordinate
- **rx** = horizontal radius
- **ry** = vertical radius

```
1
```

```
2   <!DOCTYPE html>
3   <html>
4       <head>
5           <title>HTML5 SVG Ellipses</title>
6       </head>
7       <body>
8       <h2>Studyopedia HTML5 Tutorial</h2>
9       <h3>HTML5 SVG Ellipses</h3>
10          <svg ID="mysvg" width="500" height="150">
11              <ellipse cx="260" cy="110" rx="230" ry="40" style=
12              <ellipse cx="240" cy="80" rx="190" ry="30" style="
13              <ellipse cx="230" cy="50" rx="150" ry="15" style="
14          </svg>
15      </body>
16  </html>
17
```

We added 3 ellipses on top of each other with blue, black and red color.

Here's the output,

HTML5 time Tag

HTML <!DOCTYPE> Declaration

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