

## Tutorial 1:

In this tutorial we will be looking in depth of how to create simple shapes, along with the styles that can be added to such simple shapes, and finally this will be exploring the possible applications that can be made with these svg features.

The first step for creating an svg simple shape is knowing the attributes that go into creating a simple shape. Here we are shown the attributes along with elements responsible for creating the simple shape for a circle

```
1 <html>
2 <body>
3 <!--Here we are displaying the various simple shapes that can be created along with their styles-->
4
5 <h1>Tutorial 1 introduction to simple shapes </h1>
6
7 <svg width="100" height="100">
8   <circle cx="50" cy="50" r="40"/>
9 </svg>
10
```

Figure 1: Code for creating a circle

As we can see the simple shape of a circle involves an svg element with a certain width and height. Within this svg element we specify what shape we want to create in this case since we are creating a circle we use the circle element. Next we specify the width which is specified by cx, the height which is specified by cy and radius which is specified by r.

This code will output the image below

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Figure 2: The output that is displayed running the following code

Here we can see the code in action where we can see a displayed simple shape of that of a circle

Next we will be creating a shape of that of a rectangle. This is similar to how we created a circle but instead we will be using the rect element within the svg element. Then we specify the width along with the height of the rectangle which is respectively the attributes width and height. We can see the following code below

```
10  
11  
12 <svg width="100" height="100">  
13   <rect width="75" height="25" />  
14 </svg>  
15
```

Figure 3: Code for creating a rectangle

This code in action will display the following on top of the code that was displayed

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Figure 4: Screenshot showing the new added rectangle

The same as the rectangle shape but this time we are specifying the width and height dimensions to be the same.

```
16 <svg width="100" height="100">  
17   <rect width="100" height="100" />  
18 </svg>
```

Figure 5: Code for creating a square

When we run the code we receive the following

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Figure 6: Screenshot showing the new added square