

What is SVG image ?

SVG IMAGE IS XML BASED VECTOR IMAGE USED FOR RENDERING TWO DIMENSIONAL IMAGES IN XML CODE.

WHAT IS XML BASED IMAGE ?

XML IMAGE ALLOWS ONE TO DEFINE COLLECTIONS OF GEOLOCATED IMAGES (AND ALSO SHAPEFILES).

UNLIKE RASTER IMAGES FORMATS (SUCH AS JPEG, PNG , JPG)

WHICH STORE IMAGE AS A GRID OF PEXELS , SVG IMAGES DESCRIBES SHAPE USING MATHEMATICAL EQUATIONS MAKE THEM RESOLUTION-INDEPENDENT AND INFINITELY SCALABLE WITHOUT LOSING QUALITY .

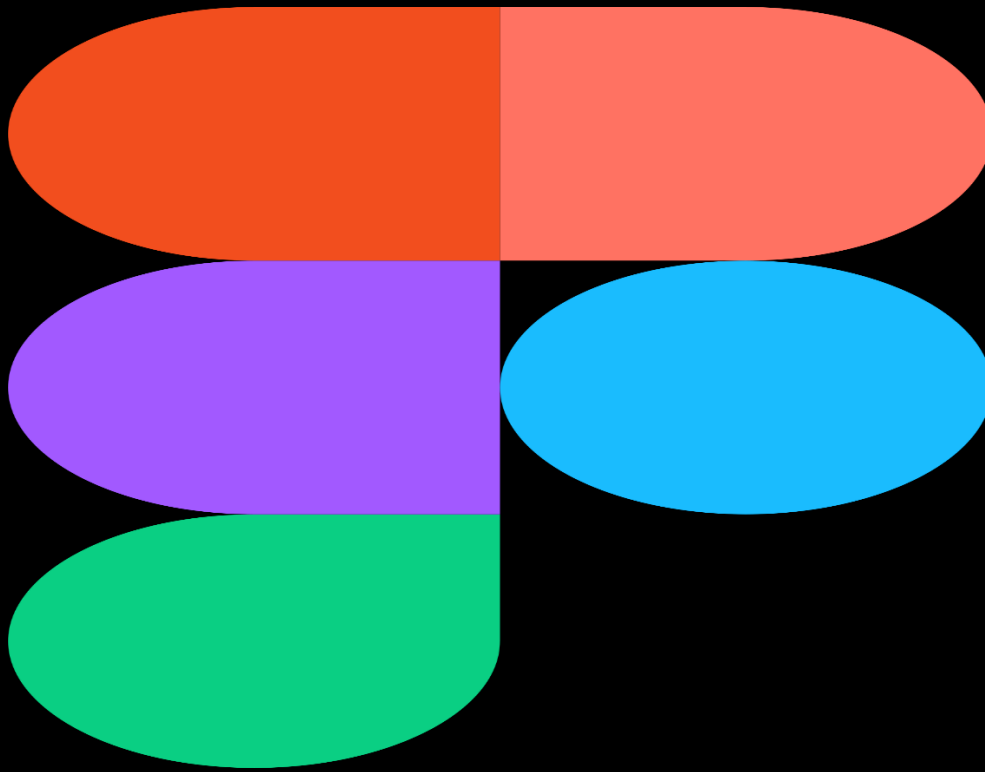


VECTOR



RASTER

TOOLS I RECOMMEND ...



Ai

How one can create svg image ?

1. START BY CREATING A FILE WITH THE ".SVG" EXTENSION, FOR EXAMPLE, "ICON.SVG".

2. USE THE `<SVG>` TAG TO DEFINE THE SVG CONTAINER:

...

```
<SVG VIEWBOX="0 0 100 100">
```

```
<!-- SVG SHAPES WILL GO HERE -->
```

```
</SVG>
```

...

3. INSIDE THE `<SVG>` TAG, YOU CAN DEFINE VARIOUS SHAPES LIKE `<RECT>` FOR RECTANGLES, `<CIRCLE>`, `<POLYGON>`, ETC.

...

```
<RECT X="10" Y="10" WIDTH="30%" HEIGHT="45%"  
FILL="RED" STROKE="YELLOW" />
```

...

4. YOU CAN POSITION SHAPES BY DEFINING THE `X` AND `Y` ATTRIBUTES, AND GIVE THEM A SIZE USING `WIDTH` AND `HEIGHT`.

5. USE THE `FILL` ATTRIBUTE TO CHANGE THE COLOR OF THE SHAPE.

6. USE THE `STROKE` ATTRIBUTE TO DEFINE THE OUTLINE OF THE SHAPE.

7. YOU CAN DEFINE STYLES FOR SVG SHAPES USING CSS:

```
```css
.svg-shape {
 fill: blue;
 stroke: green;
}
```
```

8. YOU CAN APPLY THE CLASS TO YOUR SVG ELEMENTS:

```
<RECT X="10" Y="10" WIDTH="30%" HEIGHT="45%"  
CLASS="SVG-SHAPE" />  
...
```

9. FOR MORE COMPLEX STRUCTURES, USE THE `<PATH>` ELEMENT AND DEFINE ITS `d` ATTRIBUTE, WHICH STANDS FOR "DRAW". YOU CAN USE COMMANDS LIKE `M` FOR MOVE, `L` FOR LINE, `C` FOR CUBIC BEZIER, `Q` FOR QUADRATIC BEZIER, ETC.

```
...  
  
<PATH D="M 10 20 L 25 23" />  
...
```

REMEMBER, SVG IS A POWERFUL TOOL FOR CREATING SCALABLE VECTOR GRAPHICS ON THE WEB, AND IT OFFERS A WIDE RANGE OF POSSIBILITIES FOR DESIGN AND INTERACTIVITY. IF YOU NEED FURTHER ASSISTANCE OR WANT TO EXPLORE MORE SVG FEATURES, FEEL FREE TO ASK!