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THE WORLD'S LARGEST WEB DEVELOPER SITE



HTML5 SVG



What is SVG?

- SVG stands for Scalable Vector Graphics
- SVG is used to define graphics for the Web
- SVG is a W3C recommendation

The HTML <svg> Element

The HTML <svg> element is a container for SVG graphics.

SVG has several methods for drawing paths, boxes, circles, text, and graphic images.

Browser Support

The numbers in the table specify the first browser version that fully supports the <svg> element.

Element	©	e	6		0
<svg></svg>	4.0	9.0	3.0	3.2	10.1

SVG Circle



Example

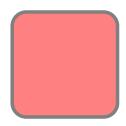
<!DOCTYPE html>



SVG Rectangle



SVG Rounded Rectangle



SVG Star



SVG Logo



Differences Between SVG and Canvas

SVG is a language for describing 2D graphics in XML.

Canvas draws 2D graphics, on the fly (with a JavaScript).

SVG is XML based, which means that every element is available within the SVG DOM. You can attach JavaScript event handlers for an element.

In SVG, each drawn shape is remembered as an object. If attributes of an SVG object are changed, the browser can automatically re-render the shape.

Canvas is rendered pixel by pixel. In canvas, once the graphic is drawn, it is forgotten by the browser. If its position should be changed, the entire scene needs to be redrawn, including any objects that might have been covered by the graphic.

Comparison of Canvas and SVG

The table below shows some important differences between Canvas and SVG:

Canvas SVG

- Resolution dependent
- No support for event handlers
- Poor text rendering capabilities
- \bullet You can save the resulting image as .png or .jpg
- Well suited for graphic-intensive games

- Resolution independent
- Support for event handlers
- Best suited for applications with large rendering areas (Google Maps)
- Slow rendering if complex (anything that uses the

DOM a lot will be slow)

• Not suited for game applications

SVG Tutorial

To learn more about SVG, read our SVG Tutorial.



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HOW TO

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