SVG
Scalable Vector Graphics
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Scalable Vector Graphics

SVG is a language for describing two-dimensional graphics in XML.

SVG allows for three types of graphic objects: vector graphic shapes, images, and text.

SVG drawings can be interactive and even styled with CSS.

Scalable Vector Graphics (SVG) 1.1
Introduction
www.w3.org/TR/SVG/
Scalable Vector Graphics (SVG) 1.1 Concepts

http://www.w3.org/TR/SVG/concepts.html

To be scalable means to increase or decrease uniformly

In terms of graphics, means not being limited to a single, fixed, pixel size

On the Web, scalable means that a particular technology can grow

SVG is scalable in both senses of the word
Vector graphics contain geometric objects such as lines and curves. This gives greater flexibility compared to raster-only formats. Since all modern displays are raster-oriented, the difference between raster-only and vector graphics comes down to where they are rasterized. Vector graphics are rasterized client side; raster graphics are, by nature, already rasterized on the server.

Scalable Vector Graphics (SVG) 1.1 Concepts
http://www.w3.org/TR/SVG/concepts.html
SVG Graphics

Most existing XML grammars represent either textual information or raw data.

They typically provide only rudimentary graphical capabilities.

SVG provides a rich, structured description of vector and mixed vector/raster graphics.

Scalable Vector Graphics (SVG) 1.1 Concepts

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SVG

Advantages

SVG images can be created and edited with any text editor
SVG images can be searched, indexed, scripted, and compressed
SVG images are scalable, can be printed at any resolution, and are zoomable without degradation
SVG is an open standard
SVG files are pure XML

SVG Introduction
http://www.w3schools.com/svg/svg_intro.asp
SVG

XML stands for Extensible Markup Language

XML is a markup language much like HTML

XML was designed to carry data, not to display data

XML tags are not predefined. You must define your own tags

XML is designed to be self-descriptive

SVG is written in XML

Introduction to XML
http://www.w3schools.com/xml/xml_whatis.asp
The advantages of style sheets are now generally accepted, certainly for use with text. SVG extends this control to the realm of graphics. It allows for script-based manipulation of the document tree and the style sheet.

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There are a variety of ways in which SVG content can be included within a Web page:

- A stand-alone SVG Web page
- Embedding by reference, using the HTML ‘img’ element
- Embedding inline
- External link, using the HTML ‘a’ element
- Referenced from a CSS property

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http://www.w3.org/TR/SVG/concepts.html
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