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Scalable Vector Graphics (SVG) 2

W3C Candidate Recommendation *04 October 2018*

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Abstract

This specification defines the features and syntax for Scalable Vector Graphics (SVG) Version 2. SVG is a language based on XML for describing two-dimensional vector and mixed vector/raster graphics. SVG content is stylable, scalable to different display resolutions, and can be viewed stand-alone, mixed with HTML content, or embedded using XML namespaces within other XML languages. SVG also supports dynamic changes; script can be used to create interactive documents, and animations can be performed using declarative animation features or by using script.

Status of This Document

This section describes the status of this document at the time of its publication. Other documents may supersede this document. A list of current W3C publications and the latest revision of this technical report can be found in the W3C technical reports index at https://www.w3.org/TR/.

This document is the 04 October 2018 **Candidate Recommendation** of SVG 2. This version of SVG builds upon SVG 1.1 Second Edition by improving the usability and precision of the language. The Changes appendix lists all of the changes that have been made since SVG 1.1 Second Edition.

Publication as a Candidate Recommendation does not imply endorsement by the W3C Membership. This is a draft document and may be updated, replaced or obsoleted by other documents at any time. It is inappropriate to cite this document as other than work in progress.

This Candidate Recommendation is expected to advance to Proposed Recommendation no earlier than 04 December 2018.

There is no preliminary implementation report at this time. The SVG Working Group is working on a test suite for SVG2 and expects to produce an implementation report based on those tests.

Comments on this Candidate Recommendation are welcome. Comments can be raised as GitHub issues (preferred), or alternatively be sent to www-svg@w3.org, the public email list for issues related to vector graphics on the Web. This list is archived and senders must agree to have their message publicly archived from their first posting. To subscribe send an email to www-svg-request@w3.org with the word `subscribe` in the subject line.

The specification includes a number of annotations that the Working Group is using to record links to meeting minutes and resolutions where specific decisions about SVG features have been made. Different coloring is also used to mark the maturity of different sections of the specification:

- a red background indicates a section that is either unchanged since SVG 1.1 (and which therefore still requires review and possible rewriting for SVG 2), or a section that is new but still requires substantial work
- a yellow background indicates a section from SVG 1.1 that has been reviewed and rewritten if necessary, or a new section that is complete and ready for the rest of the Working Group to review
- a white background indicates a section, either from SVG 1.1 or new for SVG 2, that has been reviewed by the Working Group and which is ready for wider review

This document has been produced by the W3C SVG Working Group as part of the Graphics Activity within the W3C Interaction Domain. The goals of the W3C SVG Working Group are discussed in the W3C SVG Charter. The W3C SVG Working Group maintains a public Web page, https://www.w3.org/Graphics/SVG/, that contains further background information. The authors of this document are the SVG Working Group participants.

This document was produced by a group operating under the W3C Patent Policy. W3C maintains a public list of any patent disclosures made in connection with the deliverables of the group; that page also includes instructions for disclosing a patent. An individual who has actual knowledge of a patent which the individual believes

contains Essential Claim(s) must disclose the information in accordance with section 6 of the W3C Patent Policy.

A list of current W3C Recommendations and other technical documents can be found at https://www.w3.org/TR/. W3C publications may be updated, replaced, or obsoleted by other documents at any time.

This document is governed by the 1 February 2018 W3C Process Document.

All features in this specification depend upon implementation in browsers or authoring tools. If a feature is not certain to be implemented, we define that feature as "at risk". At-risk features will be removed from the current specification, and may be included in future versions of the specification. If an at-risk feature is particularly important to authors of SVG, those authors are encouraged to give feedback to implementers regarding its priority. The following features are at risk, and may be dropped during the CR period:

- More than one ‘title’ or ‘desc’ to provide localisation
- ‘zoomAndPan’
- Nested links
- ‘unknown’ elements and the SVGUnknownElement interface.
- vector-effect options other than non-scaling-stroke

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