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MathJax: a JavaScript-based engine for including TeX and MathML in HTML.

In 2004, the jsMath JavaScript program showed that it was feasible to present TeX-based mathematics in web pages via HTML/CSS and unicode fonts in a way that works across browsers and platforms, without the need for plugins or other software installation on the part of the person viewing the web page. The results would scale properly along with the text on the page, and would print at full resolution (unlike images, the traditional way of including mathematics in web pages). Since that time, jsMath has been incorporated into dozens of wikis, blogs, course management systems, computer algebra systems, and other software as a means of presenting mathematics. Under the guidance of Design Science, Inc, and with the support of the AMS, MAA, SIAM, Mathworks, the APS, and others, the next generation of this software, called MathJax, is being developed. It is more modular, more robust, and more flexible than jsMath, and will include both TeX and MathML as input languages, bringing MathML support to a wider range of web browser than ever before. In this talk, we will present an overview of the structure of MathJax and how it works within a web page. (Received September 22, 2009)