

1056-N5-1504 **Robert R Miner*** (robertm@dessci.com), 413 Wacouta Street, Suite 540, Saint Paul, MN 55101. *MathType, Math Markup, and the Goal of Cut and Paste.*

One consequence of the rise of the Web as an information source and application platform is the expectation of easy reuse. The ability to cut and paste text data between web pages and applications greatly enhances the utility of both the source and target. This presentation examines the state of the art for cut and paste of mathematical notation in Web pages.

For display, most math on the web is represented in a relatively unstructured way, e.g. as an image. By contrast, the applications that are most naturally the targets of mathematical paste operations generally require highly structured representations. However, the rise of important web applications such as blogs and wikis have made the association of equation images with more structured representations in metadata more common. Such data is most often a TeX-like language. Conversely, efforts to standardize exchange formats for mathematics, particularly MathML, have seen steadily increasing support in target applications. The combination of these factors now allows software tools, such as Design Science's MathType, to cut and paste mathematics naturally between a surprising variety of sources and targets. (Received September 22, 2009)