

1086-VR-821 **Albert W Schueller*** (schuelaw@whitman.edu), 345 Boyer Avenue, Whitman College, Walla Walla, WA 99362. *Publishing math texts directly to the web—some fantastic open source tools.*

Historically, publishing mathematics on the web has been difficult. Most authors simply convert their documents to pdf and post the pdf files. In recent years, several nice tools have emerged that make publishing open source texts directly in html not only possible, but desirable. An argument will be presented that through the use of MathJax, embedded Sage, and JSXGraph, on-line texts become vastly more capable than simple pdf files. The efforts at conversion of David Guichard's open source calculus text and Rob Beezer's open source linear algebra text from T_EX to html will be presented as examples. These free tools have the added benefit that they are platform independent in the sense that they will function on any computing device that has a Javascript-enabled browser (e.g. windows, mac, iPad etc). (Received September 13, 2012)