

1077-VI-2670 **Thomas E Leathrum*** (leathrum@jsu.edu). *Mobile Mathlets with Google Web Toolkit*. Preliminary report.

Google Web Toolkit (GWT) is a programming platform which compiles Java source code to JavaScript output, in particular output which (unlike standard Java) runs on mobile devices like tablets and smart phones. Available libraries for GWT provide significant compatibility with legacy Java libraries. This presentation will report on an ongoing project to port a set of approximately 50 legacy Java math applets (“mathlets”) to GWT. As part of this project, the author has written a set of GWT libraries which facilitate writing new math visualization applets in GWT. The presentation will include future directions for disseminating some of the techniques and libraries used in this project. (Received September 22, 2011)