1035-I1-857   **Kunio Mitsuma*** (`mitsuma@kutztown.edu`), Lytle 138, Department of Mathematics, Kutztown University, Kutztown, PA 19530. *Presenting Fully-Interactive Mathematics Within Web Browsers.*

Java-based applets require a considerable amount of time in coding. As a result, novice authors would stay away from them. Meantime, both Mathematica and Maple produce web-ready files. A big issue with these files is that, when students view them in web browsers, they cannot change values of variable and see what happens to the results. This makes it impossible for the students to explore and experiment with the topics discussed.

In my presentation, I will introduce to authors with virtually no coding background how to make fully-interactive web pages. When these web pages are viewed in any standard web browsers, the viewer can change the values, expressions, etc. and see the change "in realtime" in the resulting graphs and computation results.

Instructors at college and high school levels can show these interactive web pages in class, and their students can view and experiment with the identical web pages on their computers at a later time. This greatly encourages the students to explore mathematics on their computers. (Received September 17, 2007)

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