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Paul R Bouthellier* (pbouthe@pitt.edu), 504 East Main Street, Titusville, PA 16354. *Allowing Students and Educators to Create Their Own Web Based Mathematical and Statistical Simulations.*

In this talk we shall show a web site which will allow students and educators to create their own web based mathematical and statistical simulations. A web site which contains several complete statistical simulators in the form of interactive lottery tickets has been created using HTML and JavaScript/JQuery. These simulators can be used in statistics classes to illustrate concepts such as probability distributions, means, variances, and what-if analysis. The code (which is easily viewable in any browser) of each simulator is commented in detail so as to show how easy it is to create such simulations. Another page in the site provides step-by-step instructors and illustrations to allow people (even with no programming experience) to create their own simulators. The already created examples serve as complete examples. Allowing students and educators to create their own mathematical and statistical programs will allow them to explore mathematical and statistical concepts in any course they wish. (Received August 15, 2013)