

1135-VK-3237 **Christopher A Chudzicki*** (christopher.chudzicki@gmail.com). *Math3d.org: Create, save, and share 3d visualizations in your web browser—free and open source.*

I will present the webapp Math3d.org, a free, open-source tool that I developed for visualizing 3D mathematics in modern web browsers. From volumes of revolution to parametric curves and surfaces, visualizing mathematics in three dimensions is a hurdle for many students. Existing offline products provide powerful tools for 3d-visualization but often have steep learning curves and can be expensive; most existing online products are limited in scope or focus on two-dimensional visualizations. Math3d.org aims to fill this gap and provide a flexible, intuitive, and free environment to explore three-dimensional mathematics. Learners can create, animate, and share three-dimensional visualizations that run natively in modern browsers. In addition to discussing the capabilities of Math3d.org, I will present some of the ways that my students and I have used this tool in my own Multivariable Calculus and Linear Algebra courses. (Received September 27, 2017)