

1125-55-1272 **Luke Wolcott*** (luke.wolcott@gmail.com). *Interactive software for topological data analysis.*

I will demo new software for playing with 2D data sets and persistence barcodes, meant to help develop intuition for what a barcode can tell us. One can save and load data sets, easily add and remove points, and watch how the barcode changes in realtime. The software builds on the JavaPlex demo written for Processing by Mikael Vejdemo-Johansson. I will discuss possible future development for interacting with 3D live data. (Received September 15, 2016)