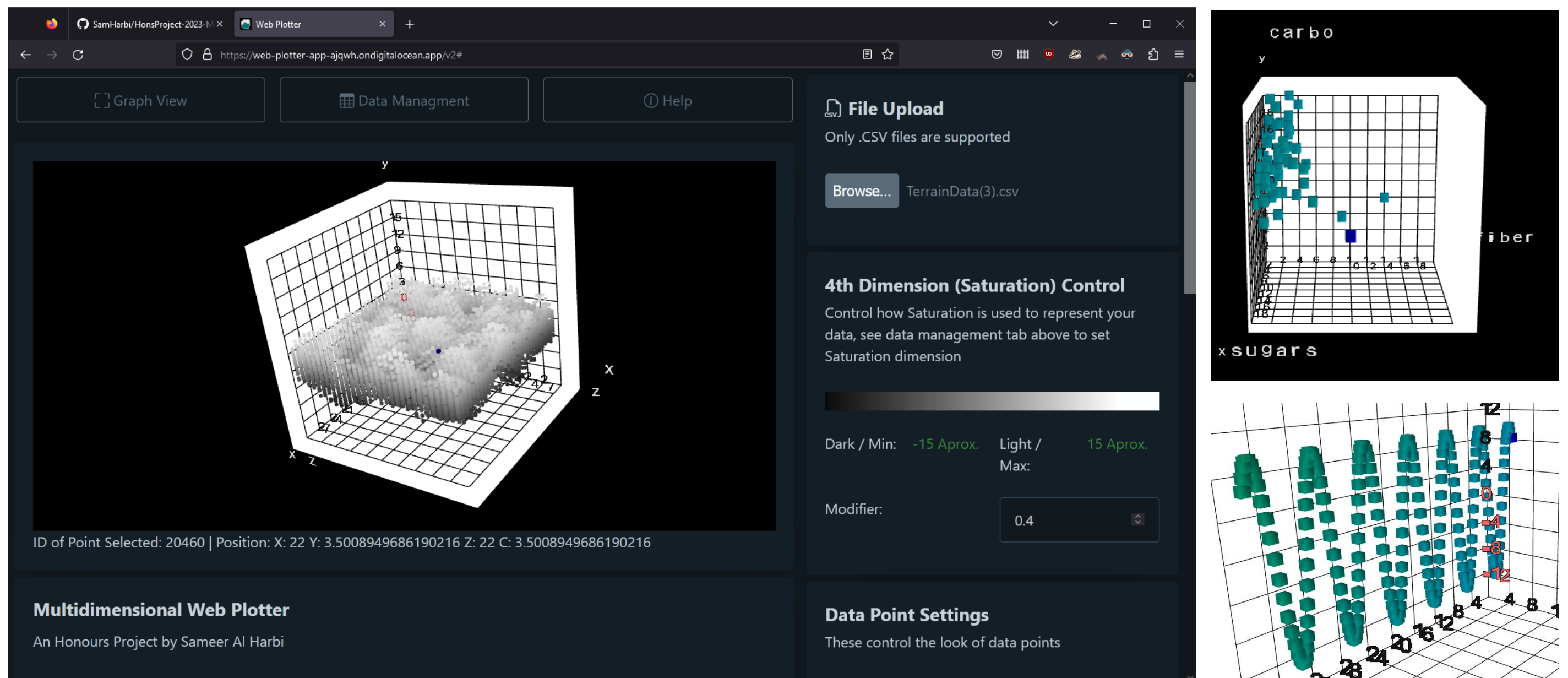


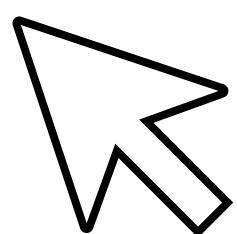
Multidimensional Data Plotter

Sameer Al Harbi

Advisor: Dr. Iain Martin



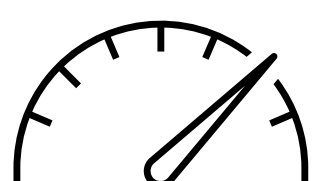
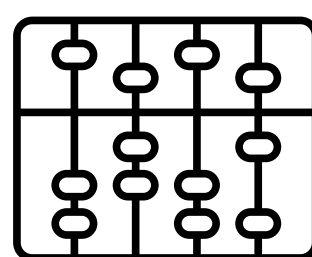
The Multi-Dimensional plotter is an accessible, web-based application that uses GPU rendering to visualize large datasets, up to 4 dimensions, through positional placement and colour saturation.



UI Controls instead of scripting allow continuous exploration of data and greater accessibility over market alternatives.



Flexible .CSV data support. Can display Integer, Decimal and Negative values. Apply any column to any dimension



High performance, Up To 40K points tested with reasonable performance

Fully Web Client-side and Built upon a custom rendering engine specifically designed for the project. Including .OBJ model loading support, multi-font capability, Colour Picking, Billboard and more



University of Dundee

Computing Honours Projects 2023