

## Data Visualization Course Points for Lab Assignments

| <i>Excercise</i>   | <i>Points</i> |
|--|---------------|
| A time series plot with approximation (gnuplot)                    | 2             |
| Regression   | 2             |
| Quadrilateral grid interpolation                                   | 4             |
| Gridless interpolation   | 4             |
| Kernel density plot/Violin plot                                    | 5             |
| 2D vector field visualization (velocity, rotation, path lines)     | 6             |
| 3D iso-surface reconstruction (Marching cubes on SPH data)         | 8             |
| Direct volume rendering  | 8             |
| Abstract data visualization (force directed graph layout or d3.js) | 6             |
| Dimension reduction  | 5             |

50 \*

\* Note that the maximum number of points you can earn from the labs is 45.