

Quiz 3: STAT 3622 Data Visualization

31 October 2016 (Monday)

Student Name: _____ Student ID: _____

1. Spatiotemporal Visualization (5pt)

Let a spatiotemporal data be represented by a matrix with rows representing space locations and columns representing time points. Describe multiple ways (at least three) to visualize such data, and explain the purpose or meaning of each way.

2. Geographical Visualization (5pt)

The University of Hong Kong (HKU) is located in the central and western district of Hong Kong island, with longitude 114.137426 and latitude 22.282793. If you are asked to visualize the map of district by polygon(s) and the location of HKU as a point with annotation (as shown below by `ggplot2`), what are the complete procedures (based on what we have learnt in class)? Describe the key `ggplot2` geoms when you answer the plotting part.

