Stat 415 Chapter 1 - Visualizing High-dimensional Data

EXAM

Name:

Student Number:

1. (10pts) What are the three principles for creating graphics for high-dimensional data? Explain each one.

2. (5pts) Explain what the term linked brushing in statistical graphics means.
3. *(5pts)* What **visual cues** would you use to detect an **outlier** if you were using a **grand tour** on high-dimensional data set?

4. This data was collected on two species (Orange and Blue), both males and females of crabs in Australia. There are five measured variables: Frontal Lobe, Rear Width, Claw Length, Carapace Width, Body Depth. From the figure below, explain what variables might be important for distinguishing between the two species, and also between the two sexes for each species.