

STA254

CORRESPONDENCE ANALYSIS AND RELATED METHODS

Michael Greenacre

Department of Statistics, Stanford University, fall 2008

Week 4: Homework exercises (to be handed in October 23)

This is a fun homework to apply PCA/biplot to a data set of your choice. Look for a small table of numerical data that can be regarded as measurements on an interval scale. Some ideas for looking for data:

- Statistics books
- Financial data in newspaper (e.g., stock indices across the latest “active” period)
- Web
- Create your own! (e.g., once I evaluated some of my own music CDs in terms of a set of attributes, ratings these on a scale of 0 to 10)

Then you should:

1. Do a PCA/biplot on these data, just like we did on the “xyz” data and the “EU” data.
2. Provide the map as well as a short interpretation of the results.
3. Give some numerical results, e.g. the coordinates used for plotting & loadings (correlations), percentages of variance,....,and a short explanation of them.

If you have any problems you have plenty of time to come to see me or contact me.

Good luck!

Michael