

















| Multiple Categorical EDA | | | Examined with tables and heat maps | | | | | |
|-------------------------------------|--------|------|------------------------------------|----|------|-----|------|-----|
| | ruc11_ | coae | | | | | | |
| ac | A1 | B1 | C1 | C2 | D1 | D2 | E1 | E2 |
| Cosmopolitan student neighbourhoods | 271 | 73 | 784 | 6 | 1 | 1 | 2 | 0 |
| Countryside living | 15 | 8 | 536 | 15 | 1082 | 80 | 2319 | 326 |
| Ethnically diverse professionals | 2158 | 123 | 2760 | 1 | 129 | 3 | 32 | 0 |
| Hard-pressed communities | 1706 | 281 | 2727 | 19 | 88 | 7 | 0 | 0 |
| Industrious communities | 1142 | 329 | 4252 | 50 | 1228 | 105 | 61 | 2 |
| Inner city cosmopolitan | 2121 | 3 | 46 | 0 | 0 | 0 | 0 | 0 |
| Multicultural living | 2724 | 131 | 983 | 0 | 0 | 0 | 0 | 0 |
| Suburban living | 1386 | 260 | 3636 | 3 | 661 | 1 | 76 | 0 |









Box Plots

• The lower and upper lines of the "box" in the center of the plot window are the 25th and 75th percentiles of the sample. The distance between the top and bottom of the box is the inter-quartile range (IQR)

- The line in the middle of the box is the sample median. If the median is not centered in the box it is an indication of skewness
- The *whiskers* are lines extending above and below the box. They show the extent of the rest of the sample (unless there are outliers). Assuming no outliers, the maximum of the sample is the top of the upper whisker. The minimum of the sample is the bottom of the lower whisker.
- A symbol, e.g. a small circle, at the top and/or bottom of the plot is an indication of an outlier in the data. This point may be the result of a data entry error, a poor measurement or perhaps a highly significant observation
- The notches in the box are a graphic confidence interval about the median of a sample. A side-by-side comparison of two notched box plots is sometimes described as the graphical equivalent of a *t*-test. Box plots do not have notches by default



















