



R Code for Examples in the book
“Statistics: The Art and Science of Learning from Data”
by Agresti, Franklin and Klingenberg, 5th edition

Chapter 11

Example 4: Happiness and Income – Chi-Squared Distribution

Reading in data:

```
mytable <- as.table(matrix(c(29, 178, 135, 83, 494, 277, 104, 314, 119),  
                           nrow = 3, byrow = TRUE,  
                           dimnames = list(income =  
                                           c('above', 'average', 'below'),  
                                           happy =  
                                           c('not', 'pretty', 'very'))))
```

To perform a chi-squared test for independence

```
mytest <- chisq.test(mytable)
```

To view the p-value

```
mytest$p.value
```

```
## [1] 5.154502e-11
```