



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

Chapter 15

Example 5: Frequent Dating and College GPA – Kruskal-Wallis Test

Reading in data

```
rare <- c(1.75, 3.15, 3.50, 3.68)
occasional <- c(2.00, 3.20, 3.44, 3.50, 3.60, 3.71, 3.80)
regular <- c(2.40, 2.95, 3.40, 3.67, 3.70, 4.00)
y <- c(rare, occasional, regular)
group <- rep(c('rare', 'occasional', 'regular'),
             times = c(length(rare), length(occasional), length(regular)))
```

To perform a Kruskal-Wallis test

```
kruskal.test(y ~ group)

##
##  Kruskal-Wallis rank sum test
##
## data:  y by group
## Kruskal-Wallis chi-squared = 0.72463, df = 2, p-value = 0.6961
```