



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 8: GRE Test Scores – Wilcoxon Signed-Rank Test

Reading in data

```
before <- c(2.5, 4, 1.5)
after <- c(3, 3.5, 3)
```

To perform a Wilcoxon signed-rank test

```
wilcox.test(before, after, paired = TRUE, alternative = 'greater')

## Warning in wilcox.test.default(before, after, paired = TRUE, alternative = 
## "greater"): cannot compute exact p-value with ties

##
## Wilcoxon signed rank test with continuity correction
##
## data: before and after
## V = 1.5, p-value = 0.8618
## alternative hypothesis: true location shift is greater than 0
```