**R Code for Examples in the book**



***“Statistics: The Art and Science of Learning from Data”***

**by Agresti, Franklin and Klingenberg, 5th edition**

**Chapter 10**

**Example 3: Standard Error for the Difference of Two Sample Proportions**

## Reading in data for the first proportion

x\_1 <- 347  
n\_1 <- 11535  
phat\_1 <- x\_1 / n\_1

## Reading in data for the second proportion

x\_2 <- 327  
n\_2 <- 14035  
phat\_2 <- x\_2 / n\_2

## To compute the mean of the difference

mean <- phat\_1 - phat\_2  
mean

## [1] 0.006783462

## To compute the standard error of the difference

se <- sqrt((phat\_1 \* (1 - phat\_1) / n\_2) + (phat\_2 \* (1 - phat\_2) / n\_2))  
se

## [1] 0.001923612