



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

Chapter 8

Example 2: A Wife’s Career – Standard Error and Margin of Error

Reading in sample proportion data

```
n <- 1545  
phat <- 398 / n
```

To compute the standard error

```
se <- sqrt(phat * (1 - phat) / n)  
se  
## [1] 0.01112578
```

To compute the margin of error for a confidence level of 95%

```
me <- 1.96 * se  
me  
## [1] 0.02180653
```