# Errata for Quantitative Social Science: An Introduction (Princeton University Press, 2017)

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## Chapter 4

### Section 4.3.3

- pages 170 – 176. Throughout this section, the `primary2008` variable should be labeled as `primary2006` so that it matches with the `social.csv` data file introduced in Chapter 2. For now, we include another version of `social.csv` in this chapter's folder so that users can

## Chapter 6

### Section 6.2.3

- The original code for the Monty Hall problem does not return the right answer when the order of doors is changed. This is due to the fact that the `sample()` function behaves differently when an integer is supplied as an input. The correct code that avoids this problem is below:

```
sims <- 1000
doors <- c("goat", "goat", "car")
result.switch <- result.noswitch <- rep(NA, sims)

for (i in 1:sims) {
    ## randomly choose the initial door
    first <- sample(1:3, size = 1)
    result.noswitch[i] <- doors[first]
    remain <- doors[-first] # remaining two doors
    ## Monty chooses one door with a goat
    if (doors[first] == "car") # two goats left
        monty <- sample(1:2, size=1)
    else # one goat and one car left
        monty <- (1:2)[remain == "goat"]
    result.switch[i] <- remain[-monty]
}

mean(result.noswitch == "car")
```

```
## [1] 0.324
```

```
mean(result.switch == "car")
```

```
## [1] 0.676
```

# Chapter 7

## Section 7.1.3

- page 327, last paragraph. Change "such that $P(Z > \alpha/2) = 1 - P(Z \leq \alpha/2) = 1 - \alpha/2$" to "such that $P(Z > z_{\alpha/2}) = 1 - P(Z \leq z_{\alpha/2}) = 1 - \alpha/2$"

- page 329, last paragraph. Change "Consider the probability that $(1 - \alpha/2) \times 100\%$ confidence interval" to "Consider the probability that $(1 - \alpha) \times 100\%$ confidence interval"

- page 330, Step 3 in the box. Change "Compute the critical value $z_{\alpha/2}$ as the $(1 - \alpha) \times 100$ percentile value" to "Compute the critical value $z_{\alpha/2}$ as the $(1 - \alpha/2) \times 100$ percentile value"

# Acknowledgements