

Background

Tasks

Data Visualizations

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case study 7-1

Code ▾

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Code

```
## — Attaching packages —————  
——— tidyverse 1.2.1 —
```

```
## ✓ ggplot2 3.1.0.9000      ✓ purrr 0.2.5  
## ✓ tibble 2.0.0           ✓ dplyr 0.8.0.1  
## ✓ tidyr 0.8.2            ✓ stringr 1.3.1  
## ✓ readr 1.3.1           ✓ forcats 0.3.0
```

```
## — Conflicts —————  
tidyverse_conflicts() —  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()
```

Code

Background

In 1978 Susan Easton Black penned an article in the Ensign titled Even statistically, he is the dominant figure of the Book of Mormon. which makes some statistical claims about the Book of Mormon. With our “string” skills we are going to check her result and build an improved statistic using number of words between references.

[Code](#)[Code](#)[Code](#)[Code](#)

Tasks

- Get the scripture and savior name data into R
- Download the data from <http://scriptures.nephi.org/downloads/lds-scriptures.csv.zip> (<http://scriptures.nephi.org/downloads/lds-scriptures.csv.zip>)
- Read in the .csv file that was in the zip file and examine the structure of the data
- Use

```
read_rds(gzcon(url("https://byuistats.github.io/M335/data/BoM_SaviorNames.rds\n(https://byuistats.github.io/M335/data/BoM_SaviorNames.rds)")))
```

 to download and load the Savior names table into R
- Use the list of Savior names and the Book of Mormon verses to figure out the average number of words between references to the Savior
- Find each instance of a Savior name in the Book of Mormon
- Split on those instances and then count the number of words between each instance
- Use the example code below for some hints on how to tackle this task
- Report the average number of words between each Savior name

Data Visualizations

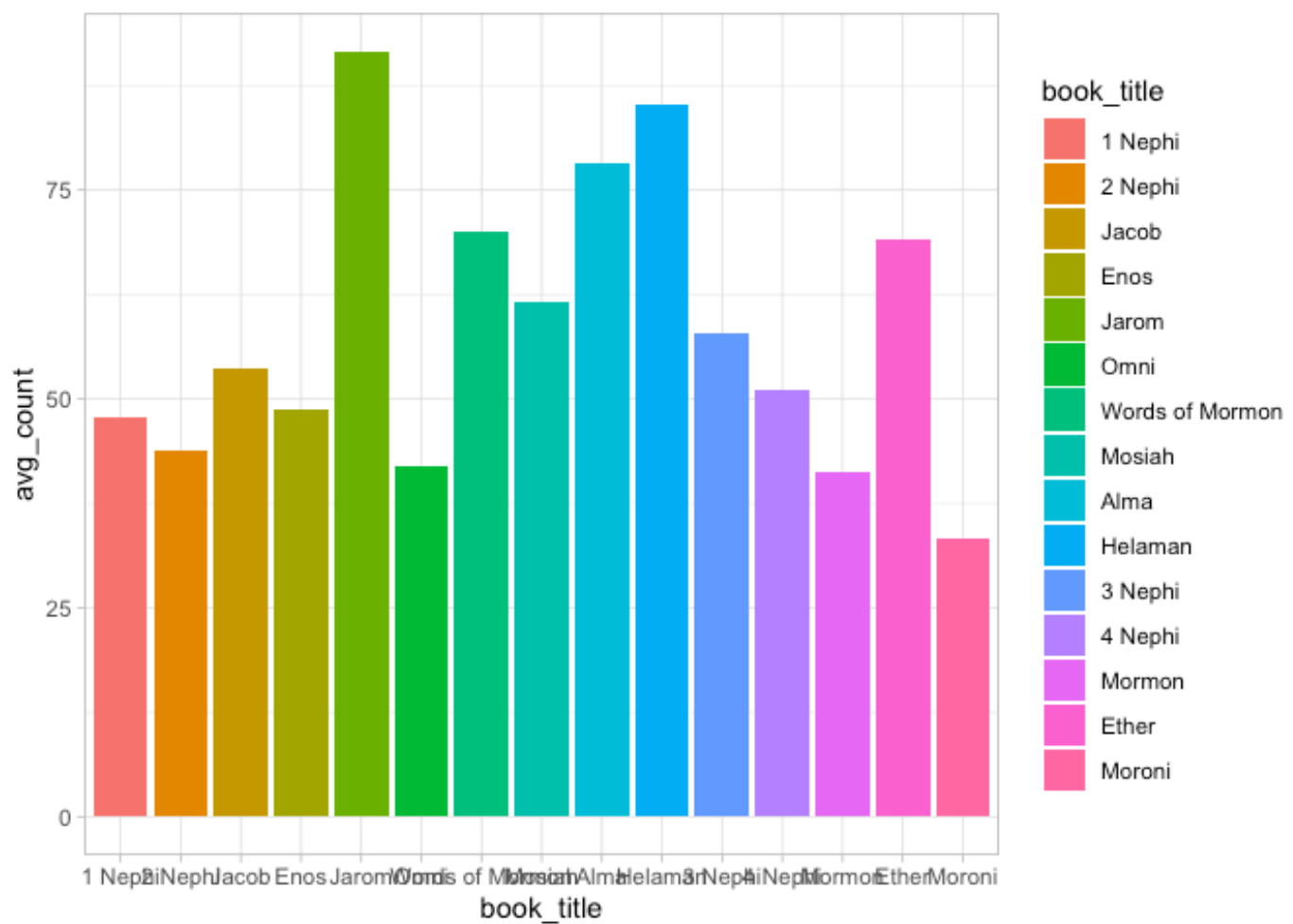
[Code](#)[Code](#)

book_title

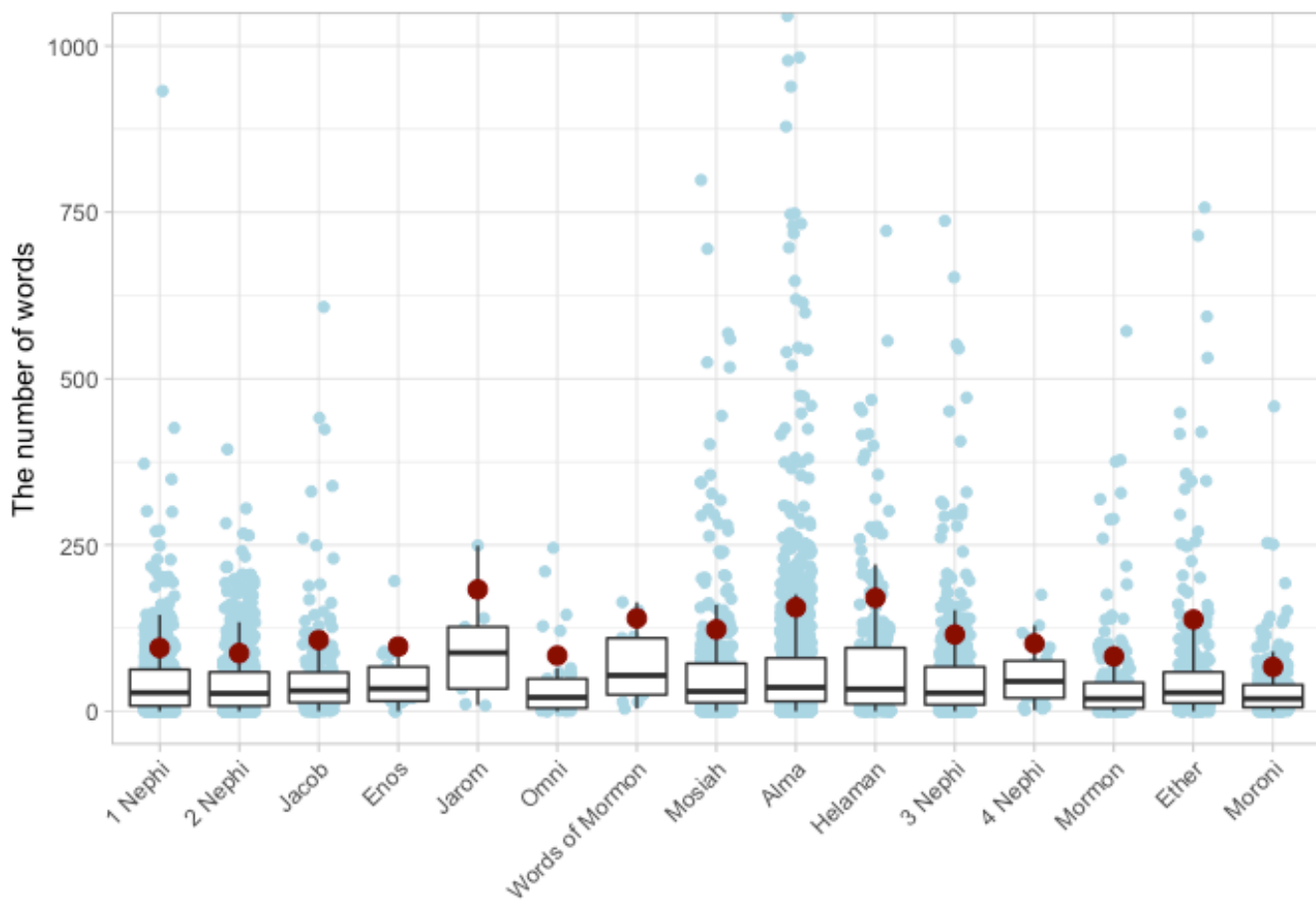
avg_count

1 Nephi	47.72
2 Nephi	43.79
Jacob	53.65
Enos	48.74
Jarom	91.56
Omni	41.95
Words of Mormon	69.92
Mosiah	61.57
Alma	78.13
Helaman	85.27
3 Nephi	57.78
4 Nephi	50.97
Mormon	41.32
Ether	69.04
Moroni	33.36

Code



Code



Code

