

DSC520_Week6_Assignment01

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Contents

| | |
|-----------------------------------|----------|
| Favorite Foods | 2 |
| Images | 2 |
| Quote | 3 |
| Equation | 3 |
| Citations | 3 |
| Inline Code | 3 |
| NY Times COVID-19 Data | 3 |
| R4DS Height vs Earnings | 4 |
| Tables | 4 |
| Knitr Table with Kable | 5 |
| Pandoc Table | 5 |
| References | 5 |

All the following is sourced from Lander (2014), Field, Miles, and Field (2012)

```
if(!require('pander')) {  
  install.packages('pander')  
  library('pander')  
}
```

Loading required package: pander

Warning: package 'pander' was built under R version 4.2.1

```
if(!require('ggplot2')) {  
  install.packages('ggplot2')  
  library('ggplot2')  
}
```

Loading required package: ggplot2

Warning: package 'ggplot2' was built under R version 4.2.1

```
if(!require('knitr')) {  
  install.packages('knitr')  
  library('knitr')  
}
```

Loading required package: knitr

```
if(!require('tinytex')) {  
  install.packages('tinytex')  
  library('tinytex')  
}
```

Loading required package: tinytex

Favorite Foods

Pizza

Images



Quote

One day at a time

Equation

$$E = mc^2$$

Citations

Field, Miles, and Field (2012), Lander (2014)

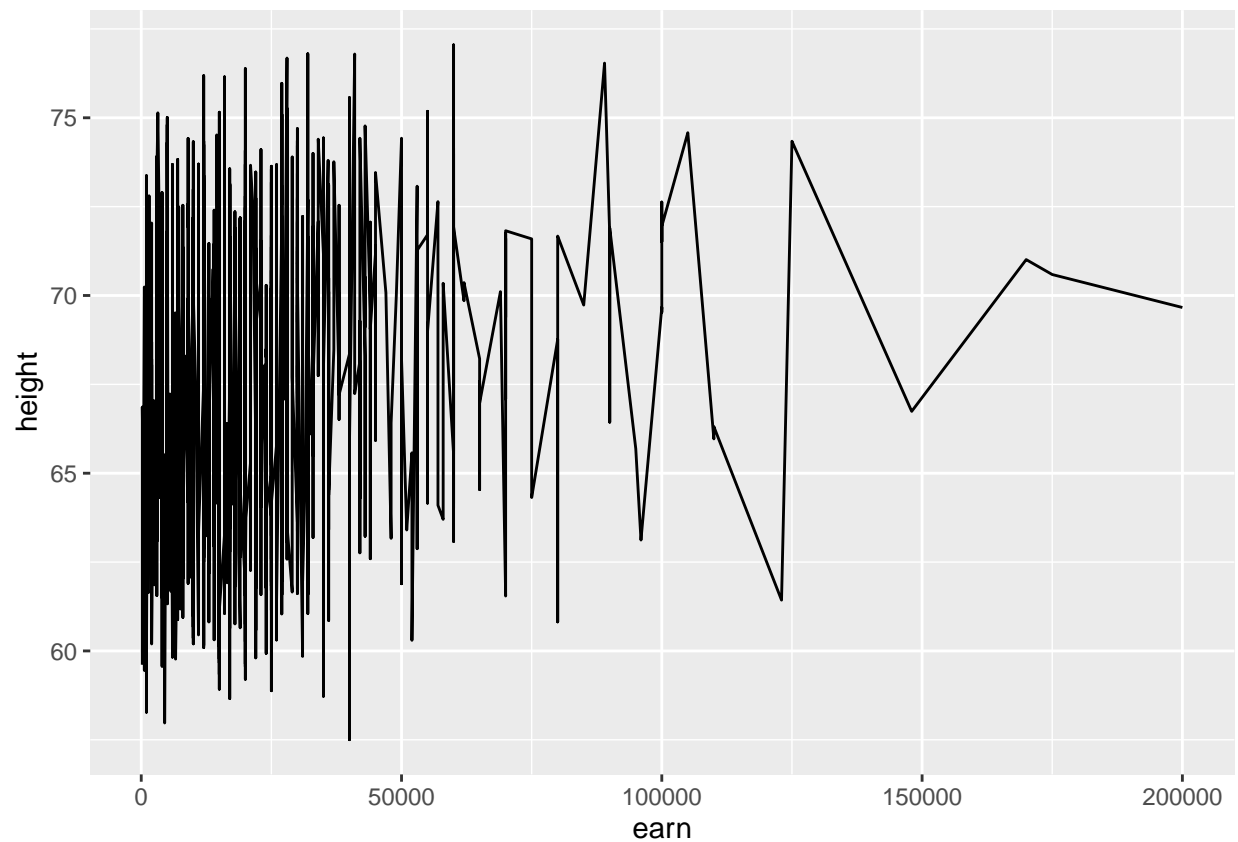
Inline Code

NY Times COVID-19 Data

```
## NY Times COVID-19 Data
covid_df <- read.csv("C:/Users/chris/dsc520/data/nytimes/covid-19-data/us-states.csv")
ny_df <- covid_df[ which( covid_df$state == "New York"), ]
head(ny_df)
```

```
##           date      state fips cases deaths
## 247 2020-03-01 New York   36     1      0
## 262 2020-03-02 New York   36     1      0
## 277 2020-03-03 New York   36     2      0
## 294 2020-03-04 New York   36    11      0
## 314 2020-03-05 New York   36    22      0
## 339 2020-03-06 New York   36    44      0
```

R4DS Height vs Earnings



Tables

```
# Tables
name <- c("Aragon", "Bilbo", "Frodo", "Galadriel", "Sam", "Gandalf", "Legolas", "Sauron", "Gollum")
race <- c("Men", "Hobbit", "Hobbit", "Elf", "Hobbit", "Maia", "Elf", "Maia", "Hobbit")
in_fellowship <- c(TRUE, FALSE, TRUE, FALSE, TRUE, TRUE, TRUE, FALSE, FALSE)
ring_bearer <- c(FALSE, TRUE, TRUE, FALSE, TRUE, TRUE, FALSE, TRUE, TRUE)
age <- c(88, 129, 51, 7000, 36, 2019, 2931, 7052, 589)

characters_df <- data.frame(name, race, in_fellowship, ring_bearer, age)
head(characters_df)
```

| ## | name | race | in_fellowship | ring_bearer | age |
|------|-----------|--------|---------------|-------------|------|
| ## 1 | Aragon | Men | TRUE | FALSE | 88 |
| ## 2 | Bilbo | Hobbit | FALSE | TRUE | 129 |
| ## 3 | Frodo | Hobbit | TRUE | TRUE | 51 |
| ## 4 | Galadriel | Elf | FALSE | FALSE | 7000 |
| ## 5 | Sam | Hobbit | TRUE | TRUE | 36 |
| ## 6 | Gandalf | Maia | TRUE | TRUE | 2019 |

Knitr Table with Kable

```
## Knitr Table with Kable
knitr::kable(head(characters_df), "simple")
```

| name | race | in_fellowship | ring_bearer | age |
|-----------|--------|---------------|-------------|------|
| Aragon | Men | TRUE | FALSE | 88 |
| Bilbo | Hobbit | FALSE | TRUE | 129 |
| Frodo | Hobbit | TRUE | TRUE | 51 |
| Galadriel | Elf | FALSE | FALSE | 7000 |
| Sam | Hobbit | TRUE | TRUE | 36 |
| Gandalf | Maia | TRUE | TRUE | 2019 |

Pandoc Table

```
## Pandoc Table
cars <- characters_df[, 1:3]
cars <- head(cars)
pandoc.table(cars, style = "grid")
```

```
##
##
## +-----+-----+-----+
## |  name   |  race | in_fellowship |
## +-----+-----+-----+
## |  Aragon  |  Men  |      TRUE     |
## +-----+-----+-----+
## |   Bilbo  | Hobbit |      FALSE    |
## +-----+-----+-----+
## |   Frodo  | Hobbit |      TRUE     |
## +-----+-----+-----+
## | Galadriel |  Elf  |      FALSE    |
## +-----+-----+-----+
## |    Sam   | Hobbit |      TRUE     |
## +-----+-----+-----+
## | Gandalf  | Maia  |      TRUE     |
## +-----+-----+-----+
```

References

- Field, A., J. Miles, and Z. Field. 2012. *Discovering Statistics Using r*. SAGE Publications. <https://books.google.com/books?id=wd2K2zC3swIC>.
- Lander, J. P. 2014. *R for Everyone: Advanced Analytics and Graphics*. Addison-Wesley Data and Analytics Series. Addison-Wesley. <https://books.google.com/books?id=3eBVAgAAQBAJ>.