

# Project

SeanJ- Volcaetus

4/3/2022

## Data

From TidyTuesday URL:<https://github.com/rfordatascience/tidytuesday/tree/master/data/2020/2020-07-07>

```
coffee_ratings <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/data/2020/2020-07-07/2020-07-07-coffee_ratings.csv')
```

```
##
## -- Column specification -----
## cols(
##   .default = col_character(),
##   total_cup_points = col_double(),
##   number_of_bags = col_double(),
##   aroma = col_double(),
##   flavor = col_double(),
##   aftertaste = col_double(),
##   acidity = col_double(),
##   body = col_double(),
##   balance = col_double(),
##   uniformity = col_double(),
##   clean_cup = col_double(),
##   sweetness = col_double(),
##   cupper_points = col_double(),
##   moisture = col_double(),
##   category_one_defects = col_double(),
##   quakers = col_double(),
##   category_two_defects = col_double(),
##   altitude_low_meters = col_double(),
##   altitude_high_meters = col_double(),
##   altitude_mean_meters = col_double()
## )
## i Use `spec()` for the full column specifications.
summary(coffee_ratings)
```

```
## total_cup_points  species          owner          country_of_origin
## Min.   : 0.00    Length:1339    Length:1339    Length:1339
## 1st Qu.:81.08    Class :character Class :character Class :character
## Median :82.50    Mode  :character Mode  :character Mode  :character
## Mean   :82.09
## 3rd Qu.:83.67
## Max.   :90.58
##
## farm_name        lot_number        mill          ico_number
## Length:1339      Length:1339      Length:1339    Length:1339
```

```

## Class :character    Class :character    Class :character    Class :character
## Mode :character     Mode :character     Mode :character     Mode :character
##
##
##
##
##      company          altitude          region          producer
## Length:1339         Length:1339         Length:1339         Length:1339
## Class :character     Class :character     Class :character     Class :character
## Mode :character      Mode :character      Mode :character      Mode :character
##
##
##
##
## number_of_bags      bag_weight          in_country_partner  harvest_year
## Min. : 0.0          Length:1339         Length:1339         Length:1339
## 1st Qu.: 14.0        Class :character     Class :character     Class :character
## Median : 175.0       Mode :character      Mode :character      Mode :character
## Mean : 154.2
## 3rd Qu.: 275.0
## Max. :1062.0
##
## grading_date        owner_1          variety          processing_method
## Length:1339         Length:1339         Length:1339         Length:1339
## Class :character     Class :character     Class :character     Class :character
## Mode :character      Mode :character      Mode :character      Mode :character
##
##
##
##
##      aroma          flavor          aftertaste          acidity          body
## Min. :0.000        Min. :0.00         Min. :0.000         Min. :0.000         Min. :0.000
## 1st Qu.:7.420       1st Qu.:7.33        1st Qu.:7.250       1st Qu.:7.330       1st Qu.:7.330
## Median :7.580       Median :7.58        Median :7.420       Median :7.580       Median :7.500
## Mean :7.567         Mean :7.52          Mean :7.401         Mean :7.536         Mean :7.517
## 3rd Qu.:7.750       3rd Qu.:7.75        3rd Qu.:7.580       3rd Qu.:7.750       3rd Qu.:7.670
## Max. :8.750         Max. :8.83          Max. :8.670         Max. :8.750         Max. :8.580
##
##
##      balance          uniformity          clean_cup          sweetness
## Min. :0.000        Min. : 0.000        Min. : 0.000        Min. : 0.000
## 1st Qu.:7.330       1st Qu.:10.000      1st Qu.:10.000      1st Qu.:10.000
## Median :7.500       Median :10.000      Median :10.000      Median :10.000
## Mean :7.518         Mean : 9.835        Mean : 9.835        Mean : 9.857
## 3rd Qu.:7.750       3rd Qu.:10.000      3rd Qu.:10.000      3rd Qu.:10.000
## Max. :8.750         Max. :10.000        Max. :10.000        Max. :10.000
##
##
##      cupper_points      moisture          category_one_defects  quakers
## Min. : 0.000          Min. :0.000000     Min. : 0.0000        Min. : 0.0000
## 1st Qu.: 7.250         1st Qu.:0.09000    1st Qu.: 0.0000      1st Qu.: 0.0000
## Median : 7.500         Median :0.11000     Median : 0.0000      Median : 0.0000
## Mean : 7.503           Mean :0.08838       Mean : 0.4795        Mean : 0.1734
## 3rd Qu.: 7.750         3rd Qu.:0.12000     3rd Qu.: 0.0000      3rd Qu.: 0.0000
## Max. :10.000           Max. :0.28000       Max. :63.0000        Max. :11.0000
##
##                                     NA's :1

```

```
##      color      category_two_defects  expiration      certification_body
## Length:1339    Min.      : 0.000      Length:1339    Length:1339
## Class :character 1st Qu.: 0.000      Class :character Class :character
## Mode  :character Median : 2.000      Mode  :character Mode  :character
##                  Mean   : 3.556
##                  3rd Qu.: 4.000
##                  Max.   :55.000
##
## certification_address certification_contact unit_of_measurement
## Length:1339          Length:1339          Length:1339
## Class :character      Class :character      Class :character
## Mode  :character      Mode  :character      Mode  :character
##
##
##
## altitude_low_meters altitude_high_meters altitude_mean_meters
## Min.      :      1      Min.      :      1      Min.      :      1
## 1st Qu.: 1100      1st Qu.: 1100      1st Qu.: 1100
## Median : 1311      Median : 1350      Median : 1311
## Mean   : 1751      Mean   : 1799      Mean   : 1775
## 3rd Qu.: 1600      3rd Qu.: 1650      3rd Qu.: 1600
## Max.   :190164      Max.   :190164      Max.   :190164
## NA's   :230        NA's   :230        NA's   :230
```

A few NA's.

1 within quakers

230 ins Altitude low/high/mean