

Stat 243 – Homework 00

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January 11, 2022

Identify different sets of value

- Categorical variable: sex
- Discrete quantitative variable: numchildren
- Continuous quantitative variable: gpa

Command, displaying both the command and its results

```
# import the .csv data set and store it in teachingData.
teachingData <- read.csv("https://scofield.site/teaching/data/csv/ssurv.csv")

# show only cases where smoker displays smoke and specified variables of these cases.
subset(filter((teachingData), smoker == "Smoke"), select = c(sex, numchildren, gpa))
```

```
##      sex numchildren  gpa
## 1     M           1 2.600
## 2     M           3 2.200
## 3     M           4 2.987
## 4     M           7   NA
## 5     M           4 2.900
## 6     M           4 3.300
## 7     F           4 3.470
## 8     M           3 3.750
## 9     M           5 3.300
## 10    M           4 3.400
## 11    M           3 3.500
## 12    F           2 2.500
## 13    F           4 3.260
## 14    M           5   NA
## 15    M           4 1.300
## 16    M           4 2.700
## 17    F           2 2.336
## 18    F           2 2.600
```

Formula for sample standard deviation

$$s = \sqrt{\frac{1}{n-1} \sum_{i=1}^n (x_i - \bar{x})^2}$$