Find a dataset that you find interesting. You can look at a variety of sources for data including:

Once you have identified a dataset, explain how you accessed it. What links did you click? Was there any registration required? Did you download directly or was there an online system you navigated?

* + <https://www.census.gov>
  + Topics>Education> Education Attainment>Education Attainment in the United States:2017>Table 1. Education Attainment of the Population 18 years and Over, by Age, Sex, Race, and Hispanic Origin: 2017> All Races
  + There was no registration needed and document was opened in excel. I deleted both genders and male to focus on female data. I reformatted table to take unnecessary spacing and imported to R from my computer using an excel document.

**In R: Import the data. Provide a list of variables in the dataset**

[1] "Age" "Total" "None"

[4] "1st - 4th grade" "5th - 6th grade" "7th - 8th grade"

[7] "9th grade" "10th grade" "11th grade2"

[10] "High school graduate" "Some college, no degree" "Associate's degree, occupational"

[13] "Associate's degree, academic" "Bachelor's degree" "Master's degree"

[16] "Professional degree" "Doctoral degree"

**What is the structure of the data? Which variables are character and which are numeric?**

Classes ‘tbl\_df’, ‘tbl’ and 'data.frame': 14 obs. of 17 variables:

$ Age : chr ".18 years and over" "..18 to 24 years" ".25 years and over" "..25 to 29 years" ...

$ Total : num 127155 14559 112597 11335 10795 ...

$ None : num 410 29 380 5 22 33 28 25 36 41 ...

$ 1st - 4th grade : num 761 24 737 29 28 35 43 56 57 75 ...

$ 5th - 6th grade : num 1575 27 1548 37 94 ...

$ 7th - 8th grade : num 1800 59 1740 82 129 118 145 135 117 126 ...

$ 9th grade : num 1746 120 1626 110 157 ...

$ 10th grade : num 2056 271 1785 161 110 ...

$ 11th grade2 : num 4923 1536 3388 323 261 ...

$ High school graduate : num 35010 3794 31216 2678 2359 ...

$ Some college, no degree : num 24247 5721 18525 2126 1860 ...

$ Associate's degree, occupational : num 5399 364 5035 492 481 ...

$ Associate's degree, academic : num 8278 654 7624 832 734 ...

$ Bachelor's degree : num 26145 1788 24357 3264 2864 ...

$ Master's degree : num 11680 137 11543 969 1294 ...

$ Professional degree : num 1426 19 1407 110 167 ...

$ Doctoral degree : num 1700 16 1685 116 235 ...

**Describe the data through Central Tendencies:**

Give me the mean, median, and mode of **five variables**.

High School Graduate: Mean(7231), Median (2897), Mode(Mode does not exist)

Associate’s degree, Academic: Mean(1727.2), Median(740), Mode(Mode does not exist)

Bachelor’s degree: Mean(5475), Median(2354), Mode (Mode does not exist)

Master’s degree: Mean(2493), Median(1030), Mode(Mode does not exist)

Doctoral degree: Mean(363), Median(155), Mode(Mode does not exist)

**Describe the data through variation:**

Doctoral Degree: Variance(320260.9), Range(1684), Standard Deviation(565.916)Choose one variable and give me:

**Histogram**



**Stem-leaf Plot**

The decimal point is 3 digit(s) to the right of the |

0 | 011111122222

0 |

1 |

1 | 77

**Boxplot**

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