


SPSS Report

[27/8/2021]

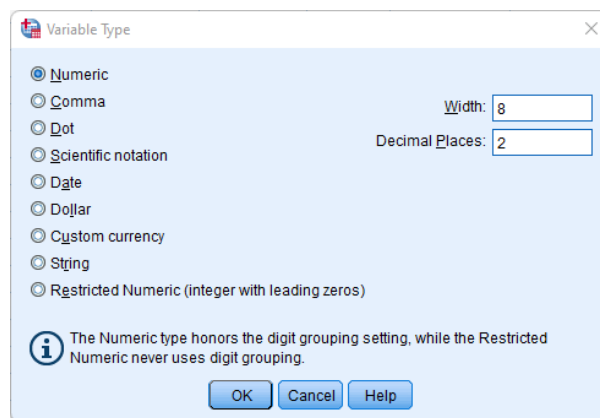
Variable View



| | Name | Type | Width | Decimals | Label | Values | Missing | Columns | Align | Measure | Role |
|---|------|---------|-------|----------|-------|--------|---------|---------|-------|---------|-------|
| 1 | Var1 | Numeric | 8 | 2 | | None | None | 8 | Right | Scale | Input |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |

Name - Name of the variable.

Type - The types of values the variable can take.



Variable Type

☒ Numeric
☐ Comma
☐ Dot
☐ Scientific notation
☐ Date
☐ Dollar
☐ Custom currency
☐ String
☐ Restricted Numeric (integer with leading zeros)

Width: 8
Decimal Places: 2

The Numeric type honors the digit grouping setting, while the Restricted Numeric never uses digit grouping.

OK Cancel Help

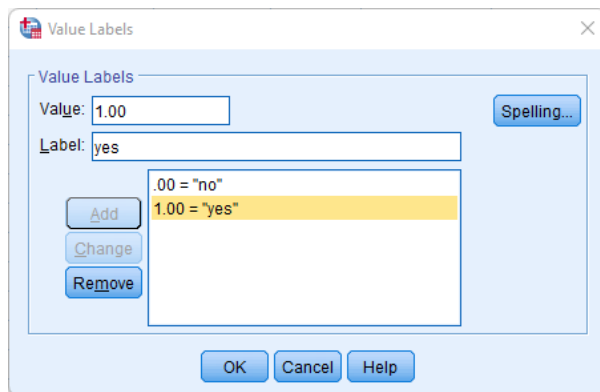
Variable type selector popup window

Width - Specifies the column width for the display of variables in the Data Editor.

Decimals - No. of decimal places permitted by the variable.

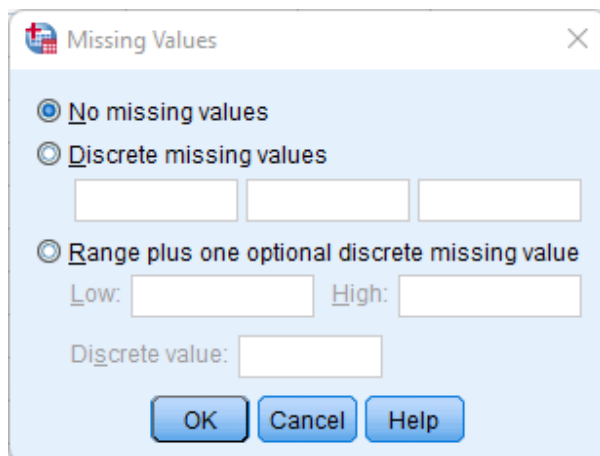
Label - Description for the variable.

Values - Values which can be taken by the variable.



Value editor window

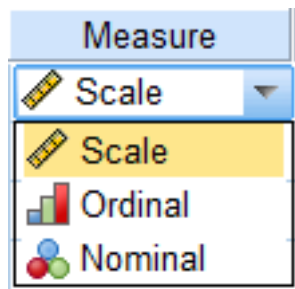
Missing - Specify what is to be entered for a value that is missing for a variable in a case.



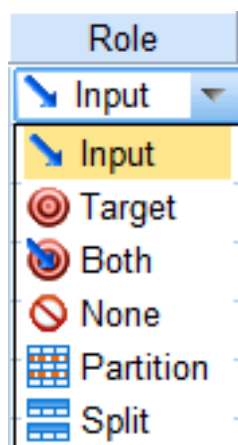
Missing values editor

Align - Alignment of the values in the cell of the Data Editor view.

Measure - SPSS measurement levels are limited to nominal(i.e. categorical), ordinal(i.e. ordered like 1st, 2nd, 3rd...), or scale. Essentially, a scale variable is a measurement variable.



Role - Specifies the variable's role in analysis.



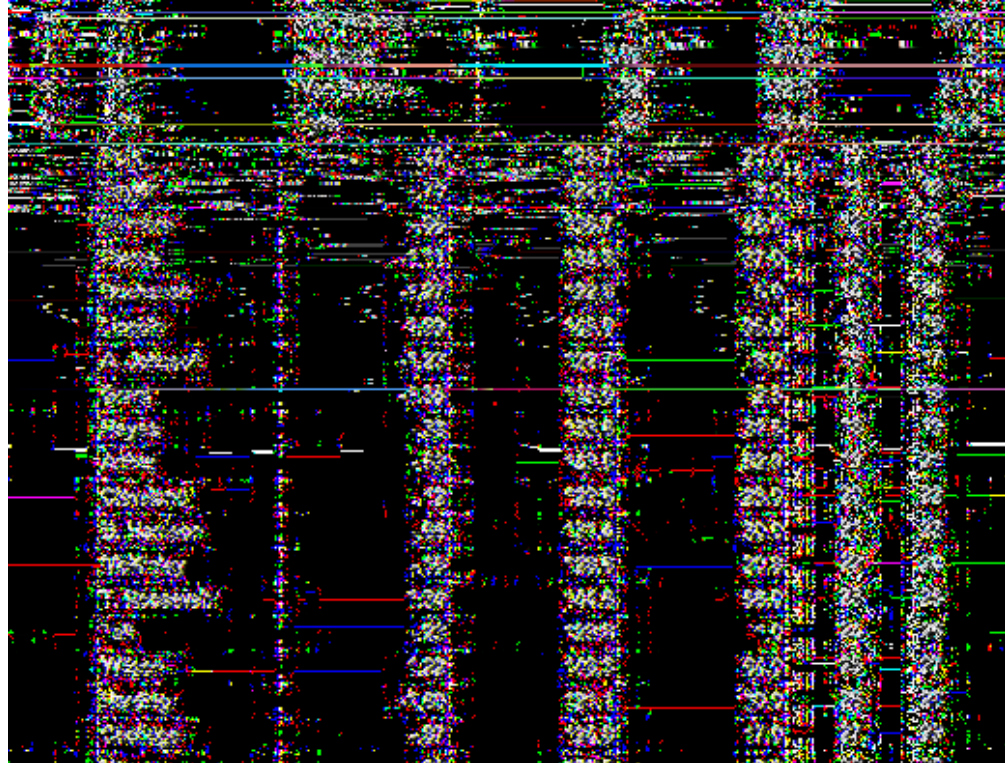
Classwork

Variable View

| | Name | Type | Width | Decimals | Label | Values | Missing | Columns | Align | Measure | Role |
|---|-----------|---------|-------|----------|-------------------|--------|---------|---------|-------|---------|-------|
| 1 | President | String | 25 | 0 | | None | None | 8 | Left | Nominal | Input |
| 2 | MB_Rating | Numeric | 25 | 2 | MB Rating of p... | None | None | 8 | Right | Scale | Input |
| 3 | ID | Numeric | 25 | 1 | | None | None | 8 | Right | Scale | Input |

Data View

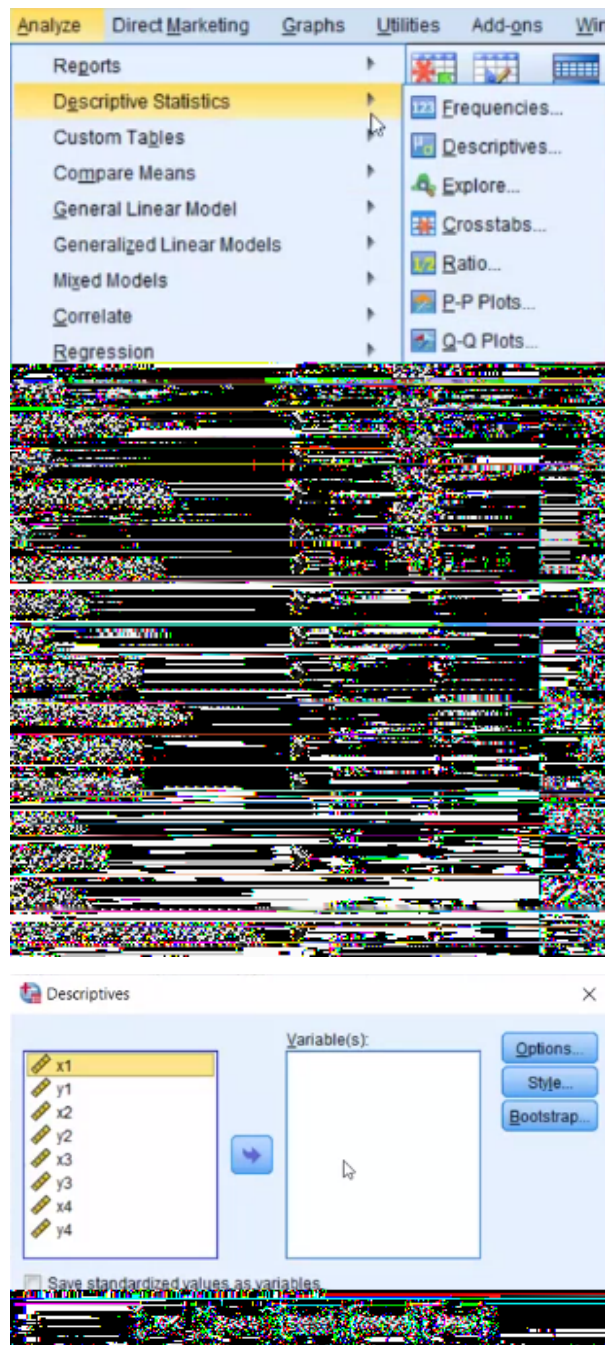
| | V1 | president | mbrating | IQ | Openness |
|---|----|------------|----------|-------|----------|
| 1 | 1 | Washington | 1.87 | 130.0 | 14.0 |
| 2 | 2 | J. Adams | .59 | 150.0 | 61.0 |
| 3 | 3 | Jefferson | 1.52 | 160.0 | 99.1 |
| 4 | 4 | Madison | .23 | 150.0 | 62.0 |
| 5 | 5 | Monroe | .19 | 120.7 | 3.7 |



[1/2/2021]

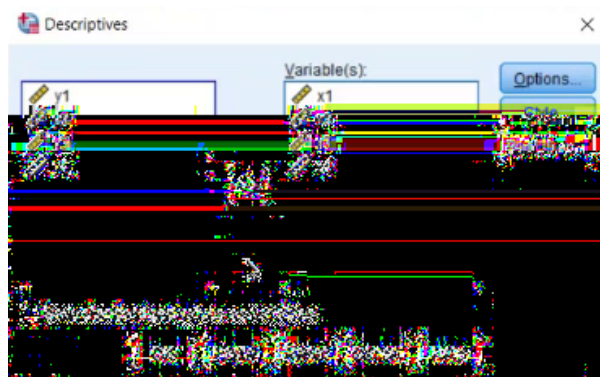
Descriptive Analysis

The Descriptives menu lies under *Analyze* → *Descriptive Statistics* → *Descriptives...*

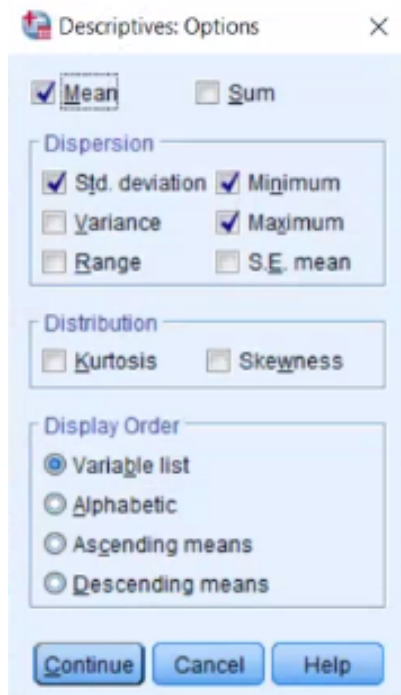


The descriptives popup window

Once the window is open, select the variables you want to perform the analysis on and click the arrow in the middle to move them to the variables side.



The descriptives window after moving the variables



Options available for descriptive analysis

Chart Builder

To build a graph, Chart Builder is used which is available under **Graphs** → **Chart Builder**

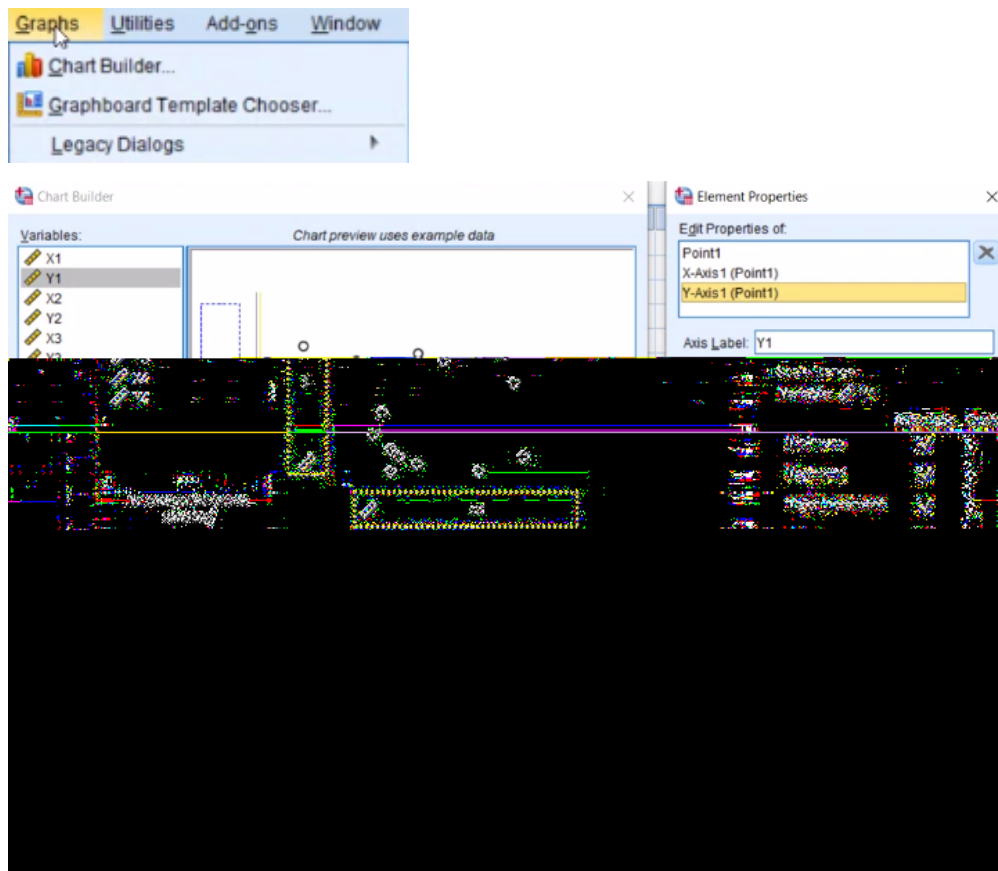


Chart Builder Window

Vari ables - A list of variables which can be used to build the graph.

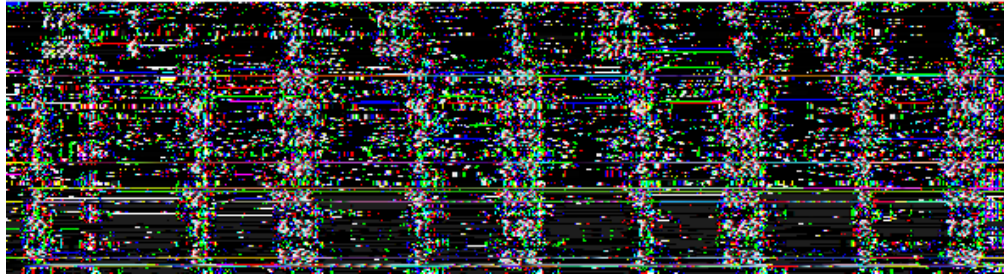
Gallery - Types of plots for the user to choose from.

Element Properties - This window allows the variables to be modified in the graph.

Classwork

Data View

| | x1 | y1 | x2 | y2 | x3 | y3 | x4 | y4 |
|---|----|------|----|------|----|------|----|------|
| 1 | 10 | 8.04 | 10 | 9.14 | 10 | 7.46 | 8 | 6.58 |
| 2 | 8 | 6.95 | 8 | 8.14 | 8 | 6.77 | 8 | 5.76 |



Output View

Descriptives

[DataSet1] C:\Users\Abhirup Moitra\Pictures\anscombe.sav

| Descriptive Statistics | | | | | | | | | | |
|------------------------|-----------|-----------|-----------|-----------|----------------|-----------|-----------|------------|-----------|------------|
| | N | Minimum | Maximum | Mean | Std. Deviation | Variance | Skewness | | Kurtosis | |
| | Statistic | Statistic | Statistic | Statistic | Statistic | Statistic | Statistic | Std. Error | Statistic | Std. Error |
| X1 | 11 | 4.00 | 14.00 | 9.0000 | 3.31662 | 11.000 | .000 | .661 | -1.200 | 1.279 |
| X2 | 11 | 4.00 | 14.00 | 9.0000 | 3.31662 | 11.000 | .000 | .661 | -1.200 | 1.279 |
| X3 | 11 | 4.00 | 14.00 | 9.0000 | 3.31662 | 11.000 | .000 | .661 | -1.200 | 1.279 |
| X4 | 11 | 8.00 | 19.00 | 9.0000 | 3.31662 | 11.000 | 3.317 | .661 | 11.000 | 1.279 |
| Valid N (listwise) | 11 | | | | | | | | | |

```
DESCRIPTIVES VARIABLES=Y1 Y2 Y3 Y4
  /STATISTICS=MEAN STDDEV VARIANCE MIN MAX KURTOSIS SKEWNESS.
```

Descriptives

| Descriptive Statistics | | | | | | | | | | |
|------------------------|-----------|-----------|-----------|-----------|----------------|-----------|-----------|------------|-----------|------------|
| | N | Minimum | Maximum | Mean | Std. Deviation | Variance | Skewness | | Kurtosis | |
| | Statistic | Statistic | Statistic | Statistic | Statistic | Statistic | Statistic | Std. Error | Statistic | Std. Error |
| X1 | 11 | 4.00 | 14.00 | 9.0000 | 3.31662 | 11.000 | .000 | .661 | -1.200 | 1.279 |
| X2 | 11 | 4.00 | 14.00 | 9.0000 | 3.31662 | 11.000 | .000 | .661 | -1.200 | 1.279 |
| X3 | 11 | 4.00 | 14.00 | 9.0000 | 3.31662 | 11.000 | .000 | .661 | -1.200 | 1.279 |
| X4 | 11 | 8.00 | 19.00 | 9.0000 | 3.31662 | 11.000 | 3.317 | .661 | 11.000 | 1.279 |
| Valid N (listwise) | 11 | | | | | | | | | |

GGraph

