

Your temporary usage period for IBM SPSS Statistics will expire in 10 days.

Your license will expire in 10 days.

GET

FILE='C:\Users\Bahador\Desktop\Analysis\Filter\Filter_Time.sav'.

DATASET NAME DataSet1 WINDOW=FRONT.

GLM Bar_Nom_Num_CarBar_Nom_Num_MovieBar_Nom_Num_CarBar_Nom_Num_MovieBar_Ord_Num_Car

Bar_Ord_Num_MovieLine_Nom_Num_CarLine_Nom_Num_MovieLine_Nom_Num_CarLine_Nom_Num_Movie

Line_Ord_Num_CarLine_Ord_Num_MoviePie_Nom_Num_CarPie_Nom_Num_MoviePie_Nom_Num_Car

Pie_Nom_Num_MoviePie_Ord_Num_CarPie_Ord_Num_MovieScatter_Nom_Num_CarScatter_Nom_Num_Movie

Scatter_Nom_Num_CarScatter_Nom_Num_MovieScatter_Ord_Num_CarScatter_Ord_Num_Movie

Table_Nom_Num_CarTable_Nom_Num_MovieTable_Nom_Num_CarTable_Nom_Num_MovieTable_Ord_Num_Car

Table_Ord_Num_Movie

/WSFACTOR=Visualization5 PolynomialDataVisualizationAttributes3 Polynomial Datasets 2

Polynomial

/METHOD=SSTYPE(3)

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Visualization) COMPARE ADJ(BONFERRONI)

/EMMEANS=TABLES(DataVisualizationAttributes) COMPARE ADJ(BONFERRONI)

/EMMEANS=TABLES(Visualization*DataVisualizationAttributes)

/PRINT=DESCRIPTIVE ETASQ OPOWER HOMOGENEITY

/CRITERIA=ALPHA(.05)

/WSDESIGN=VisualizationDataVisualizationAttributesDatasets

Visualization*DataVisualizationAttributesVisualization*Datasets

DataVisualizationAttributes*Datasets Visualization*DataVisualizationAttributes*Datasets.

General Linear Model

Notes

| | | |
|------------------------|-----------------------------------|---|
| Output Created | | 07-SEP-2016 12:56:41 |
| Comments | | |
| Input | Data | C: \Users\Bahador\Desktop\VA nalysis\Filter\Filter_Time. sav |
| | Active Dataset | DataSet1 |
| | Filter | <none> |
| | Weight | <none> |
| | Split File | <none> |
| | N of Rows in Working Data File | 18 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
| | Cases Used | Statistics are based on all cases with valid data for all variables in the model. |

Notes

Syntax

GLM Bar_Nom_Num_Car
 Bar_Nom_Num_Movie
 Bar_Num_Num_Car
 Bar_Num_Num_Movie
 Bar_Ord_Num_Car
 Bar_Ord_Num_Movie
 Line_Nom_Num_Car
 Line_Nom_Num_Movie
 Line_Num_Num_Car
 Line_Num_Num_Movie
 Line_Ord_Num_Car
 Line_Ord_Num_Movie
 Pie_Nom_Num_Car
 Pie_Nom_Num_Movie
 Pie_Num_Num_Car
 Pie_Num_Num_Movie
 Pie_Ord_Num_Car
 Pie_Ord_Num_Movie
 Scatter_Nom_Num_Car
 Scatter_Nom_Num_Movie
 Scatter_Num_Num_Car
 Scatter_Num_Num_Movie
 Scatter_Ord_Num_Car
 Scatter_Ord_Num_Movie
 Table_Nom_Num_Car
 Table_Nom_Num_Movie
 Table_Num_Num_Car
 Table_Num_Num_Movie
 Table_Ord_Num_Car
 Table_Ord_Num_Movie

/WSFACTOR=Visualizatio
 n 5 Polynomial
 DataVisualizationAttribute
 s 3 Polynomial Datasets 2
 Polynomial
 /METHOD=SSTYPE(3)
 /EMMEANS=TABLES
 (OVERALL)
 /EMMEANS=TABLES
 (Visualization) COMPARE
 ADJ(BONFERRONI)
 /EMMEANS=TABLES
 (DataVisualizationAttribute
 s) COMPARE ADJ
 (BONFERRONI)
 /EMMEANS=TABLES
 (Visualization*DataVisualiz
 ationAttributes)
 /PRINT=DESCRIPTIVE
 ETASQ OPOWER
 HOMOGENEITY
 /CRITERIA=ALPHA(.05)

/WSDESIGN=Visualizatio
 n
 DataVisualizationAttribute
 s Datasets

Visualization*DataVisualiz
 ationAttributes
 Visualization*Datasets

Notes

| | | |
|-----------|----------------|-------------|
| Resources | Processor Time | 00:00:00.03 |
| | Elapsed Time | 00:00:00.03 |

[DataSet1] C:\Users\Bahador\Desktop\Analysis\Filter\Filter_Time.sav

Warnings

The HOMOGENEITY specification in the PRINT subcommand will be ignored because there are no between-subjects factors.

Within-Subjects Factors

Measure: MEASURE_1

| Visualization | DataVisualizationAttributes | Datasets | Dependent Variable |
|---------------|-----------------------------|----------|------------------------|
| 1 | 1 | 1 | Bar_Nom_Nu m_Car |
| | | 2 | Bar_Nom_Nu m_Movie |
| | 2 | 1 | Bar_Num_Nu m_Car |
| | | 2 | Bar_Num_Nu m_Movie |
| | 3 | 1 | Bar_Ord_Nu m_Car |
| | | 2 | Bar_Ord_Nu m_Movie |
| 2 | 1 | 1 | Line_Nom_Nu m_Car |
| | | 2 | Line_Nom_Nu m_Movie |
| | 2 | 1 | Line_Num_Nu m_Car |
| | | 2 | Line_Num_Nu m_Movie |
| | 3 | 1 | Line_Ord_Nu m_Car |
| | | 2 | Line_Ord_Nu m_Movie |
| 3 | 1 | 1 | Pie_Nom_Nu m_Car |
| | | 2 | Pie_Nom_Nu m_Movie |

Within-Subjects Factors

Measure: MEASURE_1

| Visualization | DataVisualizationAttributes | Datasets | Dependent Variable |
|---------------|-----------------------------|----------|---------------------------|
| | 2 | 1 | Pie_Num_Nu m_Car |
| | | 2 | Pie_Num_Nu m_Movie |
| | 3 | 1 | Pie_Ord_Num _Car |
| | | 2 | Pie_Ord_Num _Movie |
| 4 | 1 | 1 | Scatter_Nom_ Num_Car |
| | | 2 | Scatter_Nom_ Num_Movie |
| | 2 | 1 | Scatter_Num_ Num_Car |
| | | 2 | Scatter_Num_ Num_Movie |
| | 3 | 1 | Scatter_Ord_ Num_Car |
| | | 2 | Scatter_Ord_ Num_Movie |
| 5 | 1 | 1 | Table_Nom_ Num_Car |
| | | 2 | Table_Nom_ Num_Movie |
| | 2 | 1 | Table_Num_ Num_Car |
| | | 2 | Table_Num_ Num_Movie |
| | 3 | 1 | Table_Ord_N um_Car |
| | | 2 | Table_Ord_N um_Movie |

Descriptive Statistics

| | Mean | Std. Deviation | N |
|-----------------------|---------|----------------|----|
| Bar_Nom_Num_Car | 18.3889 | 12.21445 | 18 |
| Bar_Nom_Num_Movie | 17.8889 | 6.91876 | 18 |
| Bar_Num_Num_Car | 26.7222 | 19.86663 | 18 |
| Bar_Num_Num_Movie | 18.7222 | 14.03695 | 18 |
| Bar_Ord_Num_Car | 15.2778 | 7.86508 | 18 |
| Bar_Ord_Num_Movie | 15.7222 | 6.99416 | 18 |
| Line_Nom_Num_Car | 26.3889 | 18.67411 | 18 |
| Line_Nom_Num_Movie | 30.7778 | 16.86471 | 18 |
| Line_Num_Num_Car | 36.6667 | 31.07865 | 18 |
| Line_Num_Num_Movie | 34.7778 | 30.73139 | 18 |
| Line_Ord_Num_Car | 36.3889 | 29.94336 | 18 |
| Line_Ord_Num_Movie | 27.4444 | 17.12660 | 18 |
| Pie_Nom_Num_Car | 27.5556 | 19.91223 | 18 |
| Pie_Nom_Num_Movie | 29.8889 | 28.18195 | 18 |
| Pie_Num_Num_Car | 28.0000 | 18.94574 | 18 |
| Pie_Num_Num_Movie | 35.3333 | 26.80869 | 18 |
| Pie_Ord_Num_Car | 24.8333 | 14.78175 | 18 |
| Pie_Ord_Num_Movie | 35.6111 | 28.76096 | 18 |
| Scatter_Nom_Num_Car | 27.6111 | 22.99652 | 18 |
| Scatter_Nom_Num_Movie | 25.6111 | 9.03027 | 18 |
| Scatter_Num_Num_Car | 29.3333 | 16.52805 | 18 |
| Scatter_Num_Num_Movie | 38.0000 | 33.68889 | 18 |
| Scatter_Ord_Num_Car | 26.1667 | 18.04325 | 18 |
| Scatter_Ord_Num_Movie | 32.5556 | 17.42285 | 18 |
| Table_Nom_Num_Car | 14.8889 | 9.14516 | 18 |
| Table_Nom_Num_Movie | 15.6667 | 7.82154 | 18 |
| Table_Num_Num_Car | 22.8889 | 14.10002 | 18 |
| Table_Num_Num_Movie | 24.2222 | 13.61900 | 18 |
| Table_Ord_Num_Car | 19.2222 | 12.22608 | 18 |
| Table_Ord_Num_Movie | 24.5000 | 21.11384 | 18 |

Multivariate Tests^a

| Effect | | Value | F | Hypothesis df | Error df |
|--|--------------------|-------|--------------------|---------------|----------|
| Visualization | Pillai's Trace | .693 | 7.900 ^b | 4.000 | 14.000 |
| | Wilks' Lambda | .307 | 7.900 ^b | 4.000 | 14.000 |
| | Hotelling's Trace | 2.257 | 7.900 ^b | 4.000 | 14.000 |
| | Roy's Largest Root | 2.257 | 7.900 ^b | 4.000 | 14.000 |
| DataVisualizationAttributes | Pillai's Trace | .195 | 1.937 ^b | 2.000 | 16.000 |
| | Wilks' Lambda | .805 | 1.937 ^b | 2.000 | 16.000 |
| | Hotelling's Trace | .242 | 1.937 ^b | 2.000 | 16.000 |
| | Roy's Largest Root | .242 | 1.937 ^b | 2.000 | 16.000 |
| Datasets | Pillai's Trace | .064 | 1.161 ^b | 1.000 | 17.000 |
| | Wilks' Lambda | .936 | 1.161 ^b | 1.000 | 17.000 |
| | Hotelling's Trace | .068 | 1.161 ^b | 1.000 | 17.000 |
| | Roy's Largest Root | .068 | 1.161 ^b | 1.000 | 17.000 |
| Visualization * DataVisualizationAttributes | Pillai's Trace | .498 | 1.240 ^b | 8.000 | 10.000 |
| | Wilks' Lambda | .502 | 1.240 ^b | 8.000 | 10.000 |
| | Hotelling's Trace | .992 | 1.240 ^b | 8.000 | 10.000 |
| | Roy's Largest Root | .992 | 1.240 ^b | 8.000 | 10.000 |
| Visualization * Datasets | Pillai's Trace | .235 | 1.076 ^b | 4.000 | 14.000 |
| | Wilks' Lambda | .765 | 1.076 ^b | 4.000 | 14.000 |
| | Hotelling's Trace | .307 | 1.076 ^b | 4.000 | 14.000 |
| | Roy's Largest Root | .307 | 1.076 ^b | 4.000 | 14.000 |
| DataVisualizationAttributes * Datasets | Pillai's Trace | .008 | .068 ^b | 2.000 | 16.000 |
| | Wilks' Lambda | .992 | .068 ^b | 2.000 | 16.000 |
| | Hotelling's Trace | .009 | .068 ^b | 2.000 | 16.000 |
| | Roy's Largest Root | .009 | .068 ^b | 2.000 | 16.000 |
| Visualization * DataVisualizationAttributes * Datasets | Pillai's Trace | .334 | .627 ^b | 8.000 | 10.000 |
| | Wilks' Lambda | .666 | .627 ^b | 8.000 | 10.000 |
| | Hotelling's Trace | .502 | .627 ^b | 8.000 | 10.000 |
| | Roy's Largest Root | .502 | .627 ^b | 8.000 | 10.000 |

Multivariate Tests^a

| Effect | | Sig. | Partial Eta Squared | Noncent. Parameter |
|--|--------------------|------|---------------------|--------------------|
| Visualization | Pillai's Trace | .002 | .693 | 31.602 |
| | Wilks' Lambda | .002 | .693 | 31.602 |
| | Hotelling's Trace | .002 | .693 | 31.602 |
| | Roy's Largest Root | .002 | .693 | 31.602 |
| DataVisualizationAttributes | Pillai's Trace | .176 | .195 | 3.874 |
| | Wilks' Lambda | .176 | .195 | 3.874 |
| | Hotelling's Trace | .176 | .195 | 3.874 |
| | Roy's Largest Root | .176 | .195 | 3.874 |
| Datasets | Pillai's Trace | .296 | .064 | 1.161 |
| | Wilks' Lambda | .296 | .064 | 1.161 |
| | Hotelling's Trace | .296 | .064 | 1.161 |
| | Roy's Largest Root | .296 | .064 | 1.161 |
| Visualization * DataVisualizationAttributes | Pillai's Trace | .368 | .498 | 9.918 |
| | Wilks' Lambda | .368 | .498 | 9.918 |
| | Hotelling's Trace | .368 | .498 | 9.918 |
| | Roy's Largest Root | .368 | .498 | 9.918 |
| Visualization * Datasets | Pillai's Trace | .405 | .235 | 4.305 |
| | Wilks' Lambda | .405 | .235 | 4.305 |
| | Hotelling's Trace | .405 | .235 | 4.305 |
| | Roy's Largest Root | .405 | .235 | 4.305 |
| DataVisualizationAttributes * Datasets | Pillai's Trace | .934 | .008 | .137 |
| | Wilks' Lambda | .934 | .008 | .137 |
| | Hotelling's Trace | .934 | .008 | .137 |
| | Roy's Largest Root | .934 | .008 | .137 |
| Visualization * DataVisualizationAttributes * Datasets | Pillai's Trace | .740 | .334 | 5.015 |
| | Wilks' Lambda | .740 | .334 | 5.015 |
| | Hotelling's Trace | .740 | .334 | 5.015 |
| | Roy's Largest Root | .740 | .334 | 5.015 |

Multivariate Tests^a

| Effect | | Observed Power ^c |
|--|--------------------|-----------------------------|
| Visualization | Pillai's Trace | .979 |
| | Wilks' Lambda | .979 |
| | Hotelling's Trace | .979 |
| | Roy's Largest Root | .979 |
| DataVisualizationAttributes | Pillai's Trace | .342 |
| | Wilks' Lambda | .342 |
| | Hotelling's Trace | .342 |
| | Roy's Largest Root | .342 |
| Datasets | Pillai's Trace | .174 |
| | Wilks' Lambda | .174 |
| | Hotelling's Trace | .174 |
| | Roy's Largest Root | .174 |
| Visualization * DataVisualizationAttributes | Pillai's Trace | .315 |
| | Wilks' Lambda | .315 |
| | Hotelling's Trace | .315 |
| | Roy's Largest Root | .315 |
| Visualization * Datasets | Pillai's Trace | .254 |
| | Wilks' Lambda | .254 |
| | Hotelling's Trace | .254 |
| | Roy's Largest Root | .254 |
| DataVisualizationAttributes * Datasets | Pillai's Trace | .059 |
| | Wilks' Lambda | .059 |
| | Hotelling's Trace | .059 |
| | Roy's Largest Root | .059 |
| Visualization * DataVisualizationAttributes * Datasets | Pillai's Trace | .168 |
| | Wilks' Lambda | .168 |
| | Hotelling's Trace | .168 |
| | Roy's Largest Root | .168 |

a. Design: Intercept

Within Subjects Design: Visualization + DataVisualizationAttributes + Datasets + Visualization * DataVisualizationAttributes + Visualization * Datasets + DataVisualizationAttributes * Datasets + Visualization * DataVisualizationAttributes * Datasets

b. Exact statistic

C.

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

| Within Subjects Effect | Mauchly's W | Approx. Chi-Square | df | Sig. | Epsilon ^b Greenhouse-Geisser |
|--|-------------|--------------------|----|------|--|
| Visualization | .419 | 13.402 | 9 | .147 | .716 |
| DataVisualizationAttributes | .786 | 3.844 | 2 | .146 | .824 |
| Datasets | 1.000 | .000 | 0 | . | 1.000 |
| Visualization * DataVisualizationAttributes | .036 | 46.906 | 35 | .101 | .597 |
| Visualization * Datasets | .484 | 11.197 | 9 | .265 | .736 |
| DataVisualizationAttributes * Datasets | .963 | .608 | 2 | .738 | .964 |
| Visualization * DataVisualizationAttributes * Datasets | .005 | 75.649 | 35 | .000 | .487 |

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

| Within Subjects Effect | Epsilon ^b | |
|--|----------------------|-------------|
| | Huynh-Feldt | Lower-bound |
| Visualization | .877 | .250 |
| DataVisualizationAttributes | .901 | .500 |
| Datasets | 1.000 | 1.000 |
| Visualization * DataVisualizationAttributes | .859 | .125 |
| Visualization * Datasets | .907 | .250 |
| DataVisualizationAttributes * Datasets | 1.000 | .500 |
| Visualization * DataVisualizationAttributes * Datasets | .650 | .125 |

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept

Within Subjects Design: Visualization + DataVisualizationAttributes + Datasets + Visualization * DataVisualizationAttributes + Visualization * Datasets + DataVisualizationAttributes * Datasets + Visualization * DataVisualizationAttributes * Datasets

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are

Tests of Within-Subjects Effects

Measure: MEASURE_1

| Source | | Type III Sum of Squares | df | Mean Square | F |
|---|--------------------|-------------------------|--------|-------------|--------|
| Visualization | Sphericity Assumed | 16701.456 | 4 | 4175.364 | 10.386 |
| | Greenhouse-Geisser | 16701.456 | 2.865 | 5830.430 | 10.386 |
| | Huynh-Feldt | 16701.456 | 3.506 | 4763.425 | 10.386 |
| | Lower-bound | 16701.456 | 1.000 | 16701.456 | 10.386 |
| Error(Visualization) | Sphericity Assumed | 27338.211 | 68 | 402.033 | |
| | Greenhouse-Geisser | 27338.211 | 48.697 | 561.394 | |
| | Huynh-Feldt | 27338.211 | 59.605 | 458.655 | |
| | Lower-bound | 27338.211 | 17.000 | 1608.130 | |
| DataVisualizationAttributes | Sphericity Assumed | 3297.870 | 2 | 1648.935 | 2.492 |
| | Greenhouse-Geisser | 3297.870 | 1.648 | 2001.116 | 2.492 |
| | Huynh-Feldt | 3297.870 | 1.802 | 1830.116 | 2.492 |
| | Lower-bound | 3297.870 | 1.000 | 3297.870 | 2.492 |
| Error (DataVisualizationAttributes) | Sphericity Assumed | 22495.996 | 34 | 661.647 | |
| | Greenhouse-Geisser | 22495.996 | 28.016 | 802.962 | |
| | Huynh-Feldt | 22495.996 | 30.634 | 734.347 | |
| | Lower-bound | 22495.996 | 17.000 | 1323.294 | |
| Datasets | Sphericity Assumed | 417.824 | 1 | 417.824 | 1.161 |
| | Greenhouse-Geisser | 417.824 | 1.000 | 417.824 | 1.161 |
| | Huynh-Feldt | 417.824 | 1.000 | 417.824 | 1.161 |
| | Lower-bound | 417.824 | 1.000 | 417.824 | 1.161 |
| Error(Datasets) | Sphericity Assumed | 6120.209 | 17 | 360.012 | |
| | Greenhouse-Geisser | 6120.209 | 17.000 | 360.012 | |
| | Huynh-Feldt | 6120.209 | 17.000 | 360.012 | |
| | Lower-bound | 6120.209 | 17.000 | 360.012 | |
| Visualization * DataVisualizationAttributes | Sphericity Assumed | 1025.833 | 8 | 128.229 | .489 |
| | Greenhouse-Geisser | 1025.833 | 4.777 | 214.739 | .489 |

Tests of Within-Subjects Effects

Measure: MEASURE_1

| Source | | Sig. | Partial Eta Squared | Noncent. Parameter |
|---|--------------------|------|---------------------|--------------------|
| Visualization | Sphericity Assumed | .000 | .379 | 41.543 |
| | Greenhouse-Geisser | .000 | .379 | 29.750 |
| | Huynh-Feldt | .000 | .379 | 36.414 |
| | Lower-bound | .005 | .379 | 10.386 |
| Error(Visualization) | Sphericity Assumed | | | |
| | Greenhouse-Geisser | | | |
| | Huynh-Feldt | | | |
| | Lower-bound | | | |
| DataVisualizationAttributes | Sphericity Assumed | .098 | .128 | 4.984 |
| | Greenhouse-Geisser | .109 | .128 | 4.107 |
| | Huynh-Feldt | .104 | .128 | 4.491 |
| | Lower-bound | .133 | .128 | 2.492 |
| Error (DataVisualizationAttributes) | Sphericity Assumed | | | |
| | Greenhouse-Geisser | | | |
| | Huynh-Feldt | | | |
| | Lower-bound | | | |
| Datasets | Sphericity Assumed | .296 | .064 | 1.161 |
| | Greenhouse-Geisser | .296 | .064 | 1.161 |
| | Huynh-Feldt | .296 | .064 | 1.161 |
| | Lower-bound | .296 | .064 | 1.161 |
| Error(Datasets) | Sphericity Assumed | | | |
| | Greenhouse-Geisser | | | |
| | Huynh-Feldt | | | |
| | Lower-bound | | | |
| Visualization * DataVisualizationAttributes | Sphericity Assumed | .862 | .028 | 3.914 |
| | Greenhouse-Geisser | .775 | .028 | 2.337 |

Tests of Within-Subjects Effects

Measure: MEASURE_1

| Source | | Observed Power ^a |
|---|--------------------|-----------------------------|
| Visualization | Sphericity Assumed | 1.000 |
| | Greenhouse-Geisser | .997 |
| | Huynh-Feldt | .999 |
| | Lower-bound | .859 |
| Error(Visualization) | Sphericity Assumed | |
| | Greenhouse-Geisser | |
| | Huynh-Feldt | |
| | Lower-bound | |
| DataVisualizationAttributes | Sphericity Assumed | .466 |
| | Greenhouse-Geisser | .418 |
| | Huynh-Feldt | .439 |
| | Lower-bound | .319 |
| Error (DataVisualizationAttributes) | Sphericity Assumed | |
| | Greenhouse-Geisser | |
| | Huynh-Feldt | |
| | Lower-bound | |
| Datasets | Sphericity Assumed | .174 |
| | Greenhouse-Geisser | .174 |
| | Huynh-Feldt | .174 |
| | Lower-bound | .174 |
| Error(Datasets) | Sphericity Assumed | |
| | Greenhouse-Geisser | |
| | Huynh-Feldt | |
| | Lower-bound | |
| Visualization * DataVisualizationAttributes | Sphericity Assumed | .221 |
| | Greenhouse-Geisser | .172 |

Tests of Within-Subjects Effects

Measure: MEASURE_1

| Source | | Type III Sum of Squares | df | Mean Square | F |
|---|--------------------|-------------------------|---------|-------------|-------|
| | Huynh-Feldt | 1025.833 | 6.871 | 149.290 | .489 |
| | Lower-bound | 1025.833 | 1.000 | 1025.833 | .489 |
| Error (Visualization*DataVisualizationAttributes) | Sphericity Assumed | 35642.300 | 136 | 262.076 | |
| | Greenhouse-Geisser | 35642.300 | 81.211 | 438.884 | |
| | Huynh-Feldt | 35642.300 | 116.814 | 305.121 | |
| | Lower-bound | 35642.300 | 17.000 | 2096.606 | |
| | | | | | |
| Visualization * Datasets | Sphericity Assumed | 1830.500 | 4 | 457.625 | 1.575 |
| | Greenhouse-Geisser | 1830.500 | 2.944 | 621.738 | 1.575 |
| | Huynh-Feldt | 1830.500 | 3.628 | 504.543 | 1.575 |
| | Lower-bound | 1830.500 | 1.000 | 1830.500 | 1.575 |
| Error (Visualization*Datasets) | Sphericity Assumed | 19763.300 | 68 | 290.637 | |
| | Greenhouse-Geisser | 19763.300 | 50.051 | 394.864 | |
| | Huynh-Feldt | 19763.300 | 61.677 | 320.435 | |
| | Lower-bound | 19763.300 | 17.000 | 1162.547 | |
| DataVisualizationAttributes * Datasets | Sphericity Assumed | 76.937 | 2 | 38.469 | .066 |
| | Greenhouse-Geisser | 76.937 | 1.928 | 39.903 | .066 |
| | Huynh-Feldt | 76.937 | 2.000 | 38.469 | .066 |
| | Lower-bound | 76.937 | 1.000 | 76.937 | .066 |
| Error (DataVisualizationAttributes *Datasets) | Sphericity Assumed | 19712.930 | 34 | 579.792 | |
| | Greenhouse-Geisser | 19712.930 | 32.778 | 601.411 | |
| | Huynh-Feldt | 19712.930 | 34.000 | 579.792 | |
| | Lower-bound | 19712.930 | 17.000 | 1159.584 | |
| Visualization * DataVisualizationAttributes * Datasets | Sphericity Assumed | 2110.211 | 8 | 263.776 | .918 |
| | Greenhouse-Geisser | 2110.211 | 3.895 | 541.805 | .918 |
| | Huynh-Feldt | 2110.211 | 5.197 | 406.055 | .918 |
| | Lower-bound | 2110.211 | 1.000 | 2110.211 | .918 |
| Error (Visualization*DataVisualizationAttributes *Datasets) | Sphericity Assumed | 39068.589 | 136 | 287.269 | |
| | Greenhouse-Geisser | 39068.589 | 66.211 | 590.059 | |
| | Huynh-Feldt | 39068.589 | 88.347 | 442.219 | |
| | Lower-bound | 39068.589 | 17.000 | 2298.152 | |

Tests of Within-Subjects Effects

Measure: MEASURE_1

| Source | | Sig. | Partial Eta Squared | Noncent. Parameter |
|---|--------------------|------|---------------------|--------------------|
| | Huynh-Feldt | .838 | .028 | 3.362 |
| | Lower-bound | .494 | .028 | .489 |
| Error (Visualization*DataVisualizationAttributes) | Sphericity Assumed | | | |
| | Greenhouse-Geisser | | | |
| | Huynh-Feldt | | | |
| | Lower-bound | | | |
| Visualization * Datasets | Sphericity Assumed | .191 | .085 | 6.298 |
| | Greenhouse-Geisser | .208 | .085 | 4.636 |
| | Huynh-Feldt | .197 | .085 | 5.713 |
| | Lower-bound | .227 | .085 | 1.575 |
| Error (Visualization*Datasets) | Sphericity Assumed | | | |
| | Greenhouse-Geisser | | | |
| | Huynh-Feldt | | | |
| | Lower-bound | | | |
| DataVisualizationAttributes * Datasets | Sphericity Assumed | .936 | .004 | .133 |
| | Greenhouse-Geisser | .931 | .004 | .128 |
| | Huynh-Feldt | .936 | .004 | .133 |
| | Lower-bound | .800 | .004 | .066 |
| Error (DataVisualizationAttributes *Datasets) | Sphericity Assumed | | | |
| | Greenhouse-Geisser | | | |
| | Huynh-Feldt | | | |
| | Lower-bound | | | |
| Visualization * DataVisualizationAttributes * Datasets | Sphericity Assumed | .504 | .051 | 7.346 |
| | Greenhouse-Geisser | .457 | .051 | 3.576 |
| | Huynh-Feldt | .476 | .051 | 4.772 |
| | Lower-bound | .351 | .051 | .918 |
| Error (Visualization*DataVisualizationAttributes *Datasets) | Sphericity Assumed | | | |
| | Greenhouse-Geisser | | | |
| | Huynh-Feldt | | | |
| | Lower-bound | | | |

Tests of Within-Subjects Effects

Measure: MEASURE_1

| Source | | Observed Power ^a |
|---|--------------------|-----------------------------|
| | Huynh-Feldt | .204 |
| | Lower-bound | .101 |
| Error (Visualization*DataVisualizationAttributes) | Sphericity Assumed | |
| | Greenhouse-Geisser | |
| | Huynh-Feldt | |
| | Lower-bound | |
| Visualization * Datasets | Sphericity Assumed | .461 |
| | Greenhouse-Geisser | .386 |
| | Huynh-Feldt | .436 |
| | Lower-bound | .220 |
| Error (Visualization*Datasets) | Sphericity Assumed | |
| | Greenhouse-Geisser | |
| | Huynh-Feldt | |
| | Lower-bound | |
| DataVisualizationAttributes * Datasets | Sphericity Assumed | .059 |
| | Greenhouse-Geisser | .059 |
| | Huynh-Feldt | .059 |
| | Lower-bound | .057 |
| Error (DataVisualizationAttributes *Datasets) | Sphericity Assumed | |
| | Greenhouse-Geisser | |
| | Huynh-Feldt | |
| | Lower-bound | |
| Visualization * DataVisualizationAttributes * Datasets | Sphericity Assumed | .414 |
| | Greenhouse-Geisser | .273 |
| | Huynh-Feldt | .320 |
| | Lower-bound | .148 |
| Error (Visualization*DataVisualizationAttributes *Datasets) | Sphericity Assumed | |
| | Greenhouse-Geisser | |
| | Huynh-Feldt | |
| | Lower-bound | |

a. Computed using alpha = .05

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | Type III Sum of Squares |
|---|---------------|-----------------------------|----------|-------------------------|
| Visualization | Linear | | | 5.208 |
| | Quadratic | | | 15155.667 |
| | Cubic | | | 367.500 |
| | Order 4 | | | 1173.080 |
| Error(Visualization) | Linear | | | 3871.275 |
| | Quadratic | | | 7145.440 |
| | Cubic | | | 5886.100 |
| | Order 4 | | | 10435.396 |
| DataVisualizationAttributes | | Linear | | 478.403 |
| | | Quadratic | | 2819.468 |
| Error (DataVisualizationAttributes) | | Linear | | 6063.147 |
| | | Quadratic | | 16432.849 |
| Datasets | | | Linear | 417.824 |
| Error(Datasets) | | | Linear | 6120.209 |
| Visualization * DataVisualizationAttributes | Linear | Linear | | 574.235 |
| | | Quadratic | | 6.338 |
| | Quadratic | Linear | | 1.834 |
| | | Quadratic | | 66.667 |
| | Cubic | Linear | | 194.272 |
| | | Quadratic | | 4.267 |
| | Order 4 | Linear | | 33.353 |
| | | Quadratic | | 144.868 |
| Error (Visualization*DataVisualizationAttributes) | Linear | Linear | | 2407.990 |
| | | Quadratic | | 4281.004 |
| | Quadratic | Linear | | 4497.826 |
| | | Quadratic | | 8615.315 |
| | Cubic | Linear | | 3271.378 |
| | | Quadratic | | 4830.183 |
| | Order 4 | Linear | | 2544.311 |
| | | Quadratic | | 5194.292 |
| Visualization * Datasets | Linear | | Linear | 761.712 |
| | Quadratic | | Linear | 511.006 |
| | Cubic | | Linear | 166.459 |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | df |
|--|---------------|-----------------------------|----------|----|
| Visualization | Linear | | | 1 |
| | Quadratic | | | 1 |
| | Cubic | | | 1 |
| | Order 4 | | | 1 |
| Error(Visualization) | Linear | | | 17 |
| | Quadratic | | | 17 |
| | Cubic | | | 17 |
| | Order 4 | | | 17 |
| DataVisualizationAttributes | | Linear | | 1 |
| | | Quadratic | | 1 |
| Error (DataVisualizationAttributes) | | Linear | | 17 |
| | | Quadratic | | 17 |
| Datasets | | | Linear | 1 |
| Error(Datasets) | | | Linear | 17 |
| Visualization * DataVisualizationAttributes | Linear | Linear | | 1 |
| | | Quadratic | | 1 |
| | Quadratic | Linear | | 1 |
| | | Quadratic | | 1 |
| | Cubic | Linear | | 1 |
| | | Quadratic | | 1 |
| | Order 4 | Linear | | 1 |
| | | Quadratic | | 1 |
| Error (Visualization*DataVisualiza tionAttributes) | Linear | Linear | | 17 |
| | | Quadratic | | 17 |
| | Quadratic | Linear | | 17 |
| | | Quadratic | | 17 |
| | Cubic | Linear | | 17 |
| | | Quadratic | | 17 |
| | Order 4 | Linear | | 17 |
| | | Quadratic | | 17 |
| Visualization * Datasets | Linear | | Linear | 1 |
| | Quadratic | | Linear | 1 |
| | Cubic | | Linear | 1 |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | Mean Square |
|--|---------------|-----------------------------|----------|-------------|
| Visualization | Linear | | | 5.208 |
| | Quadratic | | | 15155.667 |
| | Cubic | | | 367.500 |
| | Order 4 | | | 1173.080 |
| Error(Visualization) | Linear | | | 227.722 |
| | Quadratic | | | 420.320 |
| | Cubic | | | 346.241 |
| | Order 4 | | | 613.847 |
| DataVisualizationAttributes | | Linear | | 478.403 |
| | | Quadratic | | 2819.468 |
| Error (DataVisualizationAttributes) | | Linear | | 356.656 |
| | | Quadratic | | 966.638 |
| Datasets | | | Linear | 417.824 |
| Error(Datasets) | | | Linear | 360.012 |
| Visualization * DataVisualizationAttributes | Linear | Linear | | 574.235 |
| | | Quadratic | | 6.338 |
| | Quadratic | Linear | | 1.834 |
| | | Quadratic | | 66.667 |
| | Cubic | Linear | | 194.272 |
| | | Quadratic | | 4.267 |
| | Order 4 | Linear | | 33.353 |
| | | Quadratic | | 144.868 |
| Error (Visualization*DataVisualiza tionAttributes) | Linear | Linear | | 141.646 |
| | | Quadratic | | 251.824 |
| | Quadratic | Linear | | 264.578 |
| | | Quadratic | | 506.783 |
| | Cubic | Linear | | 192.434 |
| | | Quadratic | | 284.128 |
| | Order 4 | Linear | | 149.665 |
| | | Quadratic | | 305.547 |
| Visualization * Datasets | Linear | | Linear | 761.712 |
| | Quadratic | | Linear | 511.006 |
| | Cubic | | Linear | 166.459 |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | F | Sig. |
|--|---------------|-----------------------------|----------|--------|------|
| Visualization | Linear | | | .023 | .882 |
| | Quadratic | | | 36.057 | .000 |
| | Cubic | | | 1.061 | .317 |
| | Order 4 | | | 1.911 | .185 |
| Error(Visualization) | Linear | | | | |
| | Quadratic | | | | |
| | Cubic | | | | |
| | Order 4 | | | | |
| DataVisualizationAttributes | | Linear | | 1.341 | .263 |
| | | Quadratic | | 2.917 | .106 |
| Error (DataVisualizationAttributes) | | Linear | | | |
| | | Quadratic | | | |
| Datasets | | | Linear | 1.161 | .296 |
| Error(Datasets) | | | Linear | | |
| Visualization * DataVisualizationAttributes | Linear | Linear | | 4.054 | .060 |
| | | Quadratic | | .025 | .876 |
| | Quadratic | Linear | | .007 | .935 |
| | | Quadratic | | .132 | .721 |
| | Cubic | Linear | | 1.010 | .329 |
| | | Quadratic | | .015 | .904 |
| | Order 4 | Linear | | .223 | .643 |
| | | Quadratic | | .474 | .500 |
| Error (Visualization*DataVisualiza tionAttributes) | Linear | Linear | | | |
| | | Quadratic | | | |
| | Quadratic | Linear | | | |
| | | Quadratic | | | |
| | Cubic | Linear | | | |
| | | Quadratic | | | |
| | Order 4 | Linear | | | |
| | | Quadratic | | | |
| Visualization * Datasets | Linear | | Linear | 3.154 | .094 |
| | Quadratic | | Linear | 2.488 | .133 |
| | Cubic | | Linear | .676 | .422 |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | Partial Eta Squared |
|---|---------------|-----------------------------|----------|---------------------|
| Visualization | Linear | | | .001 |
| | Quadratic | | | .680 |
| | Cubic | | | .059 |
| | Order 4 | | | .101 |
| Error(Visualization) | Linear | | | |
| | Quadratic | | | |
| | Cubic | | | |
| | Order 4 | | | |
| DataVisualizationAttributes | | Linear | | .073 |
| | | Quadratic | | .146 |
| Error (DataVisualizationAttributes) | | Linear | | |
| | | Quadratic | | |
| Datasets | | | Linear | .064 |
| Error(Datasets) | | | Linear | |
| Visualization * DataVisualizationAttributes | Linear | Linear | | .193 |
| | | Quadratic | | .001 |
| | Quadratic | Linear | | .000 |
| | | Quadratic | | .008 |
| | Cubic | Linear | | .056 |
| | | Quadratic | | .001 |
| | Order 4 | Linear | | .013 |
| | | Quadratic | | .027 |
| Error (Visualization*DataVisualizationAttributes) | Linear | Linear | | |
| | | Quadratic | | |
| | Quadratic | Linear | | |
| | | Quadratic | | |
| | Cubic | Linear | | |
| | | Quadratic | | |
| | Order 4 | Linear | | |
| | | Quadratic | | |
| Visualization * Datasets | Linear | | Linear | .156 |
| | Quadratic | | Linear | .128 |
| | Cubic | | Linear | .038 |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | Noncent. Parameter |
|--|---------------|-----------------------------|----------|-----------------------|
| Visualization | Linear | | | .023 |
| | Quadratic | | | 36.057 |
| | Cubic | | | 1.061 |
| | Order 4 | | | 1.911 |
| Error(Visualization) | Linear | | | |
| | Quadratic | | | |
| | Cubic | | | |
| | Order 4 | | | |
| DataVisualizationAttributes | | Linear | | 1.341 |
| | | Quadratic | | 2.917 |
| Error (DataVisualizationAttributes) | | Linear | | |
| | | Quadratic | | |
| Datasets | | | Linear | 1.161 |
| Error(Datasets) | | | Linear | |
| Visualization * DataVisualizationAttributes | Linear | Linear | | 4.054 |
| | | Quadratic | | .025 |
| | Quadratic | Linear | | .007 |
| | | Quadratic | | .132 |
| | Cubic | Linear | | 1.010 |
| | | Quadratic | | .015 |
| | Order 4 | Linear | | .223 |
| | | Quadratic | | .474 |
| Error (Visualization*DataVisualiza tionAttributes) | Linear | Linear | | |
| | | Quadratic | | |
| | Quadratic | Linear | | |
| | | Quadratic | | |
| | Cubic | Linear | | |
| | | Quadratic | | |
| | Order 4 | Linear | | |
| | | Quadratic | | |
| Visualization * Datasets | Linear | | Linear | 3.154 |
| | Quadratic | | Linear | 2.488 |
| | Cubic | | Linear | .676 |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | Observed Power ^a |
|---|---------------|-----------------------------|----------|-----------------------------|
| Visualization | Linear | | | .052 |
| | Quadratic | | | 1.000 |
| | Cubic | | | .163 |
| | Order 4 | | | .257 |
| Error(Visualization) | Linear | | | |
| | Quadratic | | | |
| | Cubic | | | |
| | Order 4 | | | |
| DataVisualizationAttributes | | Linear | | .194 |
| | | Quadratic | | .364 |
| Error (DataVisualizationAttributes) | | Linear | | |
| | | Quadratic | | |
| Datasets | | | Linear | .174 |
| Error(Datasets) | | | Linear | |
| Visualization * DataVisualizationAttributes | Linear | Linear | | .476 |
| | | Quadratic | | .053 |
| | Quadratic | Linear | | .051 |
| | | Quadratic | | .064 |
| | Cubic | Linear | | .158 |
| | | Quadratic | | .052 |
| | Order 4 | Linear | | .073 |
| | | Quadratic | | .100 |
| Error (Visualization*DataVisualizationAttributes) | Linear | Linear | | |
| | | Quadratic | | |
| | Quadratic | Linear | | |
| | | Quadratic | | |
| | Cubic | Linear | | |
| | | Quadratic | | |
| | Order 4 | Linear | | |
| | | Quadratic | | |
| Visualization * Datasets | Linear | | Linear | .388 |
| | Quadratic | | Linear | .319 |
| | Cubic | | Linear | .121 |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | Type III Sum of Squares |
|---|---------------|-----------------------------|----------|-------------------------|
| | Order 4 | | Linear | 391.323 |
| Error (Visualization*Datasets) | Linear | | Linear | 4106.105 |
| | Quadratic | | Linear | 3491.911 |
| | Cubic | | Linear | 4188.807 |
| | Order 4 | | Linear | 7976.477 |
| DataVisualizationAttributes * Datasets | | Linear | Linear | 72.003 |
| | | Quadratic | Linear | 4.934 |
| Error (DataVisualizationAttributes *Datasets) | | Linear | Linear | 8505.347 |
| | | Quadratic | Linear | 11207.582 |
| Visualization * DataVisualizationAttributes * Datasets | Linear | Linear | Linear | 374.113 |
| | | Quadratic | Linear | 208.445 |
| | Quadratic | Linear | Linear | .358 |
| | | Quadratic | Linear | 330.027 |
| | Cubic | Linear | Linear | 716.006 |
| | | Quadratic | Linear | 20.807 |
| | Order 4 | Linear | Linear | 370.229 |
| | | Quadratic | Linear | 90.226 |
| Error (Visualization*DataVisualiza tionAttributes*Datasets) | Linear | Linear | Linear | 3202.513 |
| | | Quadratic | Linear | 2802.563 |
| | Quadratic | Linear | Linear | 4670.017 |
| | | Quadratic | Linear | 4852.146 |
| | Cubic | Linear | Linear | 3421.244 |
| | | Quadratic | Linear | 3886.976 |
| | Order 4 | Linear | Linear | 5395.921 |
| | | Quadratic | Linear | 10837.209 |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | df |
|---|---------------|-----------------------------|----------|----|
| | Order 4 | | Linear | 1 |
| Error (Visualization*Datasets) | Linear | | Linear | 17 |
| | Quadratic | | Linear | 17 |
| | Cubic | | Linear | 17 |
| | Order 4 | | Linear | 17 |
| DataVisualizationAttributes * Datasets | | Linear | Linear | 1 |
| | | Quadratic | Linear | 1 |
| Error (DataVisualizationAttributes *Datasets) | | Linear | Linear | 17 |
| | | Quadratic | Linear | 17 |
| Visualization * DataVisualizationAttributes * Datasets | Linear | Linear | Linear | 1 |
| | | Quadratic | Linear | 1 |
| | Quadratic | Linear | Linear | 1 |
| | | Quadratic | Linear | 1 |
| | Cubic | Linear | Linear | 1 |
| | | Quadratic | Linear | 1 |
| | Order 4 | Linear | Linear | 1 |
| | | Quadratic | Linear | 1 |
| Error (Visualization*DataVisualiza tionAttributes*Datasets) | Linear | Linear | Linear | 17 |
| | | Quadratic | Linear | 17 |
| | Quadratic | Linear | Linear | 17 |
| | | Quadratic | Linear | 17 |
| | Cubic | Linear | Linear | 17 |
| | | Quadratic | Linear | 17 |
| | Order 4 | Linear | Linear | 17 |
| | | Quadratic | Linear | 17 |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | Mean Square |
|---|---------------|-----------------------------|----------|-------------|
| | Order 4 | | Linear | 391.323 |
| Error (Visualization*Datasets) | Linear | | Linear | 241.536 |
| | Quadratic | | Linear | 205.407 |
| | Cubic | | Linear | 246.400 |
| | Order 4 | | Linear | 469.205 |
| DataVisualizationAttributes * Datasets | | Linear | Linear | 72.003 |
| | | Quadratic | Linear | 4.934 |
| Error (DataVisualizationAttributes *Datasets) | | Linear | Linear | 500.315 |
| | | Quadratic | Linear | 659.270 |
| Visualization * DataVisualizationAttributes * Datasets | Linear | Linear | Linear | 374.113 |
| | | Quadratic | Linear | 208.445 |
| | Quadratic | Linear | Linear | .358 |
| | | Quadratic | Linear | 330.027 |
| | Cubic | Linear | Linear | 716.006 |
| | | Quadratic | Linear | 20.807 |
| | Order 4 | Linear | Linear | 370.229 |
| | | Quadratic | Linear | 90.226 |
| Error (Visualization*DataVisualiza tionAttributes*Datasets) | Linear | Linear | Linear | 188.383 |
| | | Quadratic | Linear | 164.857 |
| | Quadratic | Linear | Linear | 274.707 |
| | | Quadratic | Linear | 285.420 |
| | Cubic | Linear | Linear | 201.250 |
| | | Quadratic | Linear | 228.646 |
| | Order 4 | Linear | Linear | 317.407 |
| | | Quadratic | Linear | 637.483 |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | F | Sig. |
|---|---------------|-----------------------------|----------|-------|------|
| | Order 4 | | Linear | .834 | .374 |
| Error (Visualization*Datasets) | Linear | | Linear | | |
| | Quadratic | | Linear | | |
| | Cubic | | Linear | | |
| | Order 4 | | Linear | | |
| DataVisualizationAttributes * Datasets | | Linear | Linear | .144 | .709 |
| | | Quadratic | Linear | .007 | .932 |
| Error (DataVisualizationAttributes *Datasets) | | Linear | Linear | | |
| | | Quadratic | Linear | | |
| Visualization * DataVisualizationAttributes * Datasets | Linear | Linear | Linear | 1.986 | .177 |
| | | Quadratic | Linear | 1.264 | .276 |
| | Quadratic | Linear | Linear | .001 | .972 |
| | | Quadratic | Linear | 1.156 | .297 |
| | Cubic | Linear | Linear | 3.558 | .076 |
| | | Quadratic | Linear | .091 | .767 |
| | Order 4 | Linear | Linear | 1.166 | .295 |
| | | Quadratic | Linear | .142 | .711 |
| Error (Visualization*DataVisualiza tionAttributes*Datasets) | Linear | Linear | Linear | | |
| | | Quadratic | Linear | | |
| | Quadratic | Linear | Linear | | |
| | | Quadratic | Linear | | |
| | Cubic | Linear | Linear | | |
| | | Quadratic | Linear | | |
| | Order 4 | Linear | Linear | | |
| | | Quadratic | Linear | | |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | Partial Eta Squared |
|---|---------------|-----------------------------|----------|---------------------|
| | Order 4 | | Linear | .047 |
| Error (Visualization*Datasets) | Linear | | Linear | |
| | Quadratic | | Linear | |
| | Cubic | | Linear | |
| | Order 4 | | Linear | |
| DataVisualizationAttributes * Datasets | | Linear | Linear | .008 |
| | | Quadratic | Linear | .000 |
| Error (DataVisualizationAttributes *Datasets) | | Linear | Linear | |
| | | Quadratic | Linear | |
| Visualization * DataVisualizationAttributes * Datasets | Linear | Linear | Linear | .105 |
| | | Quadratic | Linear | .069 |
| | Quadratic | Linear | Linear | .000 |
| | | Quadratic | Linear | .064 |
| | Cubic | Linear | Linear | .173 |
| | | Quadratic | Linear | .005 |
| | Order 4 | Linear | Linear | .064 |
| | | Quadratic | Linear | .008 |
| Error (Visualization*DataVisualiza tionAttributes*Datasets) | Linear | Linear | Linear | |
| | | Quadratic | Linear | |
| | Quadratic | Linear | Linear | |
| | | Quadratic | Linear | |
| | Cubic | Linear | Linear | |
| | | Quadratic | Linear | |
| | Order 4 | Linear | Linear | |
| | | Quadratic | Linear | |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | Noncent. Parameter |
|---|---------------|-----------------------------|----------|-----------------------|
| | Order 4 | | Linear | .834 |
| Error (Visualization*Datasets) | Linear | | Linear | |
| | Quadratic | | Linear | |
| | Cubic | | Linear | |
| | Order 4 | | Linear | |
| DataVisualizationAttributes * Datasets | | Linear | Linear | .144 |
| | | Quadratic | Linear | .007 |
| Error (DataVisualizationAttributes *Datasets) | | Linear | Linear | |
| | | Quadratic | Linear | |
| Visualization * DataVisualizationAttributes * Datasets | Linear | Linear | Linear | 1.986 |
| | | Quadratic | Linear | 1.264 |
| | Quadratic | Linear | Linear | .001 |
| | | Quadratic | Linear | 1.156 |
| | Cubic | Linear | Linear | 3.558 |
| | | Quadratic | Linear | .091 |
| | Order 4 | Linear | Linear | 1.166 |
| | | Quadratic | Linear | .142 |
| Error (Visualization*DataVisualiza tionAttributes*Datasets) | Linear | Linear | Linear | |
| | | Quadratic | Linear | |
| | Quadratic | Linear | Linear | |
| | | Quadratic | Linear | |
| | Cubic | Linear | Linear | |
| | | Quadratic | Linear | |
| | Order 4 | Linear | Linear | |
| | | Quadratic | Linear | |

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

| Source | Visualization | DataVisualizationAttributes | Datasets | Observed Power ^a |
|---|---------------|-----------------------------|----------|-----------------------------|
| | Order 4 | | Linear | .139 |
| Error (Visualization*Datasets) | Linear | | Linear | |
| | Quadratic | | Linear | |
| | Cubic | | Linear | |
| | Order 4 | | Linear | |
| DataVisualizationAttributes * Datasets | | Linear | Linear | .065 |
| | | Quadratic | Linear | .051 |
| Error (DataVisualizationAttributes *Datasets) | | Linear | Linear | |
| | | Quadratic | Linear | |
| Visualization * DataVisualizationAttributes * Datasets | Linear | Linear | Linear | .265 |
| | | Quadratic | Linear | .186 |
| | Quadratic | Linear | Linear | .050 |
| | | Quadratic | Linear | .174 |
| | Cubic | Linear | Linear | .429 |
| | | Quadratic | Linear | .059 |
| | Order 4 | Linear | Linear | .175 |
| | | Quadratic | Linear | .065 |
| Error (Visualization*DataVisualiza tionAttributes*Datasets) | Linear | Linear | Linear | |
| | | Quadratic | Linear | |
| | Quadratic | Linear | Linear | |
| | | Quadratic | Linear | |
| | Cubic | Linear | Linear | |
| | | Quadratic | Linear | |
| | Order 4 | Linear | Linear | |
| | | Quadratic | Linear | |

a. Computed using alpha = .05

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

| Source | Type III Sum of Squares | df | Mean Square | F | Sig. | Partial Eta Squared |
|-----------|-------------------------|----|-------------|---------|------|---------------------|
| Intercept | 371673.869 | 1 | 371673.869 | 217.271 | .000 | .927 |
| Error | 29080.965 | 17 | 1710.645 | | | |

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

| Source | Noncent. Parameter | Observed Power ^a |
|-----------|--------------------|-----------------------------|
| Intercept | 217.271 | 1.000 |
| Error | | |

a. Computed using alpha = .05

Estimated Marginal Means

1. Grand Mean

Measure: MEASURE_1

| Mean | Std. Error | 95% Confidence Interval | |
|--------|------------|-------------------------|-------------|
| | | Lower Bound | Upper Bound |
| 26.235 | 1.780 | 22.480 | 29.990 |

2. Visualization

Estimates

Measure: MEASURE_1

| Visualization | Mean | Std. Error | 95% Confidence Interval | |
|---------------|--------|------------|-------------------------|-------------|
| | | | Lower Bound | Upper Bound |
| 1 | 18.787 | 1.608 | 15.395 | 22.179 |
| 2 | 32.074 | 3.608 | 24.463 | 39.686 |
| 3 | 30.204 | 2.782 | 24.334 | 36.074 |
| 4 | 29.880 | 2.254 | 25.123 | 34.636 |
| 5 | 20.231 | 1.519 | 17.027 | 23.436 |

Pairwise Comparisons

Measure: MEASURE_1

| (I) Visualization | (J) Visualization | Mean Difference (I-J) | Std. Error | Sig. ^b | 95% Confidence b... |
|-------------------|-------------------|--------------------------|------------|-------------------|------------------------|
| | | | | | Lower Bound |
| 1 | 2 | -13.287 [*] | 3.295 | .009 | -23.906 |
| | 3 | -11.417 [*] | 2.692 | .006 | -20.092 |
| | 4 | -11.093 [*] | 2.104 | .001 | -17.872 |
| | 5 | -1.444 | 2.214 | 1.000 | -8.578 |
| 2 | 1 | 13.287 [*] | 3.295 | .009 | 2.668 |
| | 3 | 1.870 | 3.765 | 1.000 | -10.262 |
| | 4 | 2.194 | 2.393 | 1.000 | -5.518 |
| | 5 | 11.843 [*] | 3.030 | .011 | 2.078 |
| 3 | 1 | 11.417 [*] | 2.692 | .006 | 2.741 |
| | 2 | -1.870 | 3.765 | 1.000 | -14.003 |
| | 4 | .324 | 2.300 | 1.000 | -7.087 |
| | 5 | 9.972 [*] | 2.787 | .023 | .991 |
| 4 | 1 | 11.093 [*] | 2.104 | .001 | 4.313 |
| | 2 | -2.194 | 2.393 | 1.000 | -9.907 |
| | 3 | -.324 | 2.300 | 1.000 | -7.735 |
| | 5 | 9.648 [*] | 2.208 | .004 | 2.535 |
| 5 | 1 | 1.444 | 2.214 | 1.000 | -5.689 |
| | 2 | -11.843 [*] | 3.030 | .011 | -21.608 |
| | 3 | -9.972 [*] | 2.787 | .023 | -18.954 |
| | 4 | -9.648 [*] | 2.208 | .004 | -16.762 |

Pairwise Comparisons

Measure: MEASURE_1

| | | 95% Confidence Interval for ^b ... |
|-------------------|-------------------|---|
| (I) Visualization | (J) Visualization | Upper Bound |
| 1 | 2 | -2.668 |
| | 3 | -2.741 |
| | 4 | -4.313 |
| | 5 | 5.689 |
| 2 | 1 | 23.906 |
| | 3 | 14.003 |
| | 4 | 9.907 |
| | 5 | 21.608 |
| 3 | 1 | 20.092 |
| | 2 | 10.262 |
| | 4 | 7.735 |
| | 5 | 18.954 |
| 4 | 1 | 17.872 |
| | 2 | 5.518 |
| | 3 | 7.087 |
| | 5 | 16.762 |
| 5 | 1 | 8.578 |
| | 2 | -2.078 |
| | 3 | -.991 |
| | 4 | -2.535 |

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests

| | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |
|--------------------|-------|--------------------|---------------|----------|------|---------------------|
| Pillai's trace | .693 | 7.900 ^a | 4.000 | 14.000 | .002 | .693 |
| Wilks' lambda | .307 | 7.900 ^a | 4.000 | 14.000 | .002 | .693 |
| Hotelling's trace | 2.257 | 7.900 ^a | 4.000 | 14.000 | .002 | .693 |
| Roy's largest root | 2.257 | 7.900 ^a | 4.000 | 14.000 | .002 | .693 |

Multivariate Tests

| | Noncent. Parameter | Observed Power ^b |
|--------------------|--------------------|-----------------------------|
| Pillai's trace | 31.602 | .979 |
| Wilks' lambda | 31.602 | .979 |
| Hotelling's trace | 31.602 | .979 |
| Roy's largest root | 31.602 | .979 |

Each F tests the multivariate effect of Visualization. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

b. Computed using alpha = .05

3. DataVisualizationAttributes

Estimates

Measure: MEASURE_1

| DataVisualizationAttributes | Mean | Std. Error | 95% Confidence Interval | |
|-----------------------------|--------|------------|-------------------------|-------------|
| | | | Lower Bound | Upper Bound |
| 1 | 23.467 | 1.690 | 19.902 | 27.031 |
| 2 | 29.467 | 3.159 | 22.803 | 36.131 |
| 3 | 25.772 | 2.006 | 21.540 | 30.005 |

Pairwise Comparisons

Measure: MEASURE_1

| (I) DataVisualizationAttributes | (J) DataVisualizationAttributes | Mean Difference (I-J) | Std. Error | Sig. ^a |
|------------------------------------|------------------------------------|--------------------------|------------|-------------------|
| 1 | 2 | -6.000 | 3.043 | .195 |
| | 3 | -2.306 | 1.991 | .788 |
| 2 | 1 | 6.000 | 3.043 | .195 |
| | 3 | 3.694 | 2.972 | .692 |
| 3 | 1 | 2.306 | 1.991 | .788 |
| | 2 | -3.694 | 2.972 | .692 |

Pairwise Comparisons

Measure: MEASURE_1

| (I) DataVisualizationAttributes | (J) DataVisualizationAttributes | 95% Confidence Interval for Difference ^a | |
|------------------------------------|------------------------------------|--|-------------|
| | | Lower Bound | Upper Bound |
| 1 | 2 | -14.078 | 2.078 |
| | 3 | -7.591 | 2.980 |
| 2 | 1 | -2.078 | 14.078 |
| | 3 | -4.197 | 11.586 |
| 3 | 1 | -2.980 | 7.591 |
| | 2 | -11.586 | 4.197 |

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests

| | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |
|--------------------|-------|--------------------|---------------|----------|------|---------------------|
| Pillai's trace | .195 | 1.937 ^a | 2.000 | 16.000 | .176 | .195 |
| Wilks' lambda | .805 | 1.937 ^a | 2.000 | 16.000 | .176 | .195 |
| Hotelling's trace | .242 | 1.937 ^a | 2.000 | 16.000 | .176 | .195 |
| Roy's largest root | .242 | 1.937 ^a | 2.000 | 16.000 | .176 | .195 |

Multivariate Tests

| | Noncent. Parameter | Observed Power ^b |
|--------------------|-----------------------|--------------------------------|
| Pillai's trace | 3.874 | .342 |
| Wilks' lambda | 3.874 | .342 |
| Hotelling's trace | 3.874 | .342 |
| Roy's largest root | 3.874 | .342 |

Each F tests the multivariate effect of DataVisualizationAttributes. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

b. Computed using alpha = .05

4. Visualization * DataVisualizationAttributes

Measure: MEASURE_1

| Visualization | DataVisualizationAttributes | Mean | Std. Error | 95% Confidence Interval | |
|---------------|-----------------------------|--------|------------|-------------------------|-------------|
| | | | | Lower Bound | Upper Bound |
| 1 | 1 | 18.139 | 2.035 | 13.845 | 22.433 |
| | 2 | 22.722 | 2.902 | 16.599 | 28.846 |
| | 3 | 15.500 | 1.264 | 12.833 | 18.167 |
| 2 | 1 | 28.583 | 3.031 | 22.189 | 34.978 |
| | 2 | 35.722 | 6.234 | 22.569 | 48.875 |
| | 3 | 31.917 | 3.793 | 23.914 | 39.919 |
| 3 | 1 | 28.722 | 3.897 | 20.501 | 36.943 |
| | 2 | 31.667 | 3.870 | 23.502 | 39.832 |
| | 3 | 30.222 | 4.057 | 21.662 | 38.783 |
| 4 | 1 | 26.611 | 3.141 | 19.985 | 33.237 |
| | 2 | 33.667 | 5.412 | 22.247 | 45.086 |
| | 3 | 29.361 | 3.177 | 22.658 | 36.064 |
| 5 | 1 | 15.278 | 1.234 | 12.674 | 17.882 |
| | 2 | 23.556 | 2.304 | 18.694 | 28.417 |
| | 3 | 21.861 | 2.806 | 15.941 | 27.781 |