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In [1]: import pandas as pd
import numpy as np
import scipy.stats as stats

df=pd.read_csv('./Metadata.csv')
df
```

Out[1]:

	Mean	SD	Chart-Category	Chart-type	Domain	Source	Topic	Sentiment	Purpose
0	-1.65	2.272163	Grid	Heatmap	Infographics	Information is Beautiful	Health	2	2
1	5.74	2.086820	Point	Scatter	Blog	Multiple Views	Demographics	3	3
2	3.08	2.018346	Map + Area	Choropleth + Stacked	Government	Washington Census	Demographics	3	3
3	6.21	2.668193	Bar	Bar	Blog	Flowing Data	Demographics	3	3
4	3.06	2.045362	Area	Proportional	News	Wall Street Journal	Sports	3	3
...
495	-6.35	2.378954	Map	Plotted	Blog	Nightingale	History	2	2
496	-3.98	2.533647	Area + Diagram	Area + Isotype	Blog	Nightingale	Resources	2	2
497	-5.92	2.056095	Diagram	Isotype	Infographics	Information is Beautiful	Environment	2	2
498	-2.23	2.229485	Bar	Bar	Infographics	Information is Beautiful	Environment	3	2
499	-4.21	2.357637	Map	Plotted	News	New York Times	Weather	3	2

500 rows × 41 columns

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In [2]: # Regression Results for Ratings Scores in Expt 1

import scipy.stats as stats

import csv
from matplotlib import pyplot as plt
import numpy as np
import statistics
import pandas as pd

import sklearn
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression

import statsmodels.api as sm
from statsmodels.sandbox.regression.predstd import wls_prediction_std

from sklearn.decomposition import FactorAnalysis, PCA
from sklearn.preprocessing import StandardScaler

from sklearn.model_selection import KFold
from sklearn.linear_model import BayesianRidge
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from numpy import mean
from numpy import var
from math import sqrt

def cohend(d1, d2):
    n1, n2 = len(d1), len(d2)
    s1, s2 = var(d1, ddof=1), var(d2, ddof=1)
    s = sqrt(((n1 - 1) * s1 + (n2 - 1) * s2) / (n1 + n2 - 2))
    u1, u2 = mean(d1), mean(d2)
    return (u1 - u2) / s

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In [3]: # Chart-type

# Isotype, Chernoff, Illustrations
y_val=[]
for i in range(len(df)):
    if('Isotype' in df.iloc[i]['Chart-type'] or 'Chernoff' in df.iloc[i]['Chart-type'] or 'Illustrations' in df.iloc[i]['Chart-type']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Isotype, Chernoff, Illustration : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Area
y_val=[]
for i in range(len(df)):
    if('Area' in df.iloc[i]['Chart-Category']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Area : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Map
y_val=[]
for i in range(len(df)):
    if('Map' in df.iloc[i]['Chart-Category']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Map : ')

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print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Map with low annotation
y_val=[]
for i in range(len(df)):
    if('Map' in df.iloc[i]['Chart-Category'] and df.iloc[i]['Text-Vol']==1):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Map, Low Annotation : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Radial Charts (chord diagrams, donut charts, timelines, radial bar charts, etc.)
y_val=[]
for i in range(len(df)):
    if('Circle' in df.iloc[i]['Chart-Category'] or 'Radial' in df.iloc[i]['Chart-type'])
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Radial Charts : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Bar
y_val=[]
for i in range(len(df)):
    if('Bar' in df.iloc[i]['Chart-Category']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Bar : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Point
y_val=[]
for i in range(len(df)):
    if('Point' in df.iloc[i]['Chart-Category']):

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        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Point : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Line
y_val=[]
for i in range(len(df)):
    if('Line' in df.iloc[i]['Chart-Category']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Line : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Distribution
y_val=[]
for i in range(len(df)):
    if('Distribution' in df.iloc[i]['Chart-Category']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Distribution : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Grid
y_val=[]
for i in range(len(df)):
    if('Grid' in df.iloc[i]['Chart-Category']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()

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print('Grid : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Network
y_val=[]
for i in range(len(df)):
    if('Network' in df.iloc[i]['Chart-Category']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Network : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Table
y_val=[]
for i in range(len(df)):
    if('Table' in df.iloc[i]['Chart-Category']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Table : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Tree
y_val=[]
for i in range(len(df)):
    if('Tree' in df.iloc[i]['Chart-Category']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Tree : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

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Isotype, Chernoff, Illustration :

p-value : 0.00

R2 : 0.78

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Cohen's d : 0.86
*****
*****
Area
p-value : 0.00
R2 : 0.75
Cohen's d : 0.72
*****
*****
Map :
p-value : 0.00
R2 : 0.71
Cohen's d : 0.76
*****
*****
Map, Low Annotation :
p-value : 0.00
R2 : 0.83
Cohen's d : 0.74
*****
*****
Radial Charts :
p-value : 0.00
R2 : 0.79
Cohen's d : 0.80
*****
*****
Bar :
p-value : 0.00
R2 : 0.62
Cohen's d : 0.68
*****
*****
Point :
p-value : 0.00
R2 : 0.67
Cohen's d : 0.64
*****
*****
Line :
p-value : 0.00
R2 : 0.62
Cohen's d : 0.55
*****
*****
Distribution :
p-value : 0.00
R2 : 0.69
Cohen's d : 0.51
*****
*****
Grid :
p-value : 0.00
R2 : 0.66
Cohen's d : 0.67
*****
*****
Network :
p-value : 0.00
R2 : 0.71
Cohen's d : 0.69
*****
*****
Table :
p-value : 0.00
R2 : 0.53
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Cohen's d : 0.41
*****
*****
Tree :
p-value : 0.00
R2 : 0.51
Cohen's d : 0.38
*****
*****

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In [4]: # Photorealistic

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Photorealistic']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Photorealistic : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Human Recognizable Objects

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['HRO']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Human Recognizable Objects : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Human Depiction

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['HD']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Human Depiction : ')

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print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Skeuomorphism

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Skeuomorphic']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Skeuomorphism : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Title

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Title']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Title : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Axis

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Axes']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Axis : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Key

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y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Key']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Key : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Title and Key

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Title'] and 'y' in df.iloc[i]['Key']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Title and Key : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Text Volume

X=df['Mean']
Y=df['Text-Vol']
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Text Volume : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Data Labels

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Labels']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Data Labels : ')

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print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Data Ink Ratio

X=df['Mean']
Y=df['DIR']
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Data Ink Ratio : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Visual Density

X=df['Mean']
Y=df['Density']
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Visual Density : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Data Scale

X=df['Mean']
Y=df['Data-Vol']
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Data Scale : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Message Redundancy

y_val=[]
for i in range(len(df)):
    if 'y' in df.iloc[i]['Msg-Red']:
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Message Redundancy : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)

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print("*****")

# Data Redundancy

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Data-Red']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Data Redundancy : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Highlights

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Highlights']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Highlights : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Arrows

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Arrows']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Arrows : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Color

y_val=[]
for i in range(len(df)):

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        if('low' in df.iloc[i]['Color']):
            y_val.append(1)
        elif('medium' in df.iloc[i]['Color']):
            y_val.append(2)
        else:
            y_val.append(3)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Color : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Background Color
X=df['Mean']
Y=df['BGC']
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Background Color : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# 3D
y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['3D']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('3D : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Gridlines
y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Gridlines']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Gridlines : ')

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print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Caption

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Caption']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Gridlines : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Data Source

y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Source.1']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Data Source : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Dimensionality

y_val=[]
for i in range(len(df)):
    if('low' in df.iloc[i]['Dim']):
        y_val.append(1)
    elif('medium' in df.iloc[i]['Dim']):
        y_val.append(2)
    else:
        y_val.append(3)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Dimensionality : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

```

```

# Pictorial Units
y_val=[]
for i in range(len(df)):
    if('y' in df.iloc[i]['Pictorial-Units']):
        y_val.append(1)
    else:
        y_val.append(0)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Pictorial Units : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)
print("*****")

# Domain
y_val=[]
for i in range(len(df)):
    if('Infographics' in df.iloc[i]['Domain']):
        y_val.append(1)
    elif('Blog' in df.iloc[i]['Domain']):
        y_val.append(2)
    elif('Government' in df.iloc[i]['Domain']):
        y_val.append(3)
    elif('News' in df.iloc[i]['Domain']):
        y_val.append(4)
    elif('Media' in df.iloc[i]['Domain']):
        y_val.append(5)
    elif('Scientific' in df.iloc[i]['Domain']):
        y_val.append(6)
    else:
        y_val.append(7)
X=df['Mean']
Y=y_val
d=cohend(Y,X)
X=sm.add_constant(X)
model = sm.OLS(Y,X)
results = model.fit()
print('Domain : ')
print("p-value : %.2f"%results.pvalues[0])
print("R2 : %.2f"%results.rsquared)
print("Cohen's d : %.2f"%d)

```

Photorealistic :

p-value : 0.00

R2 : 0.84

Cohen's d : 0.86

Human Recognizable Objects :

p-value : 0.00

R2 : 0.85

Cohen's d : 0.83

Human Depiction :

p-value : 0.00

R2 : 0.83

Cohen's d : 0.83

Skeuomorphism :

p-value : 0.00
R2 : 0.81
Cohen's d : 0.79

Title :
p-value : 0.00
R2 : 0.85
Cohen's d : 0.89

Axis :
p-value : 0.00
R2 : 0.89
Cohen's d : 0.90

Key :
p-value : 0.00
R2 : 0.75
Cohen's d : 0.81

Title and Key :
p-value : 0.00
R2 : 0.79
Cohen's d : 0.82

Text Volume :
p-value : 0.00
R2 : 0.89
Cohen's d : 0.92

Data Labels :
p-value : 0.00
R2 : 0.78
Cohen's d : 0.79

Data Ink Ratio :
p-value : 0.00
R2 : 0.59
Cohen's d : 0.43

Visual Density :
p-value : 0.00
R2 : 0.66
Cohen's d : 0.56

Data Scale :
p-value : 0.00
R2 : 0.07
Cohen's d : 0.12

Message Redundancy :
p-value : 0.00
R2 : 0.81
Cohen's d : 0.77

Data Redundancy :

p-value : 0.00
R2 : 0.09
Cohen's d : 0.28

Highlights :
p-value : 0.00
R2 : 0.75
Cohen's d : 0.71

Arrows :
p-value : 0.00
R2 : 0.68
Cohen's d : 0.70

Color :
p-value : 0.00
R2 : 0.71
Cohen's d : 0.73

Background Color :
p-value : 0.00
R2 : 0.81
Cohen's d : 0.77

3D :
p-value : 0.00
R2 : 0.53
Cohen's d : 0.33

Gridlines :
p-value : 0.00
R2 : 0.48
Cohen's d : 0.29

Caption :
p-value : 0.00
R2 : 0.72
Cohen's d : 0.78

Data Source :
p-value : 0.00
R2 : 0.05
Cohen's d : 0.17

Dimensionality :
p-value : 0.00
R2 : 0.05
Cohen's d : 0.11

Pictorial Units :
p-value : 0.00
R2 : 0.85
Cohen's d : 0.86

Domain :

p-value : 0.00
R2 : 0.01
Cohen's d : 0.08

In []: