32): df.boxplot(figsize=(20,10), by='supp') plt.suptitle('BoxPlot', x=0.5, y=1.02, ha='center', fontsize='large') plt.tight_layout() plt.show()  BoxPlot	opparent effect, what is the probability of seeing throughing a test the algorithment of the seed of the seed of the seed of the probability interpretation and the algorithment of the probability interpretation of the seed of the
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t, p = ssipy.stata.steat_ind(a=df.len,b=df.dose, equal_vor = False)  print("b-test value is: ",p) print("b-value value is: ",p) print("b-value value is: ",p) print("b-value value is: ",p) T-test value is: 1.38052515694693936-25  ANOVA  First, we group the data into categories as the one-way ANOVA can't work with continuous variable - usin we will create a new column for this newly assigned group our categories will be teachers that are:  - 40 years and younger - between 40 and 57 years - 57 years and older  State the hypothesis  - # <sub>0</sub> : µ <sub>1</sub> = µ <sub>2</sub> (the two population means are equal) - # <sub>1</sub> : At least one of the means differ  One Way ANOVA  7 : mod = ols("len-supp", data=df).fit() 8 : aov_tabbe = am.stata.acova_lm(mod,typ=2)   avv_tabbe = am.stata.acova_lm(mod,typ=2)   avv_tabbe = am.stata.acova_lm(mod,typ=2)   avv_tabbe = df	ntinuous variable - using the example from the achers that are:
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ANOVA  First, we group the data into categories as the one-way ANOVA can't work with continuous variable - usin we will create a new column for this newly assigned group our categories will be teachers that are:  • 40 years and younger • between 40 and 57 years • 57 years and older  State the hypothesis • # <sub>0</sub> : µ <sub>1</sub> = µ <sub>2</sub> (the two population means are equal) • # <sub>1</sub> : At least one of the means differ  One Way ANOVA  7]: mod = ols (*lien-supp*, data=df).fit()    aov_table = xm.stats.anova_lm(mod,typ=2)   supp	achers that are:
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<ul> <li>H<sub>0</sub>: Teaching evaluation score is not correlated with beauty score</li> <li>H<sub>1</sub>: Teaching evaluation score is correlated with beauty score</li> <li>scipy.stats.pearsonr(df['len'], df['dose'])</li> </ul>	nd dose have association with tooth length.
5]: scipy.stats.pearsonr(df['len'], df['dose'])	
6]: df.corr() 6]: len dose	
len 1.000000 0.802691  dose 0.802691 1.000000	
Regression Analysis 7]: df.columns	
<pre>df.columns  7]: Index(['len', 'supp', 'dose'], dtype='object')  8]: y = df['len']</pre>	
<pre>8]: y = df['len'] X = df['dose']  9]: X = sm.add_constant(X)</pre>	
<pre>0]: model = sm.OLS(y, X).fit()  1]: model.summary()</pre>	
OLS Regression Results  Dep. Variable: len R-squared: 0.644	
Model:OLSAdj. R-squared:0.638Method:Least SquaresF-statistic:105.1Date:Wed, 10 Mar 2021Prob (F-statistic):1.23e-14	
Time: 18:41:25 Log-Likelihood: -175.70  No. Observations: 60 AIC: 355.4  Df Residuals: 58 BIC: 359.6	
Df Residuals: 58 BIC: 359.6  Df Model: 1  Covariance Type: nonrobust	
coef         std err         t         P> t          [0.025         0.975]           const         7.4225         1.260         5.890         0.000         4.900         9.945           dose         9.7636         0.953         10.250         0.000         7.857         11.670	