141 142 143 144	1960-08 606
	1960-09 508 1960-10 461 1960-11 390 1960-12 432 rows × 2 columns ["Month"] = pd.to_datetime(df["Month"], infer_datetime_format=True) dexed_df = df.set_index("Month") texed_df #Passengers
194 194 194 194 196	Month 0-01-01 112 0-02-01 118 0-03-01 132 0-04-01 129 0-05-01 121 0-08-01 606 0-09-01 508 0-10-01 461
1966 144]: from impl	O-12-01 390 O-12-01 432 Tows × 1 columns Tom datetime import datetime cort matplotlib.pyplot as plt t.plot(indexed_df) atplotlib.lines.Line2D at 0x270d0e89e80>]
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194 194 194 194 194	_log_diff = indexed_df_log-rol_mean_log #Passengers Month -0-01-01 NaN -0-02-01 NaN -0-03-01 NaN -0-04-01 NaN -0-05-01 NaN -0-05-01 NaN -0-05-01 NaN -0-05-01 0.282363
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133 : ro. ro. pl pl pl	<pre>crows x 1 columns l_mean_log_diff = df_log_diff.rolling(window=12).mean() l_std_log_diff = df_log_diff.rolling(window=12).std() t.plot(df_log_diff,c="b") t.plot(rol_mean_log_diff,c="r") t.plot(rol_std_log_diff,c="black") atplotlib.lines.Line2D at 0x270de293700>] </pre>
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ro. ro. pl pl pl cl	<pre>l_mean_exp = df_log_diff.rolling(window=12).mean()</pre>
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-0.1 -0.2	
	<pre>plt.figure(figsize=(20,10)) actual=plt.plot(timeseries, color='red', label='Actual') mean_6=plt.plot(rolmean, color='green', label='Rolling Mean') std_6=plt.plot(rolstd, color='black', label='Rolling Std') plt.legend(loc='best') plt.title('Rolling Mean & Standard Deviation') plt.show(block=False) print('Dickey-Fuller Test: ') dftest=adfuller(timeseries['#Passengers'], autolag='AIC') dfoutput=pd.Series(dftest[0:4], index=['Test Statistic','p-value','Lags Used','No. of Obs']) for key,value in dftest[4].items(): dfoutput['Critical Value (%s)'*key] = value print(dfoutput) _shift=df_shift.dropna() ationarity(df_shift)</pre>
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