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Python 3.9.13 (main, Aug 25 2022, 23:51:50) [MSC v.1916 64 bit (AMD64)]
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IPython 7.31.1 -- An enhanced Interactive Python.
In [1]: import numpy as np
  ...: import pandas as pd
  ...: from scipy.stats import norm
  ...: import matplotlib.pyplot as plt
  ...: import astroML
In [2]: n1= np.random.normal(0,1,1001)
In [3]: n2= np.random.normal(0,1,1001)
In [4]: from scipy.stats import pearsonr
In [5]: re, b = pearsonr(n1, n2)
  ...: print("Pearson correlation coefficient is {}".format(re))
  ...: print("p-value is {}".format(b))
Pearson correlation coefficient is 0.01630235367816129
p-value is 0.6064320186923496
In [6]: from scipy.stats import ttest_ind
   ...: stat, p t = ttest ind(n1, n2)
   ...: print("p-value from t-distribution is {}".format(p t))
p-value from t-distribution is 0.5331362876360493
In [7]:
```