20250527_01

May 27, 2025

```python
[7]: import seaborn as sns
     from scipy import stats
```

```python
[8]: iris = sns.load_dataset("iris")
```

```python
[11]: setosa_petal_length = iris[iris['species'] == 'setosa']['petal_length']
      versicolor_petal_length = iris[iris['species'] == 'versicolor']['petal_length']
```

```python
[12]: t_stat, p_value = stats.ttest_ind(setosa_petal_length, versicolor_petal_length)

      print(f"T-statistic: {t_stat:.3f}")
      print(f"P-value: {p_value:.3f}")
```

```
T-statistic: -39.493
P-value: 0.000
```