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import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import numpy as np

np.random.seed(42)
data = {
    'X': np.random.rand(100) * 10,
    'Y': 2 * (np.random.rand(100) * 10) + np.random.randn(100) * 5
}
df = pd.DataFrame(data)

plt.figure(figsize=(8, 6))
sns.lmplot(x='X', y='Y', data=df, aspect=1.5, height=6)
plt.title('Linear Model Plot of X vs Y')
plt.xlabel('Independent Variable (X)')
plt.ylabel('Dependent Variable (Y)')
plt.grid(True, linestyle='--', alpha=0.6)
plt.show()

<Figure size 800x600 with 0 Axes>

```

