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In [11]: # 3.distribution of daily website visitors using histogram
import numpy as np
import matplotlib.pyplot as plt

# Generate random data for daily visitors using NumPy
np.random.seed(42) # For reproducibility
daily_visitors = np.random.normal(loc=300, scale=50, size=1000) # Mean=300, Sta

# Create histogram
plt.figure(figsize=(8, 6))
plt.hist(daily_visitors, bins=20, color='skyblue', edgecolor='black')
plt.title('Distribution of Daily Website Visitors')
plt.xlabel('Number of Visitors')
plt.ylabel('Frequency')
plt.grid(axis='y', linestyle='--', alpha=0.7)

# Display histogram
plt.show()
```

