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In [2]: import numpy as np
import matplotlib.pyplot as plt
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In [3]: data = np.random.uniform(0, 1, 1000)
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In [7]: plt.figure(figsize=(10,10))
plt.hist(data, bins=100, color='orange', edgecolor='black')

plt.xlabel('Value')
plt.ylabel('Frequency')
plt.title('Random Histogram')

plt.savefig('uniform_histogram.pdf')

plt.show()
```

