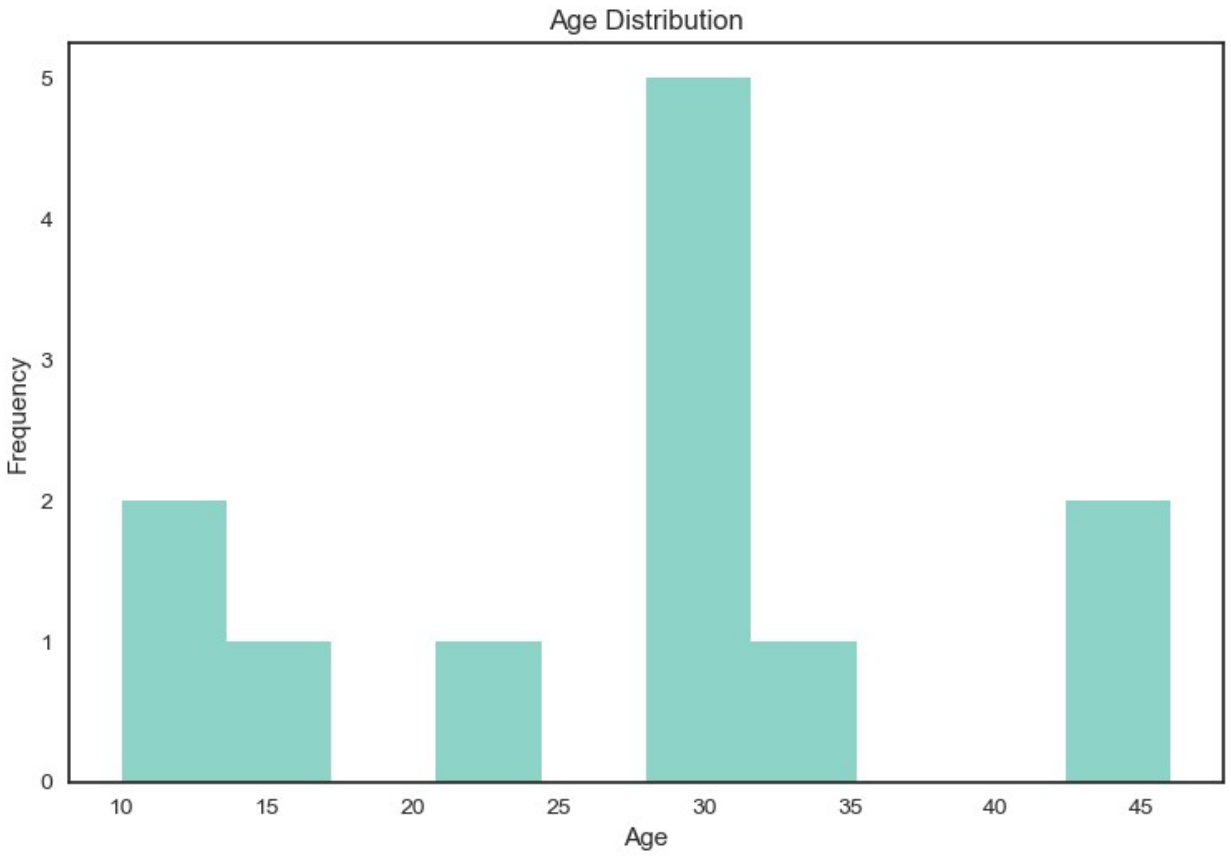
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
plt.style.use("seaborn-v0_8-white")
```

Histogram

```
ages = [10, 30, 45, 30, 31, 46, 12, 16, 32, 23, 28, 29]

plt.hist(ages)

plt.title('Age Distribution')
plt.xlabel("Age")
plt.ylabel("Frequency")
plt.show()
```

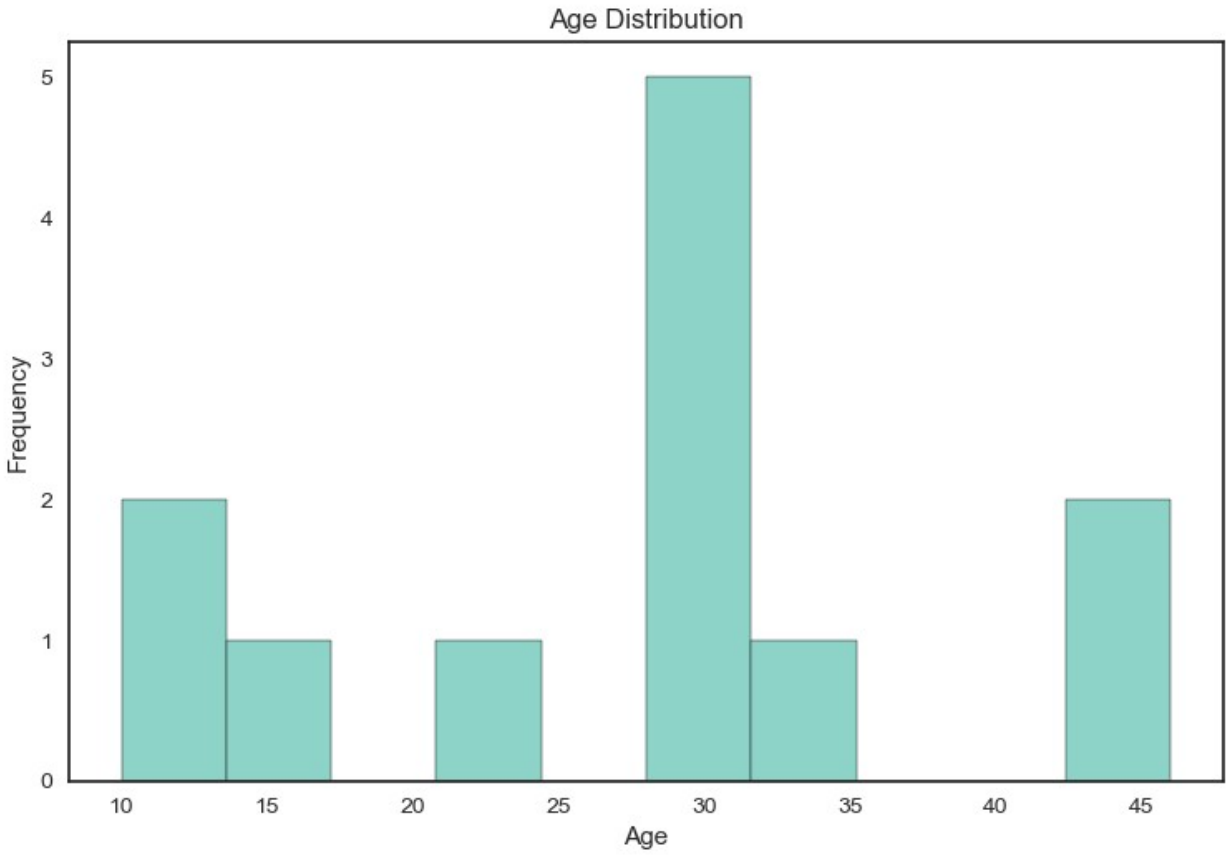


Change The Edge Color Of The Bins

```
ages = [10, 30, 45, 30, 31, 46, 12, 16, 32, 23, 28, 29]
```

```
plt.hist(ages, edgecolor="black")

plt.title('Age Distribution')
plt.xlabel("Age")
plt.ylabel("Frequency")
plt.show()
```



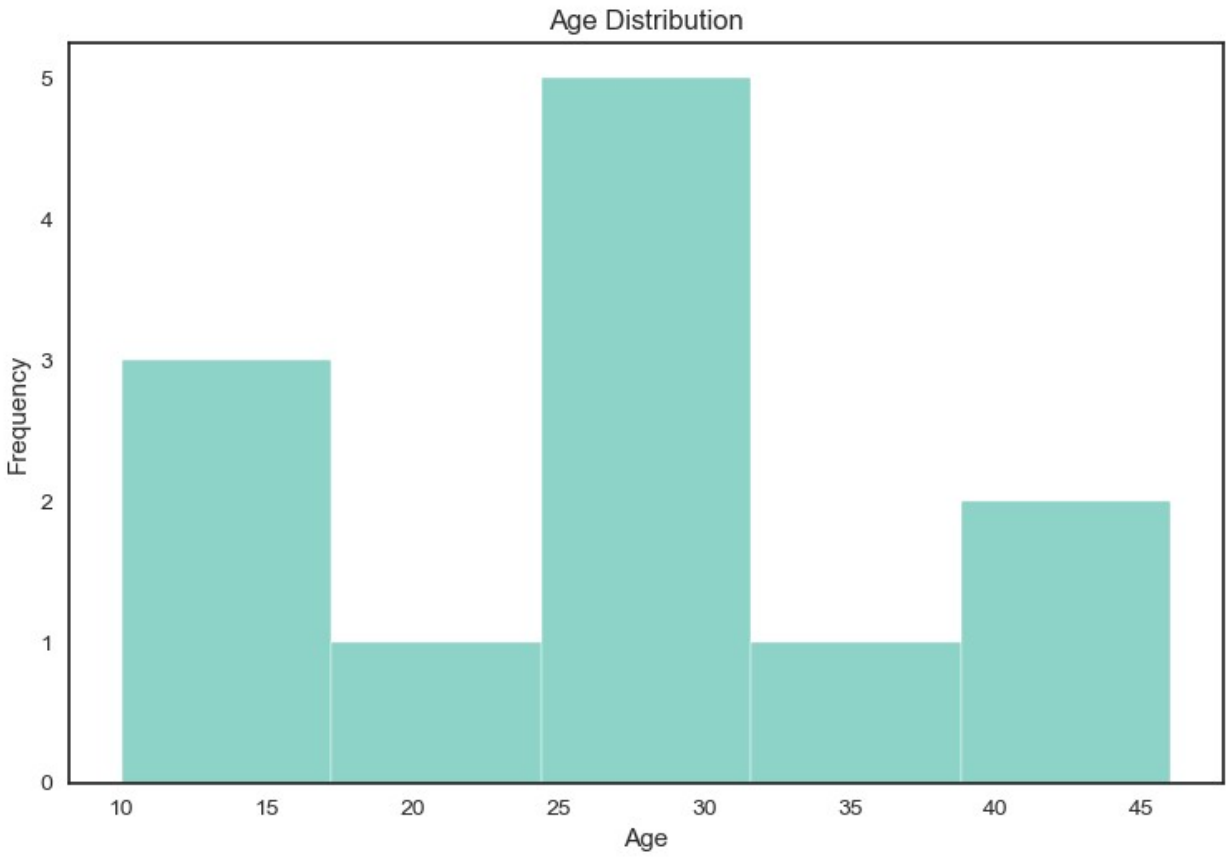
Rearange The Bins

- Will arrane the data in 5 bins only

```
ages = [10, 30, 45, 30, 31, 46, 12, 16, 32, 23, 28, 29]

plt.hist(ages, bins=5, edgecolor="#fff")

plt.title('Age Distribution')
plt.xlabel("Age")
plt.ylabel("Frequency")
plt.show()
```



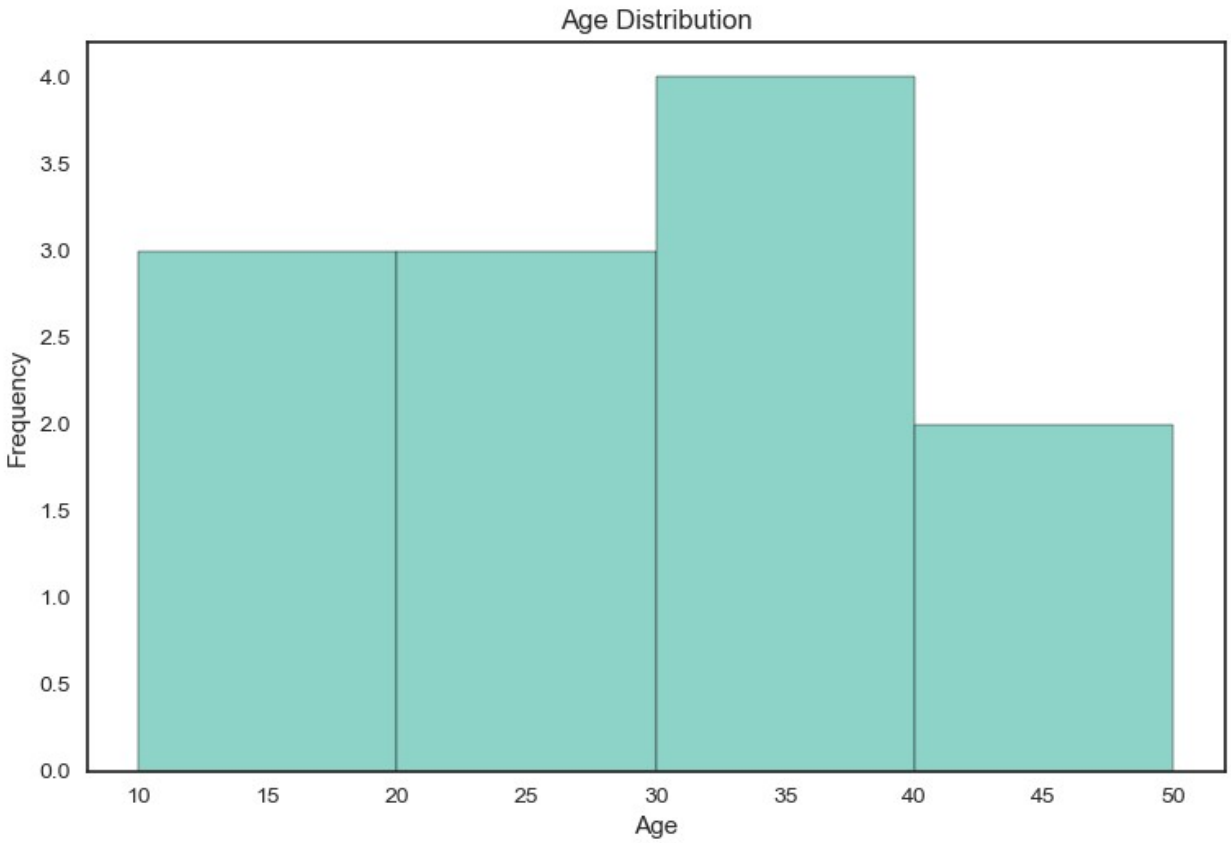
Change The X-axis Values

```
ages = [10, 30, 45, 30, 31, 46, 12, 16, 32, 23, 28, 29]

# change the x-axis values
bins = [10, 20, 30, 40, 50]

plt.hist(ages, bins=bins, edgecolor="#000")

plt.title('Age Distribution')
plt.xlabel("Age")
plt.ylabel("Frequency")
plt.show()
```



Make Histogram For Real Dataset

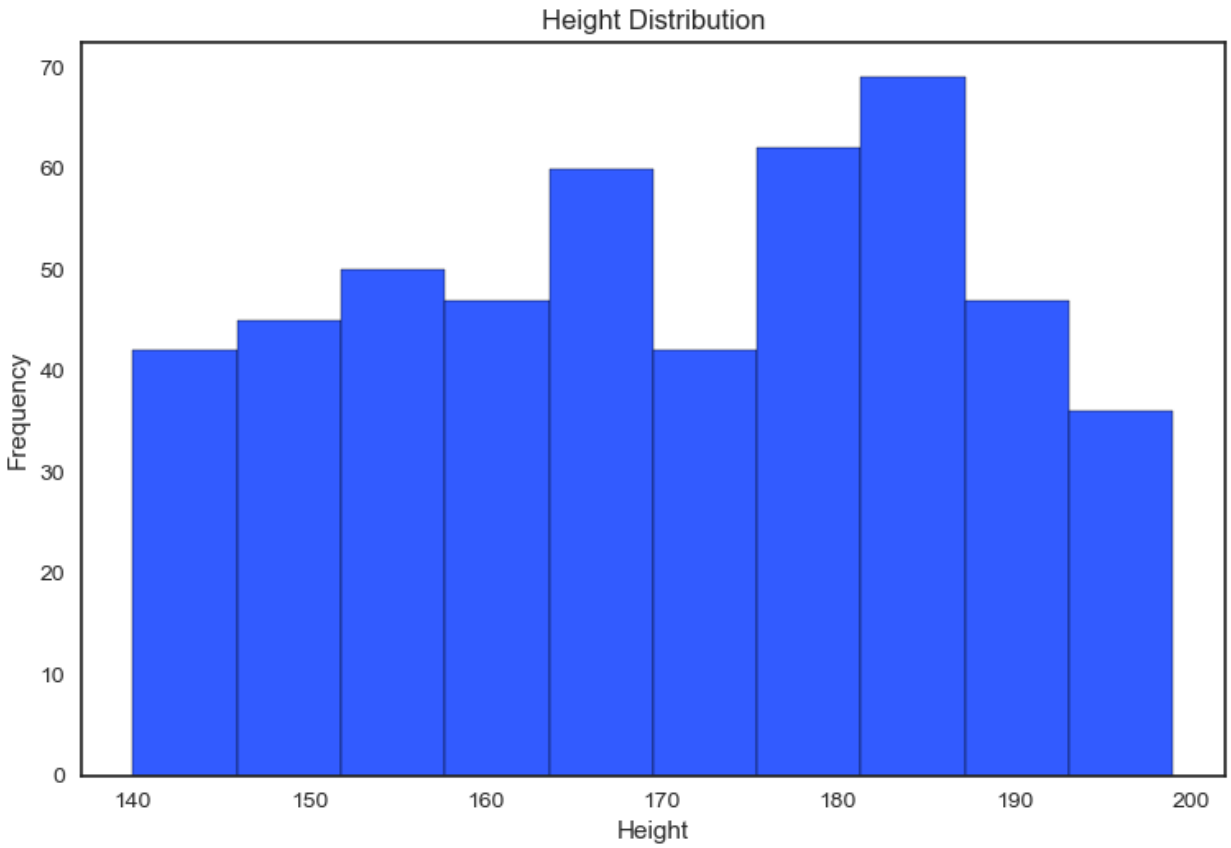
Read The Data

```
data = pd.read_csv("500_Person_Gender_Height_Weight_Index.csv")
data.head()
```

	Gender	Height	Weight	Index
0	Male	174	96	4
1	Male	189	87	2
2	Female	185	110	4
3	Female	195	104	3
4	Male	149	61	3

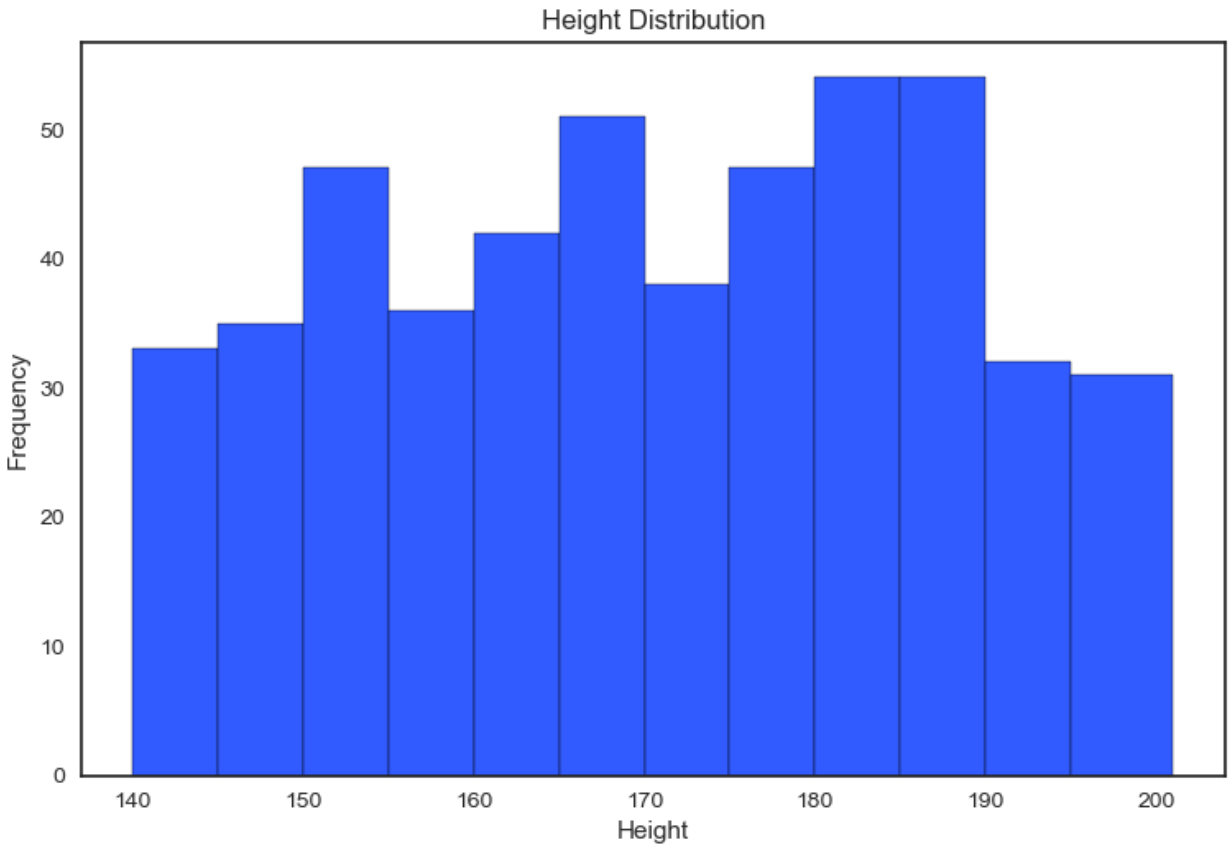
Make Histogram To The Height

```
height = data["Height"]
plt.hist(height, edgecolor="#000", color="#325bff")
plt.title("Height Distribution")
plt.xlabel("Height")
plt.ylabel("Frequency")
plt.show()
```



Edit The Bins

```
height = data["Height"]
bins = [140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195,
201]
plt.hist(height, edgecolor="#000", color="#325bff", bins=bins)
plt.title("Height Distribution")
plt.xlabel("Height")
plt.ylabel("Frequency")
plt.show()
```


Height Distribution
Frequency
Height
0
10
20
30
40
50
140
150
160
170
180
190
200