

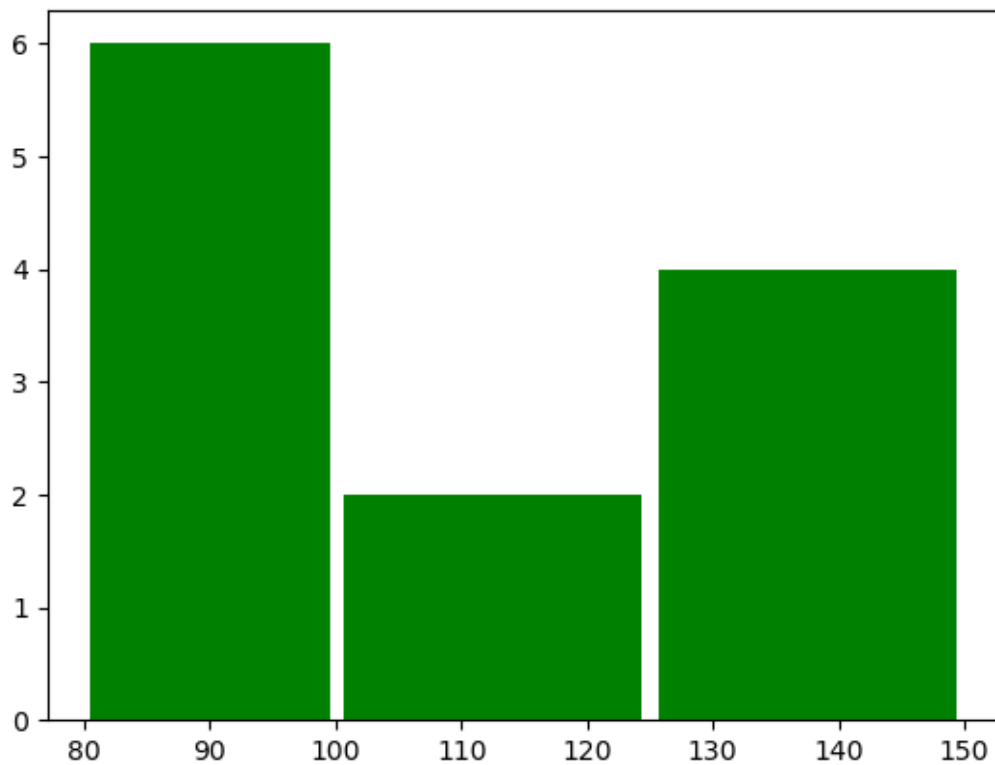
Matplot_histogram

January 31, 2026

```
[1]: import matplotlib.pyplot as plt  
      %matplotlib inline
```

```
[10]: blood_sugar = [113, 85, 90, 150, 149, 88, 93, 115, 135, 80, 77, 82, 129]  
      plt.hist(blood_sugar, bins=[80,100,125,150], rwidth=0.95, color='g')
```

```
[10]: (array([6., 2., 4.]),  
      array([ 80., 100., 125., 150.]),  
      <BarContainer object of 3 artists>)
```

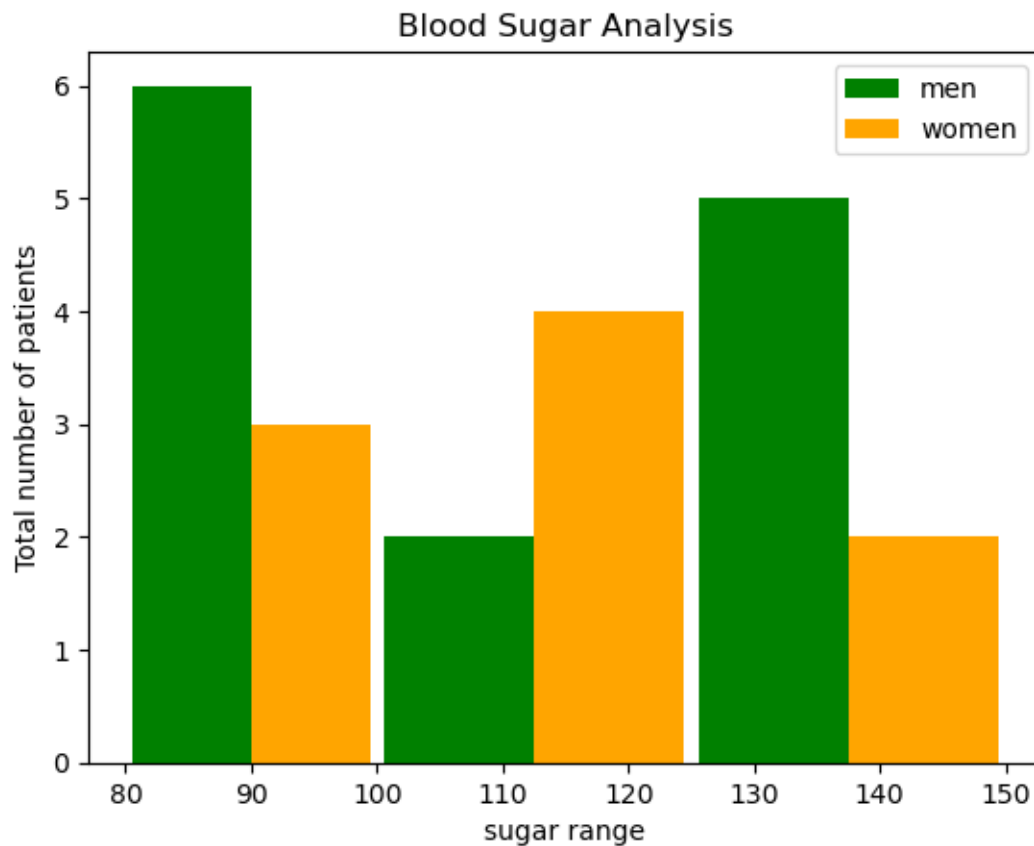


```
[11]: blood_sugar_men = [113, 85, 90, 150, 149, 88, 93, 115, 135, 135, 80, 77, 82, ↵  
      ↪129]
```

```
blood_sugar_women = [67, 98, 120, 133, 150, 84, 69, 89, 79, 120, 112, 100]
```

```
[15]: plt.xlabel('sugar range')
plt.ylabel('Total number of patients')
plt.title('Blood Sugar Analysis')
plt.hist([blood_sugar_men, blood_sugar_women], bins=[80, 100, 125, 150],
         rwidth=0.95, color=['green', 'orange'],
         label=['men', 'women'])
plt.legend()
```

[15]: <matplotlib.legend.Legend at 0x1c8f471bd90>

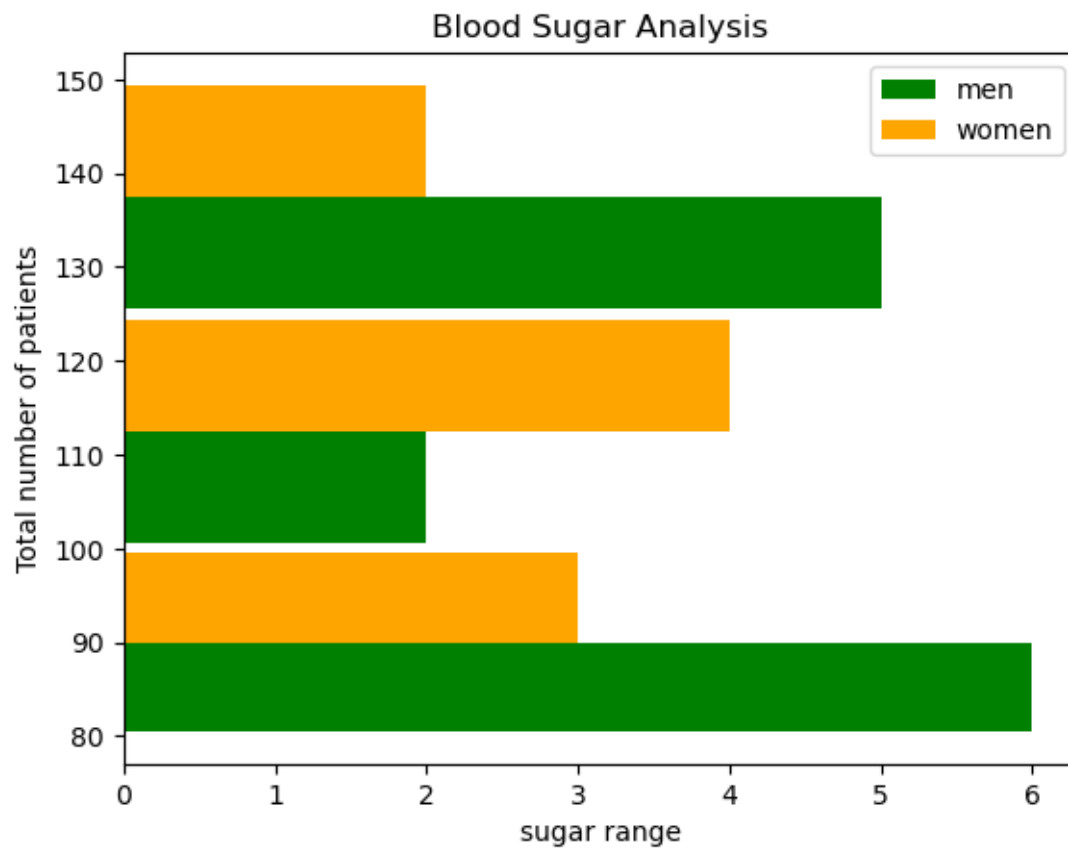


0.1 Orientation Property of histograms

```
[16]: plt.xlabel('sugar range')
plt.ylabel('Total number of patients')
plt.title('Blood Sugar Analysis')
plt.hist([blood_sugar_men, blood_sugar_women], bins=[80, 100, 125, 150],
         rwidth=0.95, color=['green', 'orange'],
```

```
label=['men', 'women'], orientation='horizontal')
plt.legend()
```

[16]: <matplotlib.legend.Legend at 0x1c8f42b47d0>



[]: