

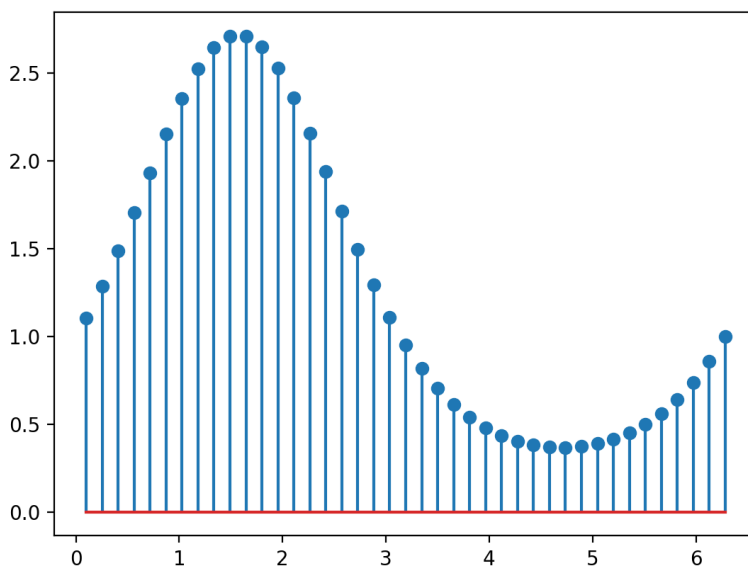
Stem Plot

`stem` plots vertical lines from a baseline to the y-coordinate and places a marker at the tip.

```
import matplotlib.pyplot as plt
import numpy as np

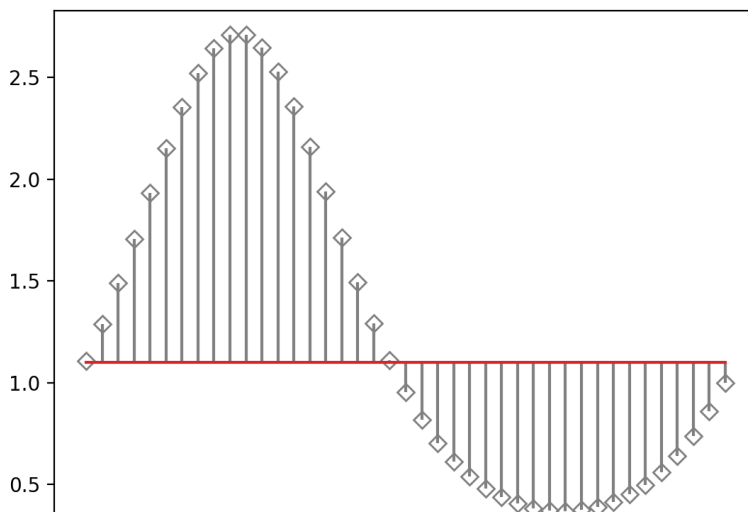
x = np.linspace(0.1, 2 * np.pi, 41)
y = np.exp(np.sin(x))

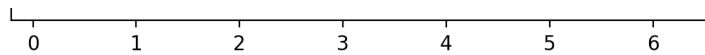
plt.stem(x, y)
plt.show()
```



The position of the baseline can be adapted using `bottom`. The parameters `linefmt`, `markerfmt`, and `basefmt` control basic format properties of the plot. However, in contrast to `plot` not all properties are configurable via keyword arguments. For more advanced control adapt the line objects returned by `pyplot`.

```
markerline, stemlines, baseline = plt.stem(
    x, y, linefmt='grey', markerfmt='D', bottom=1.1)
markerline.set_markerfacecolor('none')
plt.show()
```





References

The use of the following functions, methods, classes and modules is shown in this example:

- [matplotlib.axes.Axes.stem](#) / [matplotlib.pyplot.stem](#)

📄 Download Python source code: [stem_plot.py](#)

📄 Download Jupyter notebook: [stem_plot.ipynb](#)

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