#### Issue #7869

# Bug: Take text objects into account in legend auto positioning

https://github.com/matplotlib/matplotlib/issues/7869

Branch with Fix: <a href="https://github.com/RiazCharania/matplotlib/commits/issue\_7869">https://github.com/RiazCharania/matplotlib/commits/issue\_7869</a>

# **System Testing:**

For this phase, all of the system tests pass. The build is successful.

## **Acceptance Testing**

### **Prerequisite Steps**

- 1. Download and install matplotlib using the following commands
  - a. python -m pip install -U pip
  - b. python -m pip install -U matplotlib

#### **Acceptance Test 1:**

- 1. Download Issue 7869 Acceptance Test.py.
  - a. There are three test cases included in the file (1 test per window)
    - i. Test legend doesn't show errors with no text
    - ii. Test legend doesn't overlap with one text
    - iii. Test legend doesn't overlap with two texts
- 2. In terminal, run the Python file
- 3. Verify that
  - a. In the window titled, No Text, verify that a graph with a line and legend are shown, with no errors. (Figure 1)
  - b. In the window titled, One Text, verify the graph is shown with the legend, line and text and that the legend has been moved to a different location to not overlap with the text. (Figure 2)
  - c. In the window titled, Two Texts, verify that the graph is shown with the legend, line and texts and that the legend has been moved to a different location to not overlap with either of the texts. (Figure 3)

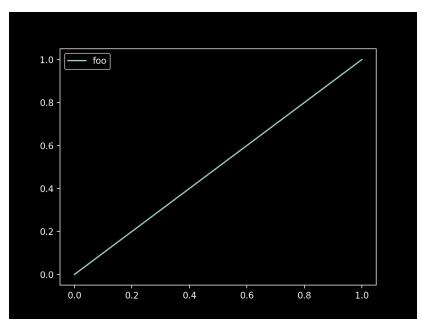


Figure 1

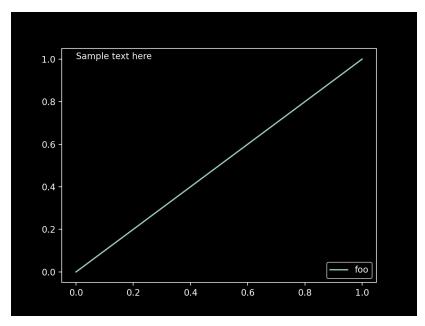


Figure 2

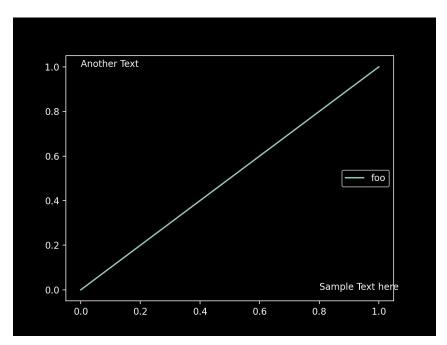


Figure 3