

# Issue #7869:

**Take text objects into account in legend auto positioning**

**Branch with fix: [https://github.com/RiazCharania/matplotlib/commits/issue\\_7869](https://github.com/RiazCharania/matplotlib/commits/issue_7869)**

## System testing:

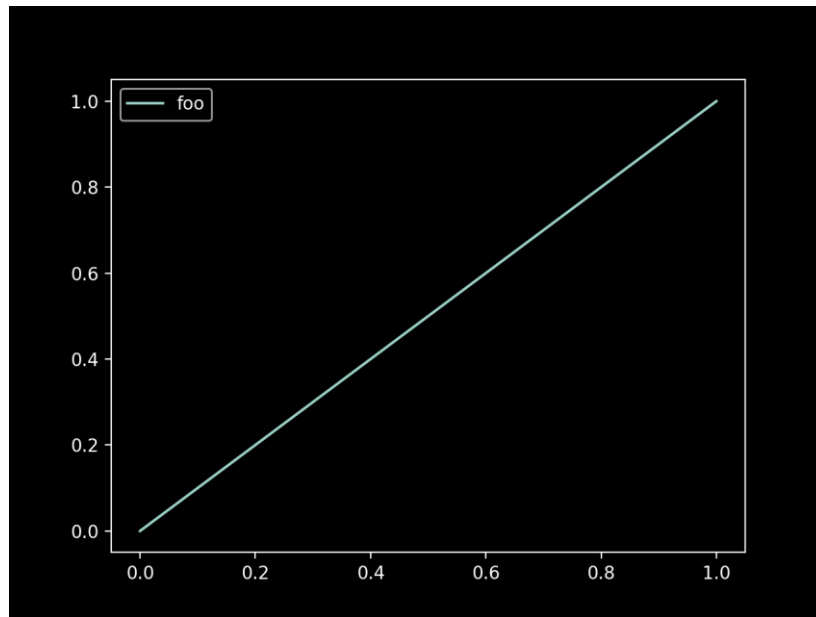
Check status at: <https://travis-ci.com/github/RiazCharania/matplotlib/branches>

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

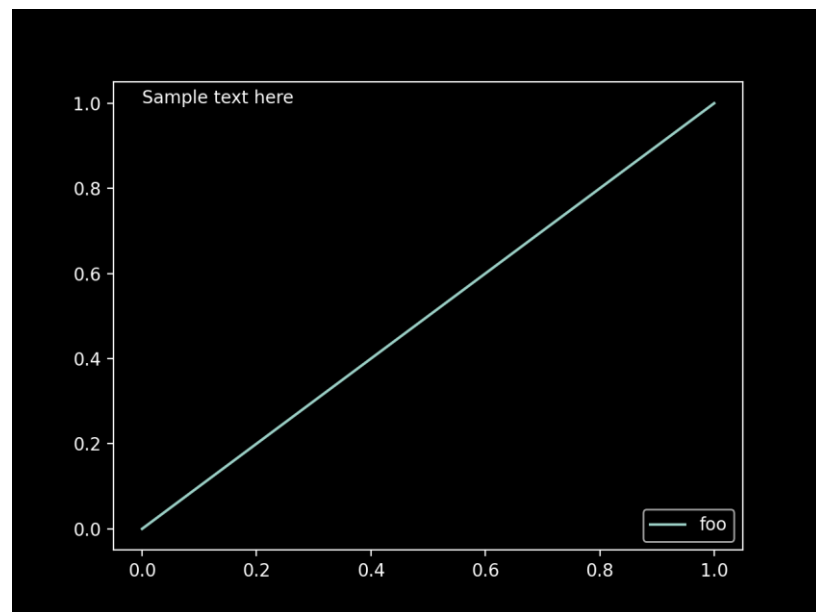
## Acceptance testing:

1. If you haven't already, follow the instructions in the Deliverable 2 README
2. cd to directory dir
3. Checkout and build branch issue\_7869 by running
  - a. cd matplotlib
  - b. git checkout issue\_7869
  - c. python setup.py build
  - d. cd ..
4. Download Issue\_7869\_Acceptance\_Test.py to dir
  - 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
5. run Issue\_7869\_Acceptance\_Test.py
  - a. python Issue\_7869\_Acceptance\_Test.py
6. Verify that
  - a. In the window titled, No Text, verify that there is a graph with a line and a legend. (Figure 1)
  - b. In the window titled, One Text, verify that there is a graph with a legend, a line and a textbox and that the legend has been moved to a different location to not overlap with the text. (Figure 2)

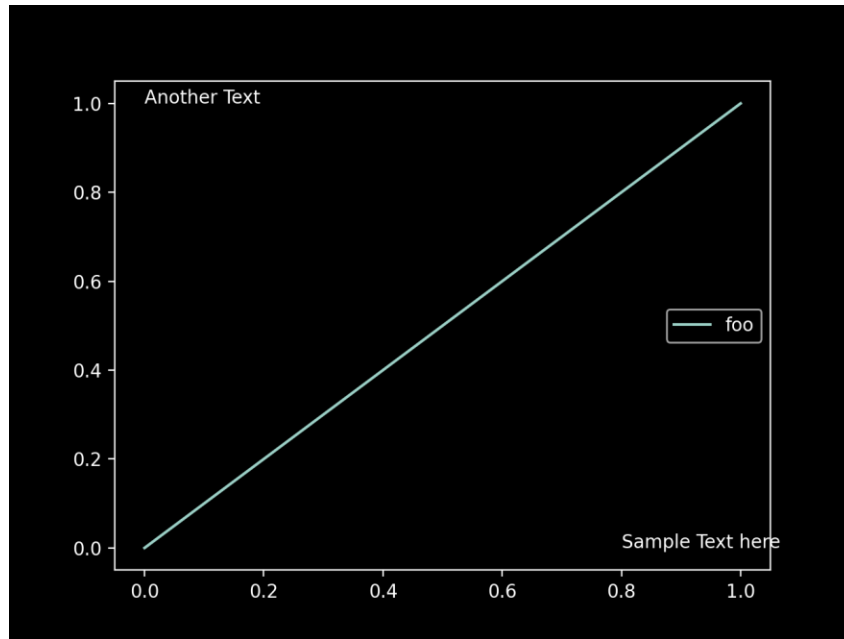
- c. In the window titled, Two Texts, verify that there is a graph with a legend, a line and 2 textboxes and that the legend has been moved to a different location to not overlap with either of the texts. (Figure 3)



**Figure 1**



**Figure 2**



**Figure 3**