

Issue #14743
logit scale ignores limits when no data is plotted(original)
logitlocator misses tick at edge of axis(followup)
<https://github.com/matplotlib/matplotlib/issues/14743>

Description:

Original issue:

The original issue is logit scale ignores limits when no data is plotted, however we found that this issue can be generalized for other situations that data is plotted and limit of y is defined. According to the issue post, the issue has already been fixed by [Pull Request #14928](#). However, when we tested it, the issue is still not producing the expected result.

Followup issue:

Based on the issue post, there is a followup issue that there is no tick at the upper bound of limit of y.

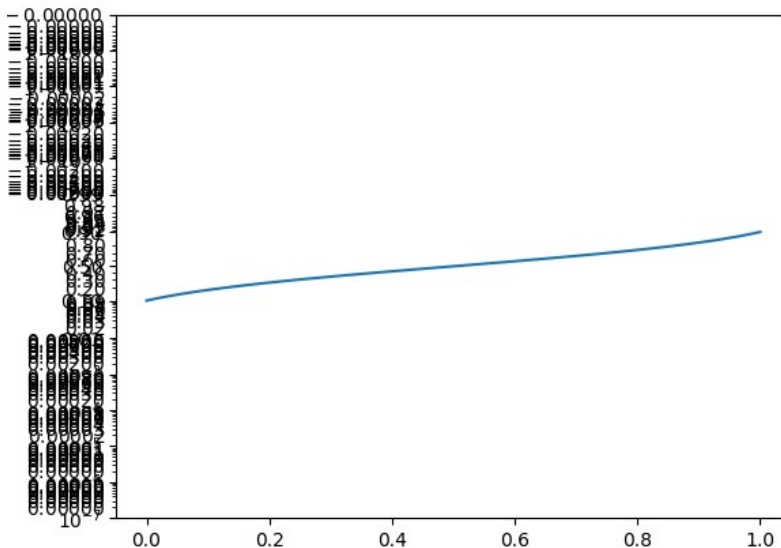
Related issue:

Another issue related is there are way too many ticks on the y axis causing the graph to be nearly unreadable. This issue is supposed to be fixed by [Pull Request #14512](#). However, as far as we tested, the issue is not yet fixed in master.

Reproduction Steps:

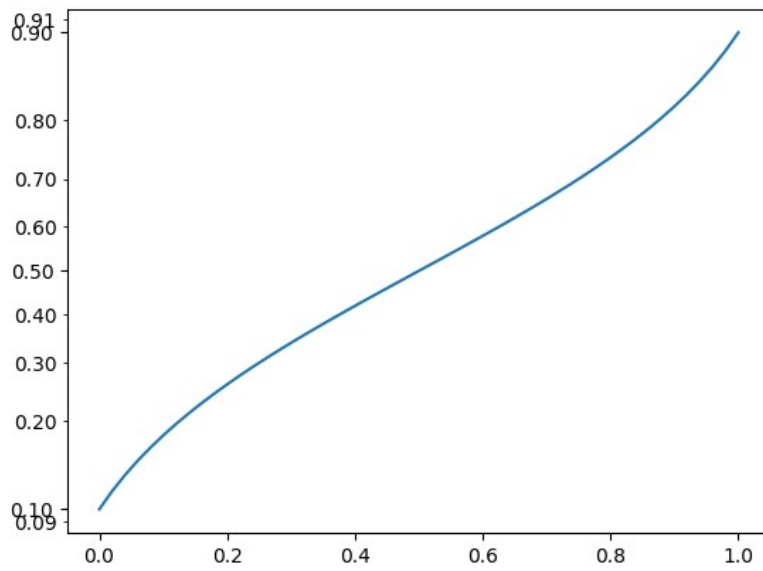
1. Install matplotlib packages
 sudo apt-get install python3-pip
 sudo pip3 install numpy
 sudo pip3 install matplotlib
2. Download the 'bug_ticks.py' file
3. Run the file, a figure should be generated.

Actual Result:



As shown in the graph, there are way too many ticks and the specified limit for y is ignored.

Expected Result:



There is reduced number of ticks and the set limit of y is respected