

Issue #15225

Bug: Show offset text on subplots after sharing axis

<https://github.com/matplotlib/matplotlib/issues/15225>

Potential Source of the bug:

The bug seems to be caused by setting the xticks label to true. It appears that the 1e# does not show up whenever you are sharing the x axis and want the x-axis to appear on a sub plot in which it does not have a sub plot directly under it on the last row. It seems that whenever you are setting the labelBottom=True for the xticks param, the offsetText is not becoming visible.

Impacts on other parts of the system:

Once the bug is fixed it won't be affecting the other parts of the system because it is mainly focused on the labelling of the x axis properly whenever you are sharing axis and want to show the offset text.

Estimated time for completion:

Software Design Phase (4 days):

In this phase we are mainly just checking where the bug is in the code and what methods or classes you would need to fix the bug. This phase takes longer because it's hard to figure out the scope of the labelBottom and offsetText and how they should be correlated with each other.

Implementation stage and Unit testing (2 days):

In this phase you are implementing the a fix for the bug. The other day can be used to write the unit tests to make sure the fixes are implemented correctly.

Integration and System Testing (2 days):

In this phase we would run the existing unit tests to make sure the fixed on the bugs did not break the existing system. If there are errors that happen, then need to have time to see what the problem is a find a solution to fix it.

Operation and Maintenance (< 1 day):

In this phase we are just submitting a pull request and waiting to see if it gets approved so it won't take long to submit a pull request.