

<https://github.com/matplotlib/matplotlib/issues/13440>

1. Parent artist is the YAxis, when YAxis is called to draw itself, it also calls all sub-artist that it contains to also draw themselves (in this case, all the Ticks - all individual objects)
2. Axis -> Tick -> Tick label (Text)
3. Each Tick label is associated with a Tick, and when Tick is called to draw itself, it will call its associated Tick label to draw itself.

Text class - text.py - draw()

line 689-690 posx posy refers to the absolute position of the text on the canvas
if we can get textalignment property here, we can set posx to be the most left (maybe)
- after transform though on 691
- we can use get_horizontalalignment

Tick class - axis.py - draw()

each tick's artist child including label1 (left/bot) label2 (right/top)
is called to draw themselves

Axis class - axis.py - draw()

line 1142 grabs a list of all ticks associated to that axis
and ticklabelboxes are grabbed on the following line
idea: grab the max width here and set their position accordingly if needed
- each text object has a get_position() and set_position((x,y))
- however get_position() refers to text position in Text

YAxis may need to override set_tick_params() where we pop off horizontalalignment
first and then call super().set_tick_params() and finally update all ticklabels
with self._apply_params()? or maybe make a new function to handle it
- this assumes that the artist has already rendered or it will crash

Note:

Tick class - line 379 after setting attr, pop horizontalalignment off
default to None

line 377 - axis.py

```
for k, v in tick_kw.items():
    setattr(self, '_' + k, v)

if 'labelrotation' in kw:
    self._set_labelrotation(kw.pop('labelrotation'))
    self.label1.set(rotation=self._labelrotation[1])
    self.label2.set(rotation=self._labelrotation[1])
```

pop off the horizontalalignment here

ticks are created when the axis needs them (i.e. axes are pointers to these ticks)

line 712 - axis.py

creating ticks are slow, so they create it dynamically

tick is stored in axis

text.py

- handles all the texts in matplotlib

text wrapping would be messy if we fix with the bounding box

outcome: want to be able to set where the ticks align to

axis - label_axis...but have nothing to do with the tick labels

Pass down additional info to drawing the ticks - axis - should manage the tick alignment