

Qt Support Request

Re-implementing QHeaderView and drawing cells using styled drawing.

Intendent effect

Table view should draw vertical text in cells of **horizontal** header. Hereby, the original styling (bold face of text for selected columns, hover effect of mouse etc.) should be maintained.

Attempted solutions

Two variants were tested:

1. Use of QProxyStyle as described here:

[https://wiki.qt.io/Technical_FAQ#How can I display vertical text in the section of a QHeaderView.3F](https://wiki.qt.io/Technical_FAQ#How_can_I_display_vertical_text_in_the_section_of_a_QHeaderView.3F)

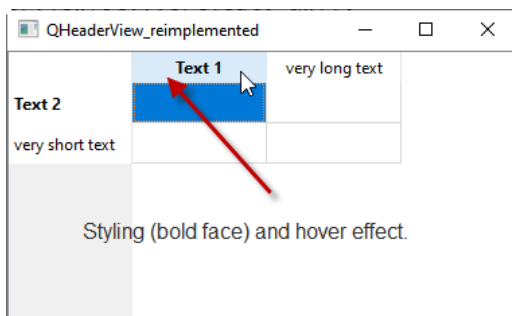
2. Subclassing QHeaderView and re-implementing paintSection():

Both show same problem as described below.

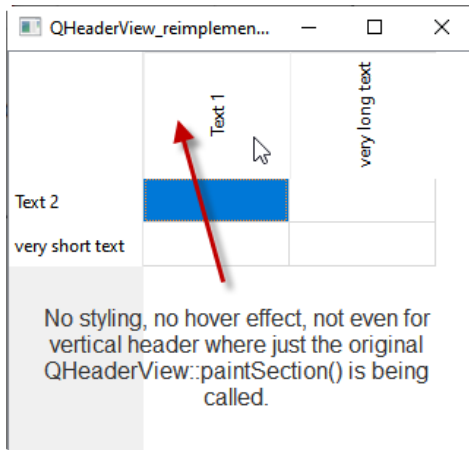
Observations

Drawing vertical text in cells is possible, yet styling is lost. Also, vertical text drawn by QPainter loses antialiasing:

Original QHeaderView and custom QHeaderView **without** reimplementing paintSection()



Custom QHeaderView with reimplemented paintSection(). On vertical header, just the original QHeaderView::paintSection() is being called, but still styling and hover effect is lost.



Strangely, when using the custom class, but **not** re-implementing paintSection(), the styled drawing works. It seems that Qt paint code distinguishes between **having** an own paintSection() function or not. Without the paintSection() function, apparently a different paint routine is being used.

Example code

See attached code archive: QHeaderView_reimplemented.7z

In main.cpp:17 define custom header view on/off to reproduce effect.

Questions

1. What needs to be changed in the code to get properly styled header view cells painted including styling and bold face font for selected?
2. To preserve anti-aliased text rendering I'd like to render the cell first on a temporary pixmap (hereby preserving styling), and then just drawing the pixmap rotated into the cell. Similar as in question 1: what drawing method do I need to use to preserve my styling (font face, size, bold, ... and hover effects)?