# User Interface - Bug #3425

# text is drawn 1-pixel to the left, cutting the text

12/19/2017 06:56 AM - Sergey Ivanovskiy

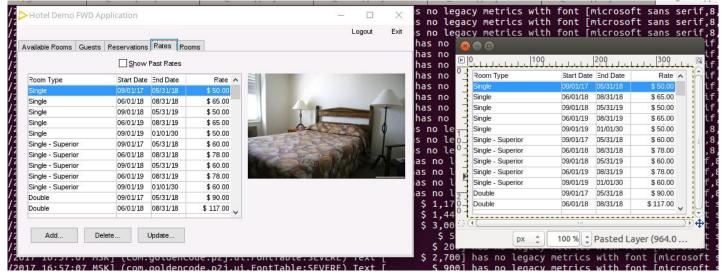
Status: Closed Start date: **Priority:** Normal Due date: Assignee: Stanislav Lomany % Done: 100% Category: **Estimated time:** 0.00 hour Target version: billable: No case\_num: vendor id: GCD version: Description

## History

#### #1 - 12/19/2017 09:25 AM - Sergey Ivanovskiy

- File SwingAndWebTextInBrowser.png added

It seems that header's and cell's content in tables incorrectly positioned. It can be observed for the web and swing clients.



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The web client displays text in tables incorrectly too.

Room Type	Start Date	End Date	Rate	^
Single	09/01/17	05/31/18	\$ 50.00	
Single	06/01/18	08/31/18	\$ 65.00	
Single	09/01/18	05/31/19	\$ 50.00	
Single	06/01/19	08/31/19	\$ 65.00	
Single	09/01/19	01/01/30	\$ 50.00	
Single - Superior	09/01/17	05/31/18	\$ 60.00	
Single - Superior	06/01/18	08/31/18	\$ 78.00	
Single - Superior	09/01/18	05/31/19	\$ 60.00	
Single - Superior	06/01/19	08/31/19	\$ 78.00	
Single - Superior	09/01/19	01/01/30	\$ 60.00	
Double	09/01/17	05/31/18	\$ 90.00	
Double	06/01/18	08/31/18	\$ 117.00	J

## #3 - 12/19/2017 09:30 AM - Sergey Ivanovskiy

- Subject changed from The web client displays texts 1-pixel to the left, cutting the text to The texts are drawn 1-pixel to the left, cutting the text

## #4 - 12/19/2017 09:40 AM - Sergey Ivanovskiy

I didn't implement this function. Please explain the reasons that in the code below the text x-position coordinate is reduced by a pixel

```
CanvasRenderer.prototype.drawText = function(text, x, y, centered)
  if (centered)
      // in this case, the "\gamma" is the height in which it needs to be vertically centered
     this.ctx.textBaseline = 'middle';
  else
     this.ctx.textBaseline = 'alphabetic'; // matches the Swing's baseline
   }
  var cfont = p2j.screen.getCurrentFont();
   /*start debug*/
       var txtHeight = p2j.fonts.getTextHeight(cfont, text);
       var textWidth = p2j.fonts.getTextWidth(cfont, text);
   //
   //
   //
       if (centered)
   11
           this.drawRect(x, y - txtHeight / 2, textWidth, txtHeight, new Array(255, 255, 0), false);
   //
   //
   //
       else
   //
   //
         this.drawRect(x, y - 3 * txtHeight / 4, textWidth, txtHeight, new Array(0, 255, 0), false);
   //
   /*end debug*/
```

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```
this.ctx.fillText(text, x, y);

if (p2j.fonts.isUnderlined(cfont))
{
    // if the style is underline, draw a line under the text
    var txtHeight = p2j.fonts.getTextHeight(cfont, text);
    var textWidth = p2j.fonts.getTextWidth(cfont, text);

var x1 = x;
    var x2 = x + textWidth;
    if (centered)
    {
        y = y + Math.round(txtHeight / 2) - Math.round(txtHeight / 6) + 1;
    }

    this.strokeLineSegment(x1, y, x2, y, this.rawColor);
}
```

## #5 - 12/19/2017 11:06 AM - Sergey Ivanovskiy

Committed revision 11280(3394a) should fix the web text position along a horizontal. It seems that the other text position issues are related to the common code (browser). Should I work on these browser issues?

# #6 - 12/19/2017 11:15 AM - Greg Shah

Should I work on these browser issues?

Yes, but make sure you get input from Stanislav so that you don't cause regressions. He is our browse guru.

# #7 - 12/19/2017 12:21 PM - Sergey Ivanovskiy

OK. It seems that table labels are displayed 1-pixel left due to this code ClassicTheme.this.drawBrowseCellText

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Also there is suspected code that calculates the label clipping rectangle in the case of right alignment labels by these functions BrowseColumnGui.this.getCellTextClipPoint(int viewportIndex) and BrowseColumnGui.this.getCellTextClipRectangle(NativePoint point).

## #8 - 12/19/2017 01:13 PM - Stanislav Lomany

It seems that table labels are displayed 1-pixel left due to this code ClassicTheme.this.drawBrowseCellText

This was added in the very first version of ClassicTheme by Ovidiu, so I cannot comment. As to me, just fix it and check positioning and clipping for swing/web, different themes, first/last/middle/last locked columns, label/cell text, left/right aligned text.

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#### #9 - 12/19/2017 01:19 PM - Ovidiu Maxiniuc

I cannot remember why I added that special processing. Most likely I adjusted that based on offset revealed when comparing the two layers in Gimp. It is possible that the font configuration to had been different. If it is wrong, please drop it.

#### #10 - 12/20/2017 03:24 AM - Sergey Ivanovskiy

Ovidiu Maxiniuc wrote:

It is possible that the font configuration to had been different. If it is wrong, please drop it.

Ovidiu, could you help with correct font setup? It is supposed that text-metrics.xml is filled with all strings with their metrics. I have text-metrics.xml of 59 Mb dated 29.11.2017.

#### #11 - 12/20/2017 03:50 AM - Ovidiu Maxiniuc

The text-metrics.xml for AW was last updated by Constantin on Tue 2017-11-28 22:20:15 +0200 as revno 110. I don't know if I made myself very clear. When I said font configuration I meant the fonts actually used by FWD. For example, I don't recall if I was using MS Sans Serif or Microsoft Sans Serif (see #2765). They look similar but might be slightly different here and there. Probably I was using the unlicensed one at that time. So I suggested to drop my code that translate the text 1 pixel to the left in case the correct font gets cut because of it.

#### #12 - 12/20/2017 04:00 AM - Sergey Ivanovskiy

Thank you, if we don't shift the text by 1 pixel to the left, then some table headers don't fit the column and some right aligned column headers are not fitted the column width too. Planning to check the formula and the column widths with the original ones in these cases but at this moment I don't have a solution.

## #13 - 12/21/2017 02:40 PM - Sergey Ivanovskiy

Please review committed revision 11296 that should fix drawing of labels with help of #3394-88.

#### #14 - 12/21/2017 03:12 PM - Sergey Ivanovskiy

Please review committed revision 11297.

#### #15 - 12/21/2017 03:44 PM - Greg Shah

Code Review Task Branch 3394a Revisions 11296/7

I don't see a specific issue with the changes. However, the validity of the changes to drawBrowseCellText() are not intuitively obvious to me.

Does the general removal of the --x for the label case avoid the left justified labels being truncated?

The cell text still seems too close the left side of the cell. There seems to be no spacing, but I think there is at least a pixel of spacing in the 4GL. Am I mistaken?

Stanislav/Hynek: please review.

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# #16 - 12/21/2017 05:56 PM - Hynek Cihlar

Greg Shah wrote:

Stanislav/Hynek: please review.

Formally, I don't see anything wrong with the code. Maybe I would change the following

```
x = (BrowseColumnGuiImpl.LABEL_OFFSET_RIGHT + BrowseColumnGuiImpl.LABEL_OFFSET_LEFT); int t = x - 1; x = (t > 0) ? t : 0;
```

To something less cryptic:

```
x -= (BrowseColumnGuiImpl.LABEL_OFFSET_RIGHT + BrowseColumnGuiImpl.LABEL_OFFSET_LEFT + 1);
if (x < 0)
{
    x = 0;
}</pre>
```

But I can't say whether the code is functionally correct.

# #17 - 12/22/2017 04:52 AM - Sergey Ivanovskiy

Yes. Agree, committed rev 11301.

# #18 - 12/22/2017 07:09 AM - Greg Shah

If Stanislav is OK with these changes, then we are good to go.

# #19 - 12/22/2017 07:10 AM - Stanislav Lomany

I'm not good, wait a bit.

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# #20 - 12/22/2017 07:43 AM - Stanislav Lomany

- File 95-97.png added

It is not clear if actual P2J version (rev 11295) has issues with clipping (please use fonts without anti-aliasing for testing), however it is clear that rev 11297 has. Also note that rev 11297 has wrong column widths.

check positioning and clipping for swing/web, different themes, first/last/middle/last locked columns, label/cell text, left/right aligned text.

I mean it.

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#### Testcase:

```
DEF TEMP-TABLE tt FIELD f1 AS INTEGER column-label "WWWWWW"

FIELD f2 AS character format "x(20)" column-label "WWWWWW"

FIELD f3 AS character index idx f1.
```

def var i as integer. def var str as char.

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```
repeat i = 1 to 20:
  CREATE tt. tt.f1 = i.
  tt.f2 = "second" + string(i).
  tt.f3 = "third " + string(i).
end.
release tt.
def buffer xtt for tt.
DEFINE QUERY q FOR tt SCROLLING.
OPEN QUERY q FOR EACH tt.
DEF BROWSE br QUERY q
DISPLAY
    tt.fl width 5
    tt.f2 width 5
    tt.f3
WITH 12 down TITLE "Static browse" separators.
DEF FRAME fr br SKIP(1) str
 WITH TITLE "Frame" SIZE 70 BY 15 NO-LABELS.
enable br with frame fr.
WAIT-FOR WINDOW-CLOSE OF DEFAULT-WINDOW.
```

## #21 - 12/22/2017 08:01 AM - Sergey Ivanovskiy

Stanislav Lomany wrote:

It is not clear if actual P2J version (rev 11295) has issues with clipping (please use fonts without anti-aliasing for testing), however it is clear that rev 11297 has. Also note that rev 11297 has wrong column widths.

Stanislav, please describe font settings thoroughly, what are fonts without anti-aliasing? Is it true that P2J rev 11295 has correct column widths for the test you provided?

Did you run your test and make a screen shot for the Web client or the Swing client?

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# #22 - 12/22/2017 08:03 AM - Sergey Ivanovskiy

Did you build a font-metrics file for the strings from your test?

## #23 - 12/22/2017 08:12 AM - Sergey Ivanovskiy

The rev.11297, 11301 don't make changes for column widths. It is supposed that they are calculated correctly.

## #24 - 12/22/2017 08:22 AM - Stanislav Lomany

Stanislav, please describe font settings thoroughly, what are fonts without anti-aliasing?

I don't know, but the browse title ("Static browse") has one without anti-aliasing.

Is it true that P2J rev 11295 has correct column widths for the test you provided?

They match on the screenshot.

Did you run your test and make a screen shot for the Web client or the Swing client?

Swing.

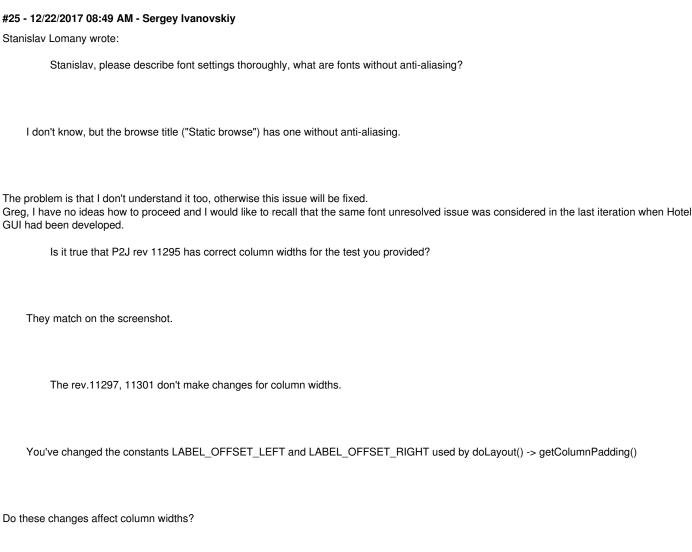
Did you build a font-metrics file for the strings from your test?

No.

The rev.11297, 11301 don't make changes for column widths.

 $You've\ changed\ the\ constants\ LABEL\_OFFSET\_LEFT\ and\ LABEL\_OFFSET\_RIGHT\ used\ by\ doLayout()\ ->\ getColumnPadding()\ -$ 

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## #26 - 12/22/2017 09:07 AM - Sergey Ivanovskiy

Is this code from BrowseGuilmpl.doLayout() correct?

## #27 - 12/22/2017 09:09 AM - Greg Shah

Stanislav: Please take this task. Please remove the changes for 11296/11297 such that it won't cause regressions. If you would do this quickly, we are trying to get 3394a into the trunk.

Constantin: It seems this is important to put into 3394a ASAP.

Sergey: You can move to other tasks.

## #28 - 12/22/2017 09:13 AM - Constantin Asofiei

Greg Shah wrote:

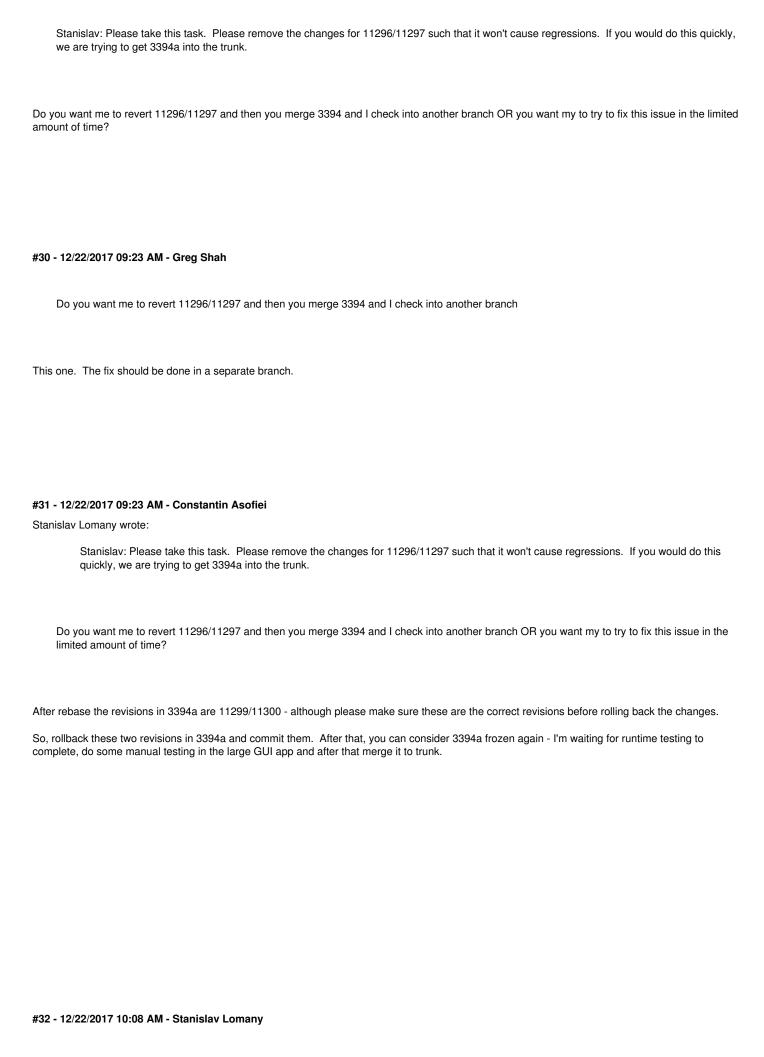
Stanislav: Please take this task. Please remove the changes for 11296/11297 such that it won't cause regressions. If you would do this quickly, we are trying to get 3394a into the trunk.

Constantin: It seems this is important to put into 3394a ASAP.

I'm OK with this.

#29 - 12/22/2017 09:21 AM - Stanislav Lomany

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So, rollback these two revisions in 3394a and commit them.

Done.

## #33 - 12/23/2017 04:24 AM - Stanislav Lomany

- Assignee set to Stanislav Lomany

## #34 - 01/05/2018 10:36 AM - Stanislav Lomany

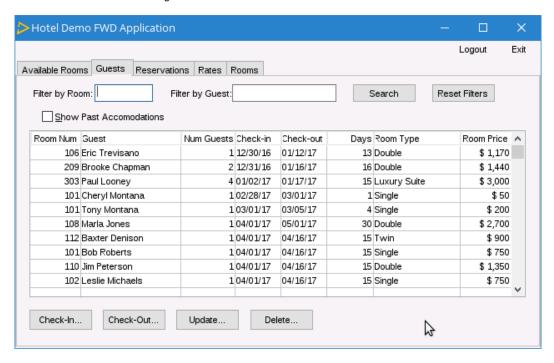
- Status changed from New to WIP

I do not see the issue in the hotel app either Swing or web using the current trunk. Please confirm.

## #35 - 01/05/2018 11:38 AM - Greg Shah

- File 3435a\_browse\_header\_text\_positioning\_issue\_20180105.png added

I still see the issue. This is using the latest 3435a:



If you see something different, I wonder if the issue is related to the fonts in use. I'm using the default (no overrides in deploy/server/fonts/.

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## #36 - 01/12/2018 05:54 AM - Stanislav Lomany

FYI.

To draw a columns separator we should decide to which column it belongs. In original design a column contained its *left* separator, however when we switched to UI themes, a column began to contain its *right* separator instead.

There is 4GL quirk when then right border of the locked panel is not fully drawn and you can see 1px of the underlying scrolling panel which makes me think that the original design was correct (but technically it does not state it 100%). Other that this case I'm not aware of other cases which tell which design is correct, so I'm leaving everything as is.

## #37 - 01/17/2018 04:40 PM - Greg Shah

What is the status of this task?

## #38 - 01/17/2018 04:51 PM - Stanislav Lomany

Just finished, going to update the branch and check for regressions in AW.

#### #39 - 01/18/2018 09:22 AM - Stanislav Lomany

The fix is committed into the branch 3435a rev 11256.

#### #40 - 01/18/2018 09:23 AM - Stanislav Lomany

- Status changed from WIP to Review

## #41 - 01/18/2018 01:10 PM - Greg Shah

Code Review Task Branch 3435a Revision 11256

I'm fine with the changes.

## #42 - 02/05/2018 11:15 AM - Greg Shah

- % Done changed from 0 to 100
- Subject changed from The texts are drawn 1-pixel to the left, cutting the text to text is drawn 1-pixel to the left, cutting the text
- Status changed from Review to Closed
- Start date deleted (12/19/2017)

Branch 3435a was merged to trunk as revision 11217.

#### **Files**

SwingAndWebTextInBrowser.png	240 KB	12/19/2017	Sergey Ivanovskiy
TextInBrowser.png	13.9 KB	12/19/2017	Sergey Ivanovskiy
95-97.png	29.9 KB	12/22/2017	Stanislav Lomany
3435a_browse_header_text_positioning_issue_20180105.png	28.2 KB	01/05/2018	Greg Shah

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