

Gantt bars for single-day tasks may be rendered wrongly in PDF

2022/05/09 18:04 - Admin Redmine

ステータス:	Closed	開始日:	2022/05/09
優先度:	通常	期日:	
担当者:		進捗率:	0%
カテゴリ:	Gantt_34	予定工数:	0.00時間
対象バージョン:	4.0.7_159	作業時間:	0.00時間
Redmineorg_URL:	https://www.redmine.org/issues/23645	status_id:	5
category_id:	34	tracker_id:	1
version_id:	159	plus1:	0
issue_org_id:	23645	affected_version:	
author_id:	48958	closed_on:	
assigned_to_id:	332	affected_version_id:	
comments:	8		

説明

When a task starts and ends on the same day, it can happen that the bar in the PDF is rendered wrong, i.e. it's rendered from the start day to the right end of the page.

The problem is in `@lib/redmine/helpers/gantt.rb@`. When `@#pdf_task@` is called, `@coords[:bar_end] - coords[:bar_start]@` happens to be 0. The cause for this is the zoom factor applied in `@#coordindates@` and the subsequent `@#floor@`. By adding some `@Rails.logger@` statements I got this:

```
coords[start]: 92/1, zoom: 36/73
coords[start]: 45
coords[bar_start]: 92/1, zoom: 36/73
coords[bar_start]: 45
coords[end]: 92/1, zoom: 36/73
coords[end]: 45
coords[bar_end]: 93/1, zoom: 36/73
coords[bar_end]: 45
```

Each value shown before/after applying zoom. While before zoom, the values were 92/93, they became 45/45 afterwards.

The attached patch fixes the PDF rendering problem by making sure, the width used in the `@RDMCell()@` call is at least 0.

journals

LGTM. I hope for early adoption.

I have not been able to reproduce the problem yet.

Could you please describe the detailed steps to reproduce the problem and upload screenshots (before fix and after fix) ?

Sorry, I have no easy reproducer. I used a dump of our productive DB while working on the fix...

Attached is a screenshot with comparing the Gantt rendered correctly as PNG and incorrectly as PDF. After the fix, the PDF looks correct too (no screenshot taken).

Tasks 3-7 shown on the screenshot are single-day tasks and should all render the same.

!pdf-vs-png.png!

Daniel Ritz wrote:

When a task starts and ends on the same day, it can happen that the bar in the PDF is rendered wrong, i.e. it's rendered from

the start day to the right end of the page.

I have confirmed.

If you set a huge value to the Gantt display months, all Gantt bars for issues with the extremely short the start date and due date will appear in the PDF this way.

!{width:600px;border:1px solid #ccc;}set-huge-months.png!

!{width:600px;border:1px solid #ccc;}actual-pdf.png!

The attached patch fixes the PDF rendering problem by making sure, the with used in the @RDMCell()@ call is at least 0.

I think "gantt-single-day-task-pdf-rendering.patch":

<https://www.redmine.org/attachments/download/16573/gantt-single-day-task-pdf-rendering.patch> should be incorporated. This problem will be solved.

Setting the target version to 4.0.7.

Committed the patch. Thank you for your contribution.

related_issues

duplicates,Closed,32916,Bar length is wrong when exporting gantt chart to PDF

履歴

#1 - 2022/05/10 17:06 - Admin Redmine

- カテゴリ を Gantt_34 にセット

- 対象バージョン を 4.0.7_159 にセット