

Redmine - Patch #42762

Improve Git/Mercurial revision graph on the repository page

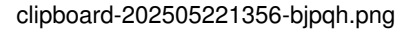
2025-05-22 13:16 - Leonid Murin

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	SCM	Estimated time:	0.00 hour
Target version:			

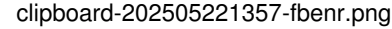
Description

There are several issues with the revision graph on the repository page:

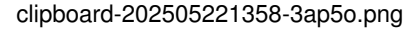
1. When multiple branches point to the same set of commits, the revision graph canvas unnecessarily expands in width.



2. If branch "A" points to an older commit and branch "B" points to a newer commit, the newer section of the revision graph shifts to the right.



3. Orphan commits on the page (for example, when the head was on a previous page) are always shown in the first column.



clipboard-202505221358-tb4dl.png

4. The curves connecting commits on different branches make it hard to identify which commits are connected, especially when several commits exist between the connected ones on the branches ([#10954](#)).

clipboard-202505221359-e75ot.png

This patch series resolves these issues by modifying commit indexing and the curves on the graph:

- Heads are no longer indexed if the referenced commit has already been visited, addressing issue 1.

clipboard-202505221402-dsraj.png

- Indexing always starts with the latest commit on the page, followed by the heads present on the page, and finally the orphan commits on the page, fixing issues 2 and 3.

clipboard-202505221403-votpv.png

clipboard-202505221403-btebg.png

- The new curves connect from the left or right side to commits that already have vertical connections, and from the top or bottom to the last or first commit on a branch, respectively.

clipboard-202505221403-qnn56.png
Parent commit for patch series - 41d1057 from GitHub mirror.

Files			
clipboard-202505221356-bjpqh.png	5.36 KB	2025-05-22	Leonid Murin
clipboard-202505221357-fbenr.png	14.2 KB	2025-05-22	Leonid Murin
clipboard-202505221358-3ap5o.png	126 KB	2025-05-22	Leonid Murin
clipboard-202505221358-tb4dl.png	58.2 KB	2025-05-22	Leonid Murin
clipboard-202505221359-e75ot.png	45.3 KB	2025-05-22	Leonid Murin
clipboard-202505221402-dsraj.png	4.65 KB	2025-05-22	Leonid Murin
clipboard-202505221403-votpv.png	11.3 KB	2025-05-22	Leonid Murin
clipboard-202505221403-btebg.png	127 KB	2025-05-22	Leonid Murin
clipboard-202505221403-qnn56.png	38.9 KB	2025-05-22	Leonid Murin
v1_01_fix_revision_graph.patch	7.88 KB	2025-05-22	Leonid Murin