

Suggestion: GitFlow for bug fixes

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ROOT

Data Analysis Framework

<https://root.cern>

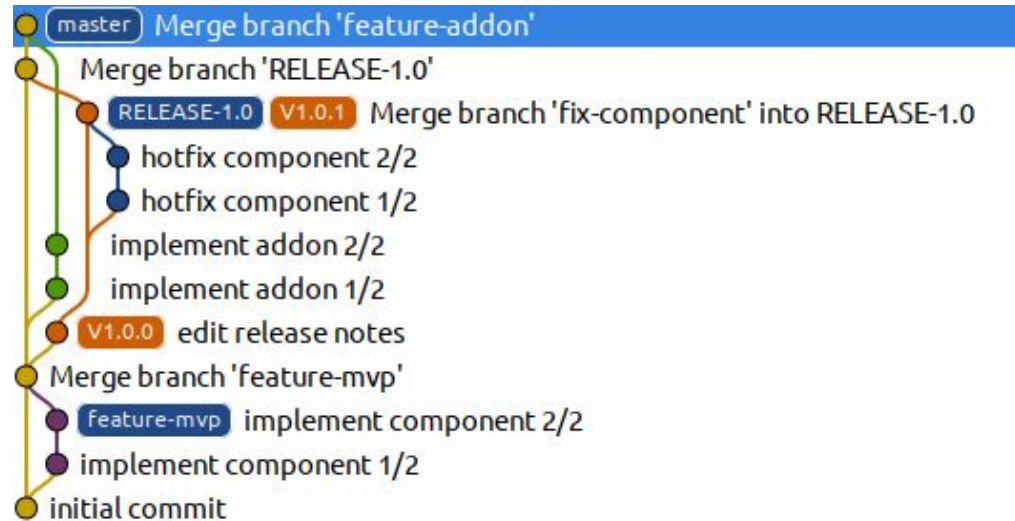
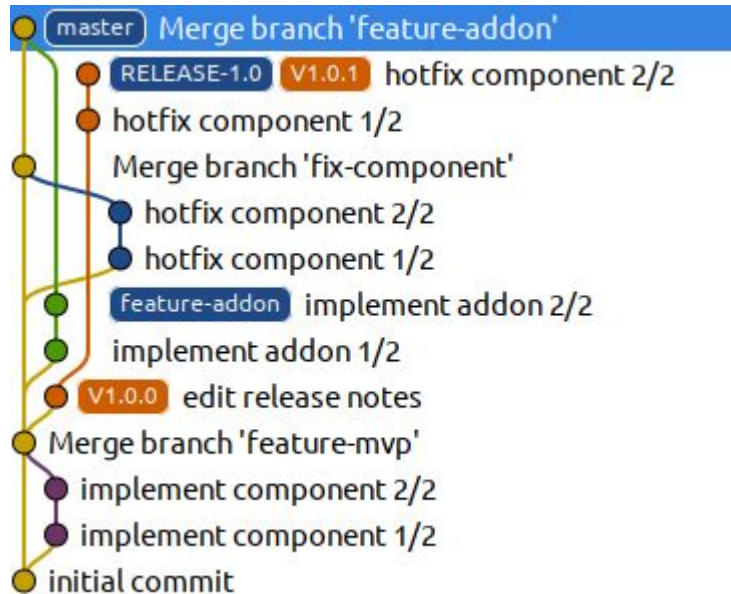


- ▶ My understanding of current situation:
 - all developments happen against master branch
 - In feature and bug fix branches
 - bugfixes get cherry-picked commit by commit into release branches

- ▶ Suggested Alternative: fix bugs in oldest release branch
 - Merge-up all bug fixes every now and then in one go into master branch
 - No backporting, keep commit flow from oldest to newest branch



Workflow Comparison



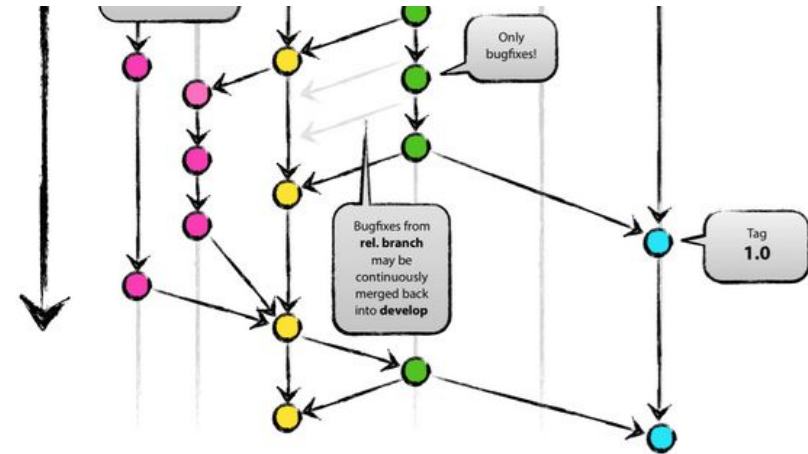
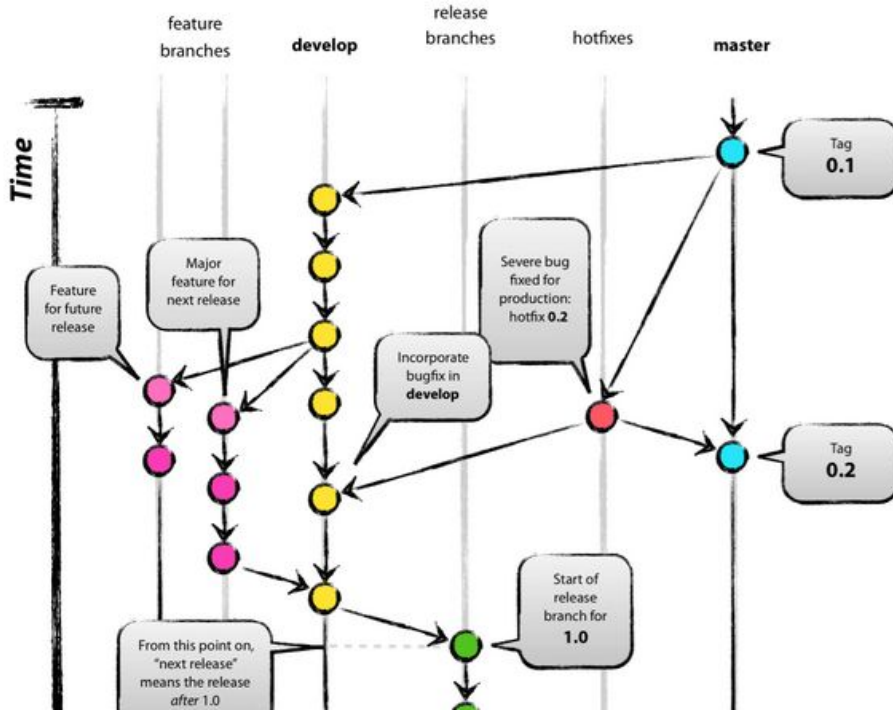


▶ GitFlow model

- All fix commits get handled with a single merge command, no commits are forgotten
 - Order of commits automatically taken care of
 - Conflicts need to be resolved only once
 - Clear separation between fix and feature (perhaps both pro and con)
 - **But:** pull requests need to be opened against oldest target release branch (cherry-picking still possible in case of mistakes)
- ▶ For CVMFS, we successfully moved from cherry-picking to merging from release branch into devel branch
→ much smoother bug fix handling



GitFlow: Full Picture



<https://datasift.github.io/gitflow/IntroducingGitFlow.html>