
Subject: Re: GIT essentials

Posted by [kohait00](#) on Tue, 12 Jan 2010 10:36:47 GMT

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the basic question is indeed, as someone above mentioned: does it matter to migrate *right now*? the workflow seems to be alright for now, but could significantly change in future.

it's really the question of workflow models, so far nobody can imagine a truly practicable solution. maybe it's due to the fact that git *is* different from svn, it stores repo/history locally and completely (if you clone, or partially if you pull). as far as everyone can pull from anywhere, there is a different user handling model.

now, as far as i understand, there is almost the dictator/leutnant model, using svn. mirek being master committer, having some trustees, who also have commit rights, but use them with care (paying head and pants to mirek if things go wrong), so this is bit of security issue. people contributing and lacking commit rights do this by supplying test projects in forum, or like me most times, just some lines in plain text with the file:line pattern so mirek needs to sit down, search the file, *think*, change the line and commit. he is actually a busy master/dictator.

with git this could go just as before, but somehow ease it for mirek. he could have his own git repo, the "MAIN" repo, creating releases from, often times referred as the "blessed repository", publically readable, but commit rights only for mirek.

his lieutenants, just as the rest of the world, keep synced with the blessed repo, always pulling from it (as the origin repo, in git terms).

the lieutenants are just helpers in u++ case, and either have an own and somehow accessible repo for mirek, where *he* can pull from in his branches, and then he can merge. or it would be easier for now, if they also had commit rights to the blessed repo as well, so this would be just the same situation as before with svn.

he would mainly benefit from the easiness of branch merging with git.

when we expect u++ users to supply patches, just as in kernel issues, this would be too much. they are not that experienced, and neither that engaged with u++. so even the workflow with forum bugfix posting and contributions would go on for quite a while just the same, as long as we don't provide some better means for contributions, i.e. a howto setup own public git repo, where an engaged contributor can commit his changes and mirek pull from.

so it's mainly an ideologic decision for now, it *would* have some benefits, but they are not that extra-weighted as to justify a migration to git. i personally would still prefer git, for even more but presently for u++ unimportant reasons. maybe just one still to mention: it seems not to be that much fixed in structure, is really flexible, where every developer is responsible for itself. this is not the case with svn, where 'anyone' can pollute the repo.

attached is a one popular model of how things are driven, bold arrows is commit, other is pull. all are repos, either private on working machine or public on github or gitorious.

if we really want mirek to be convinced, we need to more clearly elaborate a better workflow model, though. so far, he'd understandably not see the need to migrate.

File Attachments

1) [gitmodel.JPG](#), downloaded 1126 times

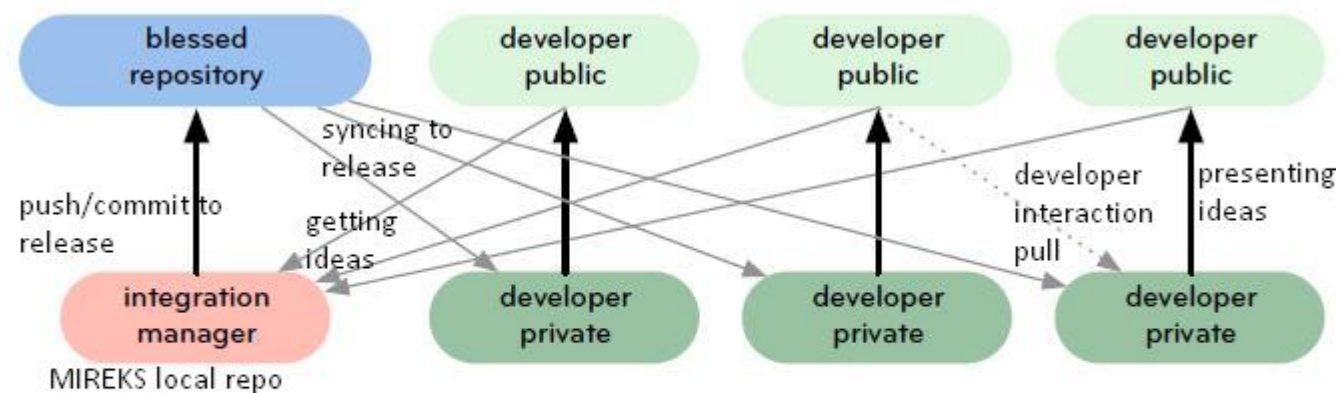


FIG. M **Private and public repositories** driven by read-only pull requests

This is largely how community-based git repositories like GitHub were built to work and how many smaller open source projects operate.