

- [Home](#)
- [Developers](#)
- [How To](#)
- [Git](#)
- Bug fixes

Fix bugs in devel and release

Goal: Maintainers will have to fix bugs from time to time, and make sure the patch is available both in the master branch (svn devel) and the current release branch.

Steps:

1. [Sync existing repositories](#).

```
git fetch --all
git checkout master
git merge upstream/master
git merge origin/master
git checkout <RELEASE_X_Y>
git merge upstream/<RELEASE_X_Y>
git merge origin/<RELEASE_X_Y>
```

2. On your local machine, be sure that you are on the master branch.

```
git checkout master
```

Make the changes you need to fix your bug. Add the modified files to the commit. Remember to edit the DESCRIPTION file to update the version number, and ensure that **only bug-fix changes** are introduced in the commit.

```
git add <files changed>
## after version bump
git add DESCRIPTION
```

Commit the modified files. It is helpful to tag the commit as bug fix.

```
git commit -m "bug fix: my bug fix"
```

3. (Alternative) If the changes are non-trivial, create a new branch where you can easily abandon any false starts. Merge the final version onto master

```
git checkout master
git checkout -b bugfix-my-bug
## add and commit to this branch. When the bug fix is complete...
git checkout master
git merge bugfix-my-bug
```

4. Switch to the release branch and cherry-pick the commits from master corresponding to the bug fix, e.g., reference the most recent commit on the master branch with master; see examples in `git cherry-pick --help`. Remember to edit the DESCRIPTION file to update the release version according to *Bioconductor's* [version numbering scheme](#).

```
git checkout <RELEASE_X_Y>
git cherry-pick master
## Fix version bump by editing 'Version:' field of DESCRIPTION, then
git add DESCRIPTION
git commit -m "update RELEASE version number"
```

NOTE: If you are patching your release for the first time, you have to make a local copy of the RELEASE_X_Y branch, by

```
git checkout -b <RELEASE_X_Y> upstream/<RELEASE_X_Y>
```

Following this one time local checkout, you may switch between RELEASE_X_Y and master with `git checkout <RELEASE_X_Y>`. If you do not use the command to get a local copy of the release branch, you will get the message,

```
(HEAD detached from origin/RELEASE_X_Y)
```

5. Push your changes to both the GitHub and *Bioconductor* master and <RELEASE_X_Y> branches. Make sure you are on the correct branch on your local machine.

For the master branch,

```
git checkout master
git push upstream master
git push origin master
```

For the release branch,

```
git checkout <RELEASE_X_Y>
git push upstream <RELEASE_X_Y>
git push origin <RELEASE_X_Y>
```



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 - [Update Bioconductor Packages](#)
- - [Help](#)
 - [Workflows](#)
 - [Package Vignettes](#)
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 - [Using R](#)
 - [Courses](#)
 - [Publications](#)
 - [Cloud AMI](#)
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- - [Developers](#)
 - [Package Guidelines](#)
 - [Package Submission](#)
 - [Release Schedule](#)
 - [Source Control](#)
- - [About](#)
 - [Advisory Board](#)
 - [Annual Reports](#)
 - [Core Team](#)
 - [Mirrors](#)
 - [Related Projects](#)



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- [Home](#)
- [Install](#)
- [Help](#)
- [Developers](#)
- [About](#)