

# Version control

*Development work should not be done directly on a master or release branch.*

This will allow more fine grained control of what bugs make it into a particular release. Instead each bug should be fixed within its own branch. Name the branch after the open JIRA ticket so there is a relationship between the two.

## Creating a bug fix branch

### Create new branch

```
git checkout -b bugfix/vov-xxxx
```

Completed bugs should include fixes as well as good test coverage that documents the problem. This will prevent the same thing from coming up again after code rewrites / feature changes. Once you are done push your commits to your branch.

### Committing changes

```
git push origin bugfix/vov-xxxx
```

## Merging bug fixes

Once a bug fix is ready to be tested by team members it needs to be merged into the current release. This should be done by issuing a [pull request](#) from the same repository. For help on how to do so check [Github's documentation](#).

The screenshot shows the GitHub interface for creating a pull request. At the top, it identifies the repository as 'PUBLIC avalonmediasystem / avalon'. Below this, there are two dropdown menus for repository selection, both set to 'base repo: avalonmediasystem/avalon' and 'head repo: avalonmediasystem/avalon'. Underneath, the 'base branch' is set to 'release/1.0.0' and the 'head branch' is 'bugfix/vov-1343'. A navigation bar includes 'New Pull Request', 'Commits 1', and 'Files Changed 1'. The main content area has a title 'Change location of colon' and a 'Write' tab selected. A text area for comments is present with the placeholder 'Leave a comment'. At the bottom right of the comment area, there is a 'Send pull request' button.

Discussion   Commits 1   Files Changed 1

**cjoolvar** opened this pull request an hour ago Edit

**VOV-1370: don't display summary if there isn't one**

No one is assigned   No milestone

No description given.

2 participants

**cjoolvar** added a commit an hour ago

**cjoolvar** VOV-1370: don't display summary if there isn't one [60eba6c](#)

**mbklein** referenced this pull request from a commit 38 minutes ago

**mbklein** Merge pull request #30 from avalonmediasystem/bugfix/vov-1370 [4e249b5](#)

**Merged** **mbklein** merged commit 4e249b5 into `release/1.0.0` from `bugfix/vov-1370` 38 minutes ago

**Closed** **mbklein** closed the pull request 38 minutes ago

Pull request merged — the `bugfix/vov-1370` branch can be deleted safely. Delete this branch

The release manager will be responsible for merging the pull request into the current release branch (in this case `release/1.0.0`).

## Institutional specific forks

In addition to the generic [avalon](#) repository there are localized forks for both [Northwestern](#) and [Indiana University](#) specific updates. In case the patches apply only to one of these follow the instructions above but replace references to `avalonmediasystem/avalon` with the appropriate repository. Both should be synced nightly with the main branch to capture any upstream changes. To manage this on your local machine follow these instructions provided by [Evan Pro](#).

```
git remote add upstream git://github.com/avalonmediasystem/avalon.git
```

This will add a upstream repository that can be referenced whenever you want to merge changes into the local branch.

```
git fetch upstream
git rebase upstream/release/1.0.0
git push origin release/1.0.0
```