

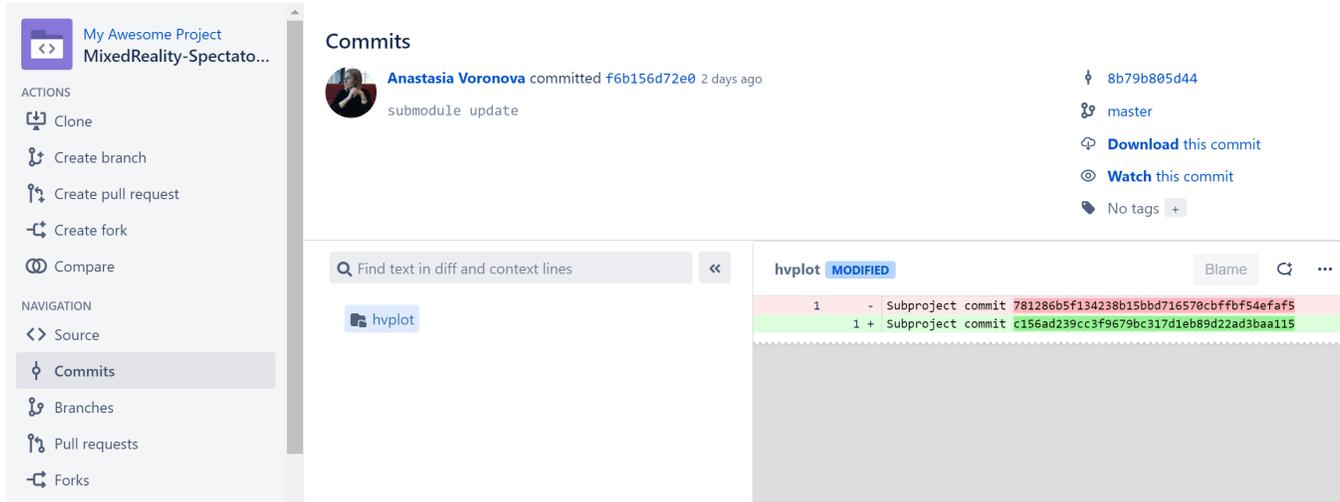
Submodule Changes for Bitbucket

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What is this add-on for?

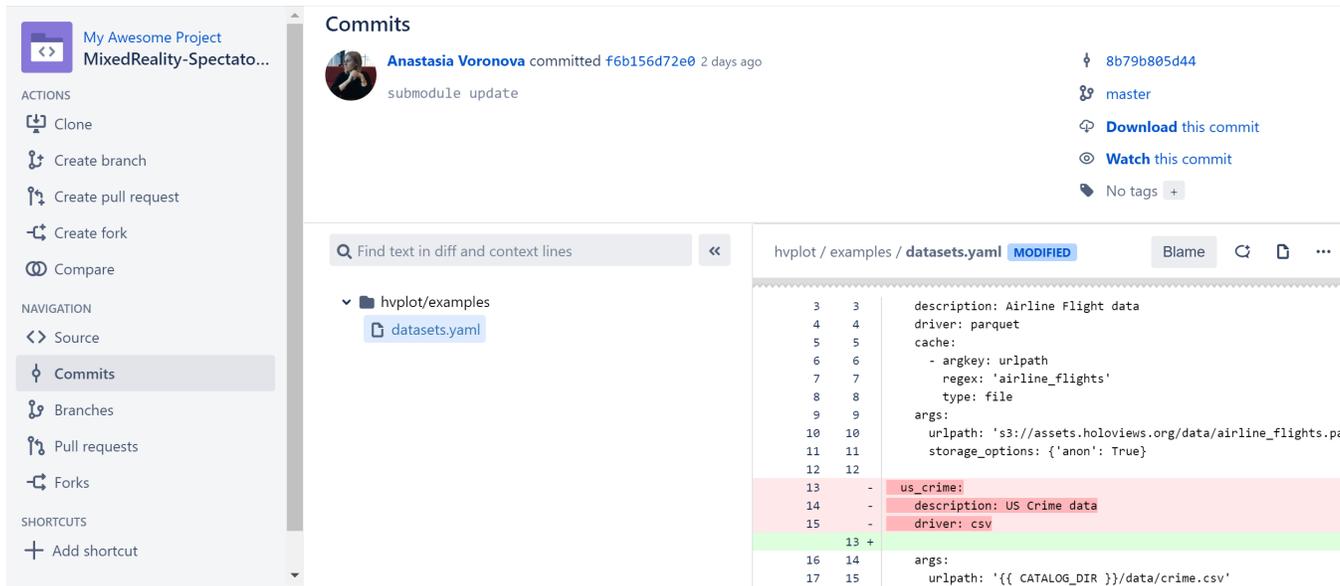
Submodule Changes for Bitbucket helps visualize modified lines of code in commits and pull requests for repositories with submodules.

While working with Git submodules, there's a common problem with showing changes that are made to the submodule in the **Diff** tab. It displays two commit hashes instead of actually modified files and LOC. It's especially inconvenient when it comes to reviewing pull requests.



The screenshot shows the Bitbucket interface for a repository named "My Awesome Project". The left sidebar contains navigation options like "Clone", "Create branch", "Create pull request", "Compare", "Commits", "Branches", "Pull requests", and "Forks". The main content area displays a commit by "Anastasia Voronova" with the message "submodule update". The diff view for the "hvplot" submodule shows two commit hashes: "781286b5f134238b15bbd716579cbffbf54efaf5" (removed) and "c156ad239cc3f9679bc317d1eb89d22ad3baa115" (added). The interface includes a search bar for finding text in the diff and context lines, and buttons for "Blame", "Download this commit", and "Watch this commit".

Submodule Changes for Bitbucket app helps watch changes committed to a submodule in a standard Bitbucket **Diff** view as if they're committed to the super-repository. It also gives an ability to watch **Blame**, leave comments for more convenient pull requests review.



The screenshot shows the Bitbucket interface for a repository named "My Awesome Project". The left sidebar contains navigation options like "Clone", "Create branch", "Create pull request", "Compare", "Commits", "Branches", "Pull requests", and "Forks". The main content area displays a commit by "Anastasia Voronova" with the message "submodule update". The diff view for the "hvplot / examples / datasets.yaml" file shows line-by-line changes. The diff view includes a search bar for finding text in the diff and context lines, and buttons for "Blame", "Download this commit", and "Watch this commit".

Submodule Changes for Bitbucket also gives an ability to watch **Blame**, leave **comments** on the entire pull request, a particular file, or on specific lines of code in a file for more convenient pull requests review.

added team feature

Overview **Diff** Commits

Show diff of <<

All changes in this pull request

Files

- hvplot
 - conda.recipe
 - meta.yaml
 - hvplot
 - networkx.py

```
hvplot / hvplot / networkx.py | Blame | ⌂ | ↺ | 📄 | ⋮
```

MODIFIED

1	1	from collections import defaultdict
2	2	
3	3	import numpy as np
4	4	import networkx as nx
5	5	import holoviews as _hv
6	6	
7	-	from bokeh.models import HoverTool

Look! Now i can watch leave comments on a pull request with submodule update. Awesome 😄

Edit

There are several exceptions when the app doesn't show changes committed to a submodule:

- When a submodule is placed not in the current Bitbucket instance
- When a submodule is just added or deleted in shown changes
- When there is a submodule conflict

Submodule Changes for Bitbucket includes a merge check **Submodules fast-forward merge** to ensure that all submodules can be merged to the default branch in fast-forward mode. If we didn't merge the submodule before merging the super-repository, we'd be able to do it afterward in fast-forward mode, and the link to the submodule will remain unchanged.

Merge-check must first be enabled in the project or repository settings.

Merge check restrictions:

- Merge check is performed only at the first level of a submodule, and nested submodules will not be checked
- Merge check only works for submodules hosted in Bitbucket it's been enabled in
- Merge check may skip submodules that are a part of truncated changes when the changes list is too big to be shown

How to install and configure the app?

To install **Submodule Changes for Bitbucket**, log into your Bitbucket Server as Administrator and install **Submodule Changes for Bitbucket** [directly from Atlassian Marketplace](#) or by [file upload](#).

The app doesn't require any configuration. Once installed, the changes apply to the Diff tab for commits and pull requests with updates to a submodule.

How to turn off the app for a certain submodule?

In some cases, the number of changes in a pull request with a submodule can exceed the [page.max.changes limit](#). For instance, when a dependency on some large project is used as a submodule. That resulted in an incomplete displaying of changes in the pull request diff view.

To disable the **Submodule Changes for Bitbucket** app for a specific submodule in a repository, you need to add a special property in the **.gitmodules** file using the following Git command:

```
git config --file .gitmodules submodule.<name>.ignoreChanges true
```

In this command, **<name>** is the submodule name specified in the **[submodule "<name>"]** section of the **.gitmodules** file. The changes will be applied after you commit and push them.

Ex.: if you have a submodule named "library", the **.gitmodules** file will be the following:

```
[submodule "library"]
path = library
url = https://bitbucket.company.com/scm/sm/library.git
```

In this case, your command that will turn off the app for this submodule will be:

```
git config --file .gitmodules submodule.library.ignoreChanges true
```

As a result, the .gitmodules file will change like this:

```
[submodule "library"]
path = library
url = https://bitbucket.company.com/scm/sm/library.git
ignoreChanges = true
```