

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 shows the following changes:

```
1 - Subproject commit 781286b5f134238b15bbd716579cbffbf54efaf5
1 + Subproject commit c156ad239cc3f9679bc317d1eb89d22ad3baa115
```

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 shows the following changes in the file "datasets.yaml":

```
3 3 description: Airline Flight data
4 4 driver: parquet
5 5 cache:
6 6   - argkey: urlpath
7 7     regex: 'airline_flights'
8 8   type: file
9 9 args:
10 10 urlpath: 's3://assets.holoviews.org/data/airline_flights.pa
11 11 storage_options: {'anon': True}
12 12
13 - us_crime:
14 - description: US Crime data
15 - driver: csv
13 +
16 14 args:
17 15 urlpath: '{{ CATALOG_DIR }}/data/crime.csv'
```

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

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
```