











You might want to see the specific changes that someone made to the files in a commit. In Cloud Source Repositories, you can view these changes by using the Files Changed section of the Commit Details view.

FILES (5)		Change Summary	EXPAND ALL
Type	Path		
	third_party/ijar/mapped_file.h	 -0, 3, +0	▼
	third_party/ijar/mapped_file_unix.cc	 -0, 4, +0	▼
	third_party/ijar/mapped_file_windows.cc	 -0, 2, +0	▼
	third_party/ijar/zip.cc	 -0, 10, +0	▼
	third_party/ijar/zip.h	 -0, 1, +0	▼

You can access the Commit Details view in the following ways:

- From the Change History panel
- From the Commit link

Both options are available when you open a file or folder in Cloud Source Repositories.

1. In the Google Cloud Console, open Cloud Source Repositories.

[Open Cloud Source Repositories \(https://source.cloud.google.com/repos\)](https://source.cloud.google.com/repos)

The **All repositories** page opens. Alternatively, you can open the **My source** (/source-repositories/docs/browsing-repositories#browsing_to_a_repository) view.

2. Click a repository.

The **Repository Root** page opens.

3. In the **Files** list, browse to the file you want to view, and then click it.

4. In the adjacent pane, click **Change history**.

In the pane that is displayed, each row shows the hash ID for that commit formatted as a hyperlink.

5. Click the hash ID link.

The [Commit Details](/source-repositories/docs/commit-details-overview) view opens.

You can also open the Commit Details view by clicking the Commit link.

If you're viewing the latest version of the file for that branch, the Commit Information link displays the name of the branch, along with the hash of latest commit.

Branch: master ([e63512e](#))

If you're looking at a previous version of a file or folder, the Commit Information link displays the hash of the commit.


Commit: [e63512e](#)

If you're looking at a particular tag, the Commit Information link displays the hash associated with the tag.

Tag: 0.2.1 ([447f7f3](#))

In all of these cases, click the hash of the commit to open the Commit Details view.

You can use the Commit Details view to see which lines were changed in each file. To view which lines changed in a file, follow these steps.

1. [Access the Commit Details](#) (#accessing_the_commit_details_view) view for a specific commit.
2. Locate the file you want to view, and then click the down arrow  to expand that row.

The Files Changed section expands to display the changes made in that file.

The screenshot shows a diff view for the file `tensorflow/g3doc/api_docs/python/functions_and_classes/shard4/tf.nn.depthwise_conv2d_native.md`. It compares two commits: `d2dbf0e` (left) and `383e252` (right). The code is shown in a split view. In the left panel, line 20 is highlighted in pink, indicating a change. In the right panel, line 20 is highlighted in green, indicating a change. The code includes a function signature `filter[di, dj, k, q]` and a docstring that reads: "Must have 'strides[0] = strides[3] = 1'. For the most common case of the same horizontal and vertical strides, 'strides = [1, stride, stride, 1]'". Below the docstring, there is a line `##### Args:`.

If you want to simultaneously view all changes to a file, click **Expand All** in the Files Changed section.

To learn more about the changes to a specific file, open the Diff view. This view provides a diff of the file against the previous commit. You can also select other commits to compare the file against.

To diff a file, follow these steps:

1. [Access the Commit Details \(#accessing_the_commit_details_view\)](#) view for a specific commit.
2. Click the path link for the file you want to view.

The Diff view opens. This view contains two panels. One panel displays the previous version of the file. The other panel displays the file as it existed at the time of the commit.

The screenshot shows the Diff view in Cloud Source Repositories. On the left, there is a file list for the repository `tensorflow` at commit `383e252`. The file path is `tensorflow/g3doc/api_docs/python/functions_and_classes/shard4/tf.nn.depthwise_conv2d_native.md`. The file list includes `shard4` and various TensorFlow API documentation files. The right panel shows the diff view for the selected file, comparing commit `d2dbf0e` (left) and `383e252` (right). The diff view shows the same code as the previous screenshot, with line 20 highlighted in pink in the left panel and green in the right panel. The code includes a function signature `filter[di, dj, k, q]` and a docstring that reads: "Must have 'strides[0] = strides[3] = 1'. For the most common case of the same horizontal and vertical strides, 'strides = [1, stride, stride, 1]'". Below the docstring, there is a line `##### Args:`.

Another way to learn about how your code has changed over time is to compare one commit to another.

To compare two commits, follow these steps:

1. [Access the Commit Details](#) (#accessing_the_commit_details_view) view for a specific commit.
2. Click **Compare**.

The Compare screen opens. This screen allows you to select two different commits. By default, this screen compares the commit you selected when you opened the Commit Details screen to its immediate [parent](#) (#navigating_to_a_parent_commit).

You can select different commits using the **Commit** and **To Parent** drop-down lists on the Breadcrumb.

Viewing the details of a specific commit can tell you a lot about what files were changed and why. You can get an even better understanding of your code's history by viewing the parent commit. A parent commit is a commit on which the current commit is based.

To access the parent commit, follow these steps:

1. [Access the Commit Details](#) (#accessing_the_commit_details_view) view for a specific commit.
2. Click the link next to the **Parent**.

Often, a given commit has only a single parent. But there are times when a commit has multiple parents. This happens when a commit is the result of a merge of two or more branches. If a commit has multiple parents, the Commit Details view provides a drop-down list that you can use to diff against, and navigate to, a specific parent.

