

# Resolving Conflicts

Depending on the type of your version control system, conflicts arise in different situations.

## Non-Distributed Version Control Systems

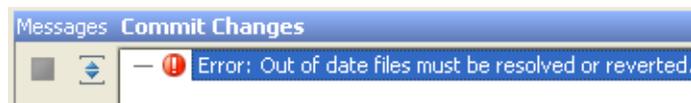
Working in a team, you might come across a situation, when somebody commits changes to a file you are currently working on. Conflicts can also arise on merging branches, applying patches or unshelving changes. If the changes are not overlapping, the files are merged automatically, but when there are changes to the same lines, you will need to resolve such conflict yourself.

When you try to edit a file that has a newer version on the server, IntelliJ IDEA informs you about that, showing a message pop-up window in the editor:

Outdated version. Modified by rayshade on 24.03.2009 15:33:18: New class added [Show Diff](#) [Update Project](#)

In this case you should update your local version prior to changing the file, or merge changes.

If you try to commit a file that has a newer repository version, an error is reported in the **Messages** tool window:



Depending on the behavior chosen from the **Create changelist on failed commit** drop-down list in the **Confirmation** page of the **Settings** dialog box, IntelliJ IDEA does one of the following:

- Creates a **Failed Commit** changelist, moves the conflicting files to it automatically, and highlights the names of the files red. This behavior takes place if the **Yes** option is chosen.



- Leaves the conflicting files in the changelist where they were but highlights them red. This behavior takes place if the **No** option is chosen.
- Displays a dialog box, where you can choose to move the conflicting files to a new changelist or leave them in the original one. In either case, the conflicting files will be highlighted red. This behavior takes place if the **Ask** option is chosen in the **Confirmation** page.

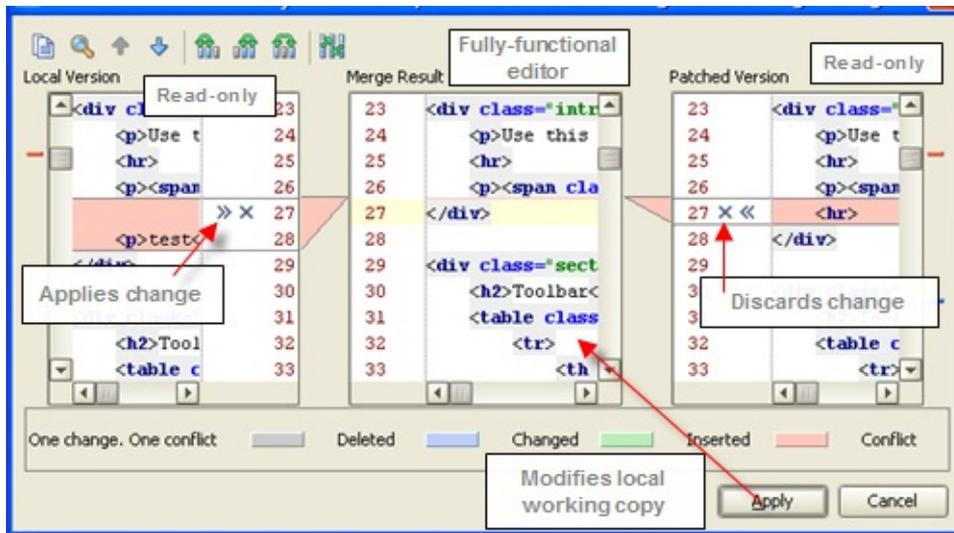
If you synchronize a file, that already has local changes, with a newer repository version, committed by somebody else, a conflict occurs. The conflicting file gets status *Merged with conflicts*. The file remains in the same changelist in the **Local** tab of the **Changes** tool window but its name is highlighted red. If the file is currently opened in the editor, the file name on the tab header is also highlighted red.

## Distributed Version Control Systems

Under Git, conflicts arise during [merge](#), [rebase](#), [cherry-pick](#), [unstash](#), or [apply patch](#).

## Conflict Resolution Tool

IntelliJ IDEA suggests a tool for resolving conflicts locally. This tool consists of three panes. The left pane shows the read-only local copy; the right pane shows the read-only version checked in to the repository. The central pane shows a fully-functional editor with the results of merging and conflict resolving. Initially, the contents of this pane is the same as the *base revision* of the file, that is, the revision from which both conflicting versions derived.



### To resolve conflicts, follow these general steps

1. Select the conflicting file in the **Changes, Update Version Control, or Project** tool window, or open it in the editor.
2. On the context menu, under the node of your VCS integration, choose the VCS-specific merge command.
3. Perform edit in the merge tool to apply or discard changes, as described in the procedures below.

### To apply or discard a change

1. In the left or right pane, select the change to be merged. Use arrow and/or find buttons on the toolbar to navigate to the desired location.
2. Accept or reject changes, clicking the *chevron* or *X* button respectively.
3. Click **Apply**.

### To apply all non-conflicting changes

- On the toolbar of the merge tool, click . It is useful to automatically accept any changes that are not in conflict, and spend your time working on conflicting changes.

### See Also

#### Procedures:

- [Handling Differences](#)
- [Resolving Conflicts with Perforce Integration](#)
- [Resolving Text Conflicts](#)

#### Reference:

- [Changelist Conflicts](#)
- [Local Tab](#)
- [Changes Tool Window](#)

#### Web Resources:

- [Developer Community](#) 