Applying Patches

Postponed changes, stored in a patch file, can be applied to the target file or directory later. If source code has been edited after creating the patch, conflicts can arise. IntelliJ IDEA suggests a handy way to resolve such conflicts and merge patch with the results of editing.

When a patch is opened, IntelliJ IDEA detects files with the same names as the names of the modified files. For each detected file, IntelliJ IDEA compares the paths to it relative to the base directory, with the path from the patch, and chooses the closest match. If no matching path is found, the file is considered located in the project base directory and highlighted red.

You can apply changes to the files stored in the other locations than those specified in the patch, by mapping an arbitrary directory as the base one, or stripping off the leading directories.

To apply a patch

1. On the main menu, choose **VCS | Apply patch**.

2. In the Apply Patch dialog box that opens, specify the fully qualified name of the patch file. Type the name manually in the **Patch file name** text box or click the **Browse** button ⬚ and locate the desired patch file using **Select Patch File** dialog box.

3. Configure the patch presentation layout. To have changes shown in a flat view, press the **Group by Directory** toolbar button ⬚ .
   Release the button to have changes shown in a directory tree view.

4. To have a change applied, select the check box next to it.

5. To have a change applied to a modified file that has been moved to another location, specify the new file location.

   - To map another base directory, select the desired file, directory, or a group files/directories and click the **Map base directory** toolbar button ⬚. In the dialog that opens choose the directory relative to which file names will be interpreted.

   - To remove leading directories from the path, click the **Strip Directory** toolbar button ⬚ as many times as many leading directories you need to strip. The number of removed slashes is indicated in square brackets.

   - To revert the last *strip directory* action, click the **Restore Directory** toolbar button ⬚. Click the button as many times as many previously stripped leading directories you need to restore.

   - To revert all the *strip directory* actions in the selection, click the **Reset Directories** toolbar button ⬚.

   - To have all the leading directories stripped and have the changes applied to the file with the specified name in the base directory, click the **Remove Directories** toolbar button ⬚.

6. To view the differences and possible conflicts between your local working copy, the repository version, and the patch in the Differences Viewer, select the desired change and click the **Show Differences** button ⬚.

7. To resolve conflicts between the patched and the current versions, if any, in both versions select the changes to be merged to the resulting file, and then click **Apply**.

See Also

Concepts:

- Patches

- Changelist

Procedures:

- Create Patch Dialog
- Resolving Conflicts

Reference:

- Apply Patch Dialog
- Version Control Reference

Web Resources:

- Developer Community