## Documentation

## The Java™ Tutorials

Trail: Essential Classes
Lesson: Basic I/O

Section: File I/O (Featuring NIO.2)

The Java Tutorials have been written for JDK 8. Examples and practices described in this page don't take advantage of improvements introduced in later releases.

## Moving a File or Directory

You can move a file or directory by using the move (Path, Path, CopyOption...) method. The move fails if the target file exists, unless the REPLACE\_EXISTING option is specified.

Empty directories can be moved. If the directory is not empty, the move is allowed when the directory can be moved without moving the contents of that directory. On UNIX systems, moving a directory within the same partition generally consists of renaming the directory. In that situation, this method works even when the directory contains files.

 $This \ method \ takes \ a \ varargs \ argument-the \ following \ {\tt StandardCopyOption} \ enums \ are \ supported:$ 

- REPLACE\_EXISTING Performs the move even when the target file already exists. If the target is a symbolic link, the symbolic link is replaced but what it points to is not affected.
- ATOMIC\_MOVE Performs the move as an atomic file operation. If the file system does not support an atomic move, an exception is thrown. With an ATOMIC\_MOVE you can move a file into a directory and be guaranteed that any process watching the directory accesses a complete file.

The following shows how to use the  ${\tt move}$  method:

```
import static java.nio.file.StandardCopyOption.*;
...
Files.move(source, target, REPLACE_EXISTING);
```

Though you can implement the move method on a single directory as shown, the method is most often used with the file tree recursion mechanism. For more information, see Walking the File Tree.

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