

I/O - Files Methods

delete files

deleteIfExists()

It throws a checked exception. Mind the IOException!

```
public static boolean deleteIfExists(Path path)
                                throws IOException
```

[delete](#)

delete()

It throws a checked exception. Mind the IOException!

```
Files.delete(path);
```

[delete](#)

Browsing files

[browsing](#)

list

It provides a simple and flat listing of the files and directories within the specified directory.

It throws a checked exception. Mind the IOException!

```
try (Stream<Path> stream = Files.list(tmp)) {...}
```

find

Mind the maxDepth parameter!

```
public static Stream<Path> find(Path start,
    int maxDepth,
    BiPredicate<Path, BasicFileAttributes> matcher,
    FileVisitOption... options)
```

walk

This method returns a Stream that is a recursive listing of all paths in the directory and its subdirectories. It traverses the directory tree recursively, including all levels of subdirectories.

```
public static Stream<Path> walk(Path start,
    FileVisitOption... options) throws IOException

public static Stream<Path> walk(Path start, int maxDepth,
    FileVisitOption... options) throws IOException
```

walk

createDirectories

```
var dir = Path.of("/flip");
dir = Files.createDirectories(dir);
```

Unlike the `createDirectory()` method, an exception is not thrown if the directory could not be created because it already exists.

It is `createDirectories()` and **NOT** `mkdir()`.

[createDirectories](#)

Read lines

[read lines](#)

readAllLines

Mind the `IOException` !

```
//this returns a list, everything is in memory
List<String> listOfLines = Files.readAllLines(path);
```

lines

Mind the IOException !

```
//this returns a Stream (not in memory)  
Stream<String> stream = Files.lines(pom)
```

isSameFile

IsSameFile

```
boolean result = Files.isSameFile(p1, p2);
```

The system might check if the files really exist if the `p1.equals(p2)` returns false.
If check is done and one of these two do not exist, after check:

```
Exception in thread "main" java.nio.file.NoSuchFileException: src/a
```

Mismatch

Finds and returns the position of the first mismatched byte in the content of two files,
or -1L if there is no mismatch.

```
public static long mismatch(Path path,  
    Path path2) throws IOException
```

```
Path hello = Path.of("/tmp/hello.txt");  
long mismatch = Files.mismatch(hello, hello); // -1
```

File Attributes

- BasicFileAttributes
 - BasicFileAttributeView
- [File Attributes](#)