



Curso Java Profesional



Manejo de archivos

Sitios de referencia



Manejo de archivos

- Primer mecanismo de persistencia**
- Guardar y recuperar datos o preferencias de usuario**
- Generación de reportes**

Java NIO2



Non-Blocking I/O





- ❖ Mejor organización de clases para el manejo de ficheros (Path, Files)
 - ❖ Mejor usabilidad para operaciones básicas (Crear, Eliminar, Mover, Copiar, ...)
 - ❖ Mejoras para recorrido de directorios, metadata de archivos y enlaces simbolicos

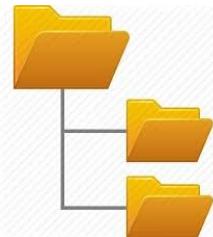


Sitios de referencia



Operaciones Básicas

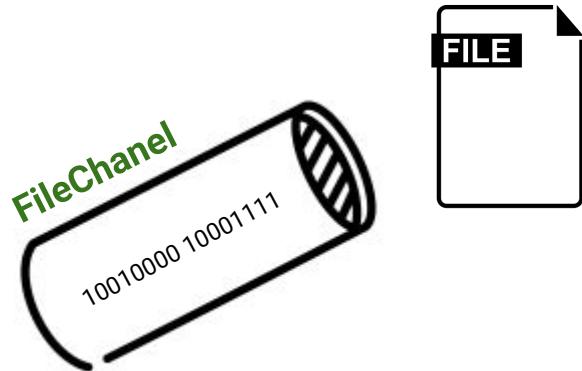
- ❖ Creacion
- ❖ Eliminacion
- ❖ Creacion de directorios
- ❖ Creacion de enlaces simbolicos
- ❖ Escritura
- ❖ Lectura



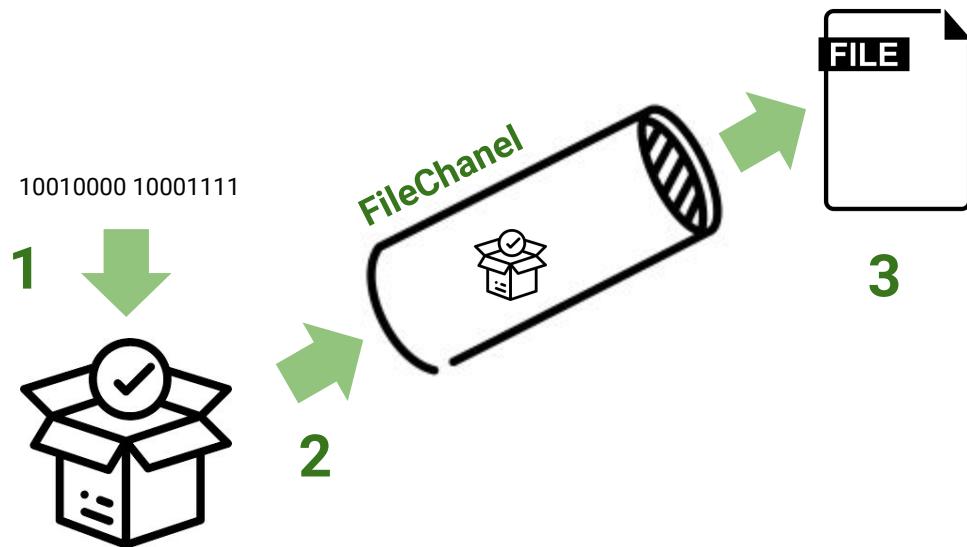


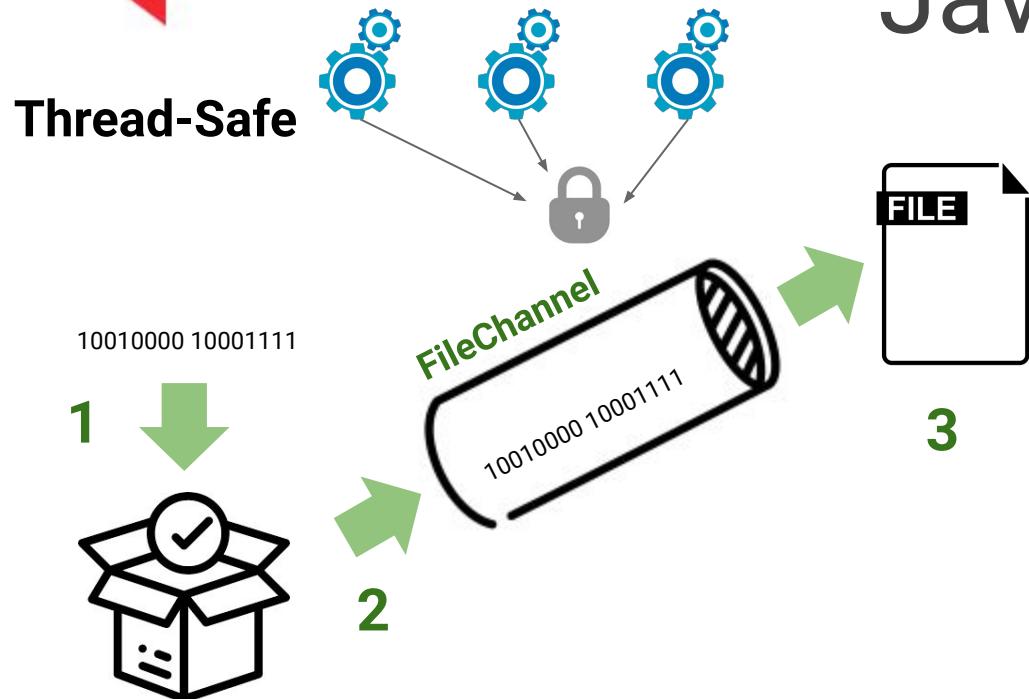
Channels y Buffers

Sitios de referencia



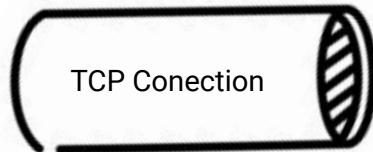
Se inyecta un channel al archivo
Se usa para escribir y leer datos



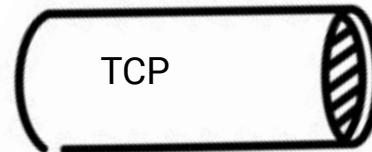




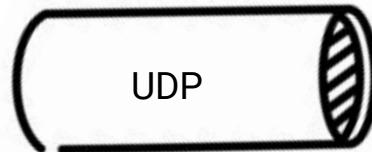
ServerSocketChannel



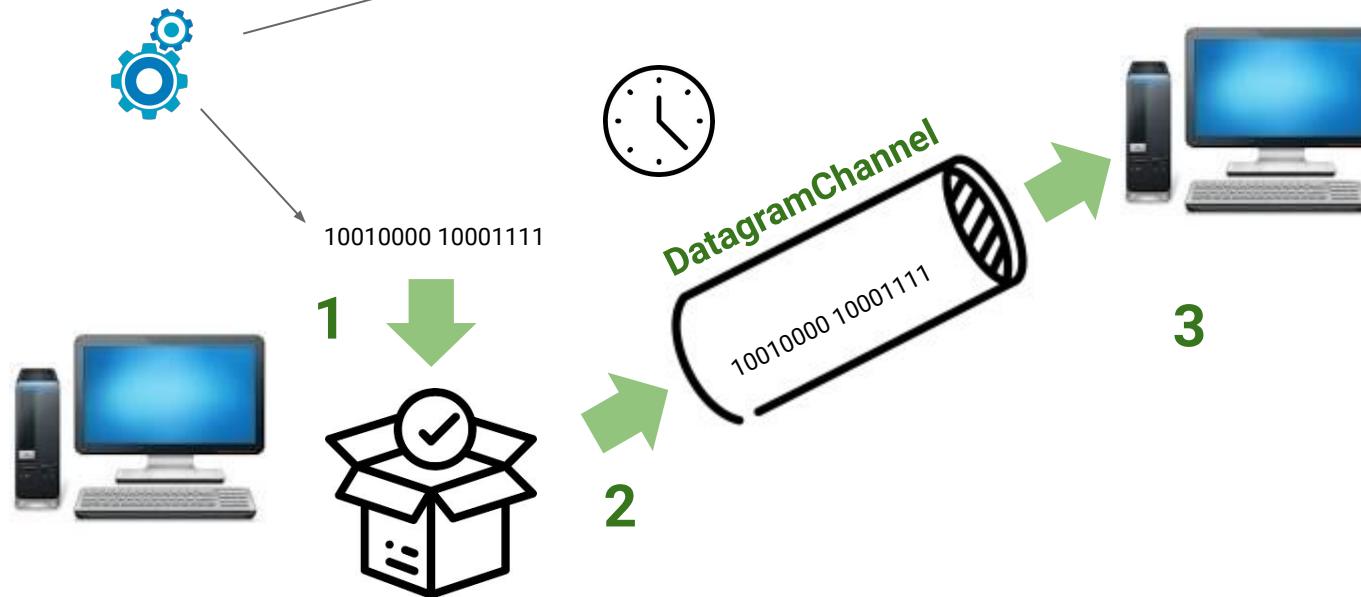
SocketChannels



DatagramChannel



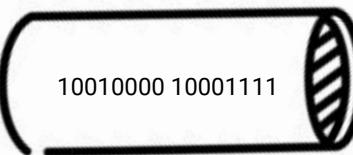
Non-blocking





otraTarea();
otraTarea();

FileChannel

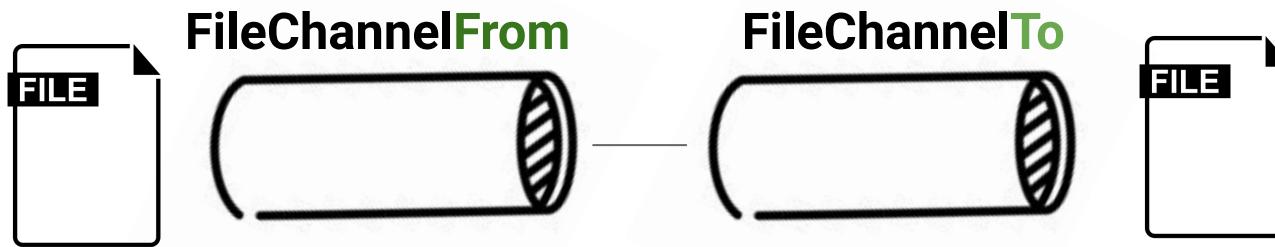


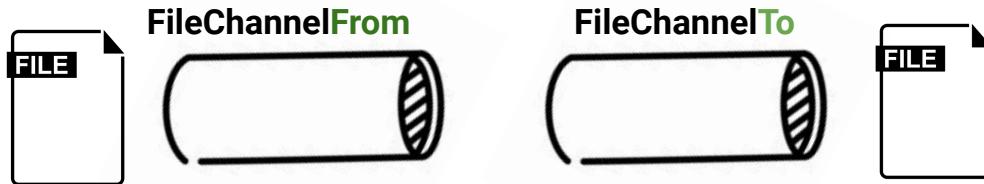
Java I/O



blocking

AsynchronousFileChannel





```
RandomAccessFile fromFile = new RandomAccessFile("fromFile.txt", "rw");
FileChannel    fromChannel = fromFile.getChannel();
```

```
RandomAccessFile toFile = new RandomAccessFile("toFile.txt", "rw");
FileChannel    toChannel = toFile.getChannel();
```

```
long position = 0;
long count   = fromChannel.size();
```

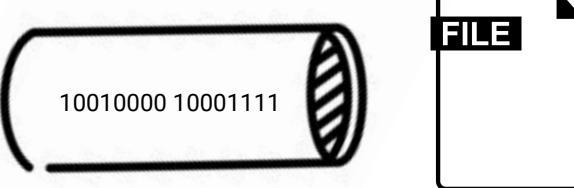
```
toChannel.transferFrom(fromChannel, position, count);
```

otraTarea();
otraTarea();

Java I/O



AsynchronousFileChannel



none-blocking

AsynchronousFileChannel



non-blocking Asynchronous





non-blocking Asynchronous





non-blocking Asynchronous







Bloqueante





No Bloqueante





FIN CLASE 3