
Class java.io.FileInputStream

```
java.lang.Object
   |
   +----java.io.InputStream
           |
           +----java.io.FileInputStream
```

---

public class **FileInputStream**
extends InputStream

File input stream, can be constructed from a file descriptor or a file name.

See Also:
FileOutputStream, File
Version:
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Author:
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Returns the file descriptor associated with this stream.

- **read**()
  Reads a byte of data.
- **read**(byte[])
  Reads data into an array of bytes.
- **read**(byte[], int, int)
  Reads data into an array of bytes.
- **skip**(long)
  Skips n bytes of input.

Constructors

- **FileInputStream**

```
public FileInputStream(String name) throws FileNotFoundException
```

Creates an input file with the specified system dependent file name.

Parameters:
name – the system dependent file name

Throws: IOException
If the file is not found.

- **FileInputStream**

```
public FileInputStream(File file) throws FileNotFoundException
```

Creates an input file from the specified File object.

Parameters:
file – the file to be opened for reading

Throws: IOException
If the file is not found.

- **FileInputStream**

```
public FileInputStream(int fd) throws IOException
```

Creates an input file with the specified system dependent file descriptor.

Parameters:
fd – the system dependent file descriptor

Throws: IOException
If an I/O error has occurred.

Methods

- **read**

```
public int read() throws IOException
```

Reads a byte of data. This method will block if no input is available.

Returns:

the byte read, or –1 if the end of the stream is reached.

Throws: IOException

If an I/O error has occurred.

Overrides:

read in class InputStream

o **read**

```
public int read(byte b[]) throws IOException
```

Reads data into an array of bytes. This method blocks until some input is available.

Parameters:

b – the buffer into which the data is read

Returns:

the actual number of bytes read, –1 is returned when the end of the stream is reached.

Throws: IOException

If an I/O error has occurred.

Overrides:

read in class InputStream

o **read**

```
public int read(byte b[],
                int off,
                int len) throws IOException
```

Reads data into an array of bytes. This method blocks until some input is available.

Parameters:

b – the buffer into which the data is read

off – the start offset of the data

len – the maximum number of bytes read

Returns:

the actual number of bytes read, –1 is returned when the end of the stream is reached.

Throws: IOException

If an I/O error has occurred.

Overrides:

read in class InputStream

o **skip**

```
public long skip(long n) throws IOException
```

Skips n bytes of input.

Parameters:
n – the number of bytes to be skipped
Returns:
the actual number of bytes skipped.
Throws: IOException
If an I/O error has occurred.
Overrides:
skip in class InputStream

- **available**

```
public int available() throws IOException
```

Returns the number of bytes that can be read without blocking.
Returns:
the number of available bytes, which is initially equal to the file size.
Overrides:
available in class InputStream

- **close**

```
public void close() throws IOException
```

Closes the input stream. This method must be called to release any resources associated with the stream.
Throws: IOException
If an I/O error has occurred.
Overrides:
close in class InputStream

- **getFD**

```
public final int getFD()
```

Returns the file descriptor associated with this stream.
Returns:
the file descriptor.

- **finalize**

```
protected void finalize() throws IOException
```

Closes the stream when garbage is collected.
