



File Class

- Used to access information about some specific file.
- Objects of `File` do not actually open any file.



File Class

- **Methods:**
 - `boolean exists()`
 - `boolean isDirectory()`
 - `boolean isFile()`
 - `boolean createNewFile()`
 - `boolean delete()`
 - `boolean mkdir()`



RandomAccessFile

By Rahul Barve



RandomAccessFile

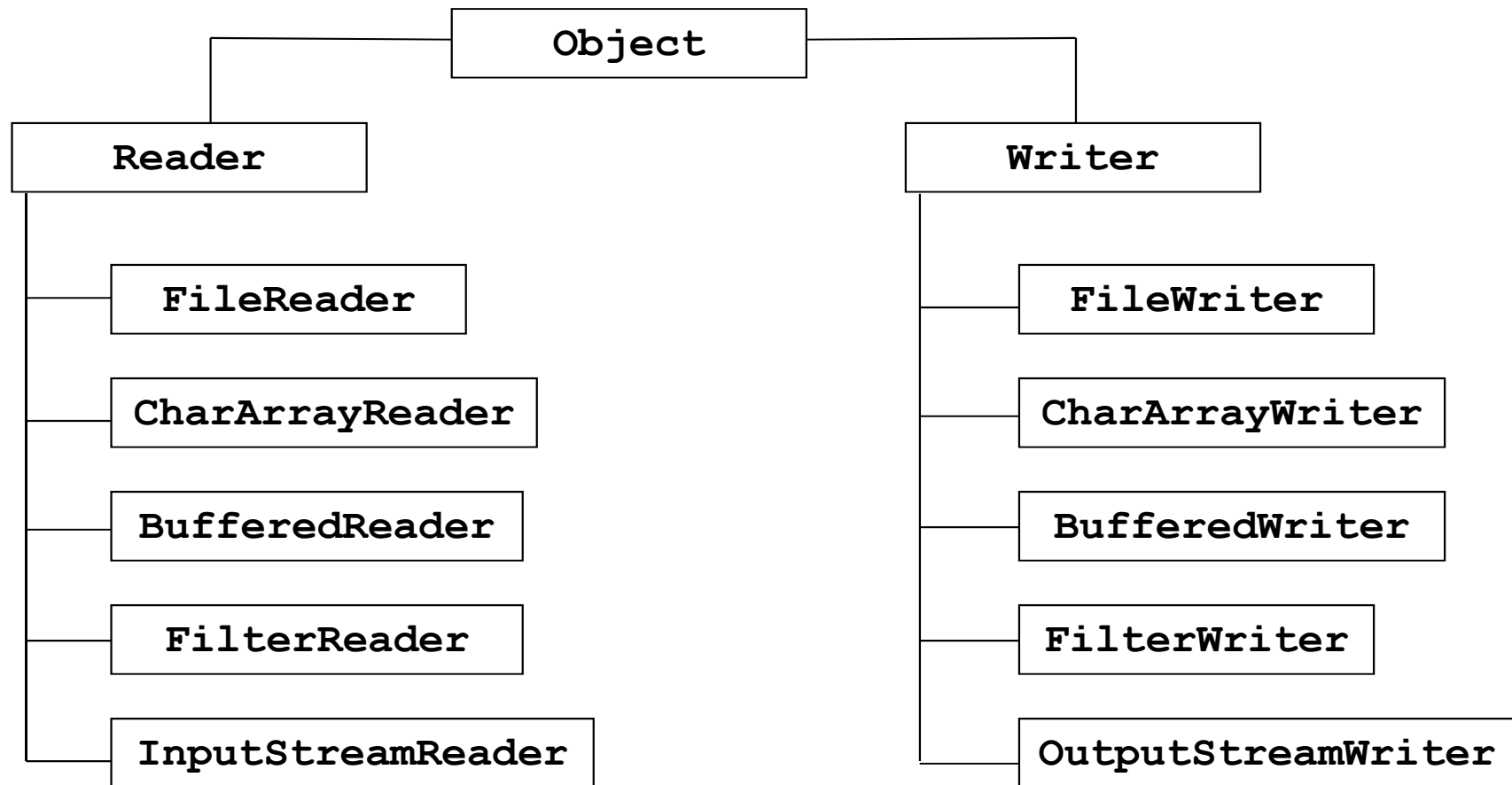
- Allows to place file pointer anywhere in the file, using `seek()` method.
- Can be used to perform both operations:
 - Read
 - Write
- Inherited from `Object` class directly.



Reader – Writer Hierarchy

By Rahul Barve

Reader – Writer Hierarchy





BufferedReader

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BufferedReader

- A character stream used to apply a buffering model for performance optimization.
- Provides a method `readLine()` which allows to read the contents line by line.



System Class

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System Class

- A class from `java.lang` package.
- Provides `public static final` members to read from input device as keyboard and write to the console of the system.



System Class

- `System.in`

Reference of type `java.io.InputStream` that refers to the I/P device i.e. Keyboard.

- `System.out`

Reference of type `java.io.PrintStream` that refers to the O/P device i.e. Console.



Serialization

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Serialization

- The process of storing the state of an object to some permanent persistent store is called as Serialization.



Serialization API

- To perform Serialization and De-Serialization, Java provides a relevant API known as Serialization API.



Serialization API

- `Serializable`
- `ObjectOutputStream`
- `ObjectInputStream`



Serializable

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Serializable

- A marker interface
- Needs to be implemented by a class of which an object is to be serialized.



ObjectOutputStream

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ObjectOutputStream

- A class used to perform serialization.
- Uses `OutputStream` as a target and provides `void writeObject(Object)` method to perform the serialization.



ObjectInputStream

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ObjectInputStream

- A class used to perform de-serialization.
- Uses `InputStream` as a source and provides `Object readObject()` method to perform the de-serialization.