

Java Stream API Tutorials

📅 Last Updated: May 22, 2022 👤 By: Lokesh Gupta 📁 Series 💎 Series

A *Stream in Java* can be defined as a **sequence of elements from a source**, such as arrays, *List*, *Set* or any other collection.

Streams are lazily operated, opposite to collections that must store all the values before it starts processing. **Stream is conceptually a pipeline, in which elements are computed on demand.**

This page lists down the published tutorials on this blog related to Stream API and its related concepts.

1. Stream Basics

- [Introduction to Streams API](#)
- [Java 9 Stream API Improvements](#)
- [Creating Streams](#)
- [Functional Interfaces](#)
- [Generic Functional Interfaces](#)
- [Primitive Type Streams](#)
- [Using 'if-else' Conditions with Streams](#)
- [Creating Infinite Streams](#)
- [Stream of Random Numbers](#)

- [Boxed Streams](#)
- [Stream of Dates](#)

2. Stream Searching, Filtering and Sorting

- [Getting Distinct Stream Items by Comparing Multiple Fields](#)
- [Getting the Last Item of a Stream](#)
- [Get Object with Max Date From a List](#)
- [Find, Count and Remove Duplicates](#)
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- [Sorting Streams in Java](#)
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- [Java Stream count\(\) Matches with filter\(\)](#)

3. Stream Collectors

- [Collecting Stream Items into List](#)
- [Collecting Stream Items into Map](#)

4. Stream Conversions

- [Converting Between Stream and Array](#)
- [Convert Iterable or Iterator to Stream](#)
- [Collecting Stream of Primitives into Collection or Array](#)

5. Stream Operations

- [Append or Prepend Items to a Stream](#)
- [Merging Streams](#)
- [Java Stream reuse – Traverse stream multiple times?](#)

6. Stream API and Methods

- [Guide to IntStream in Java](#)
- [Streams peek\(\) API](#)
- [Difference Between map\(\) and flatMap\(\)](#)
- [Stream findFirst\(\) vs. findAny\(\)](#)
- [Java Stream findAny\(\)](#)
- [Java Stream findFirst\(\)](#)
- [Java Collectors teeing\(\)](#)
- [Java Stream concat\(\)](#)
- [Java Stream toArray\(\)](#)
- [Java Stream noneMatch\(\)](#)
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- [Java Stream skip\(\)](#)
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- [Java Stream flatMap\(\)](#)
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- [Java Stream min\(\)](#)
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- [Java Stream sorted\(\)](#)
- [Java Stream filter\(\)](#)
- [Java Stream forEachOrdered\(\)](#)
- [Java Stream forEach\(\)](#)
- [Java Stream distinct\(\)](#)
- [Listing All Files in a Directory in Java](#)
- [Reading a File Line by Line in Java](#)

[Sourcecode on Github](#)

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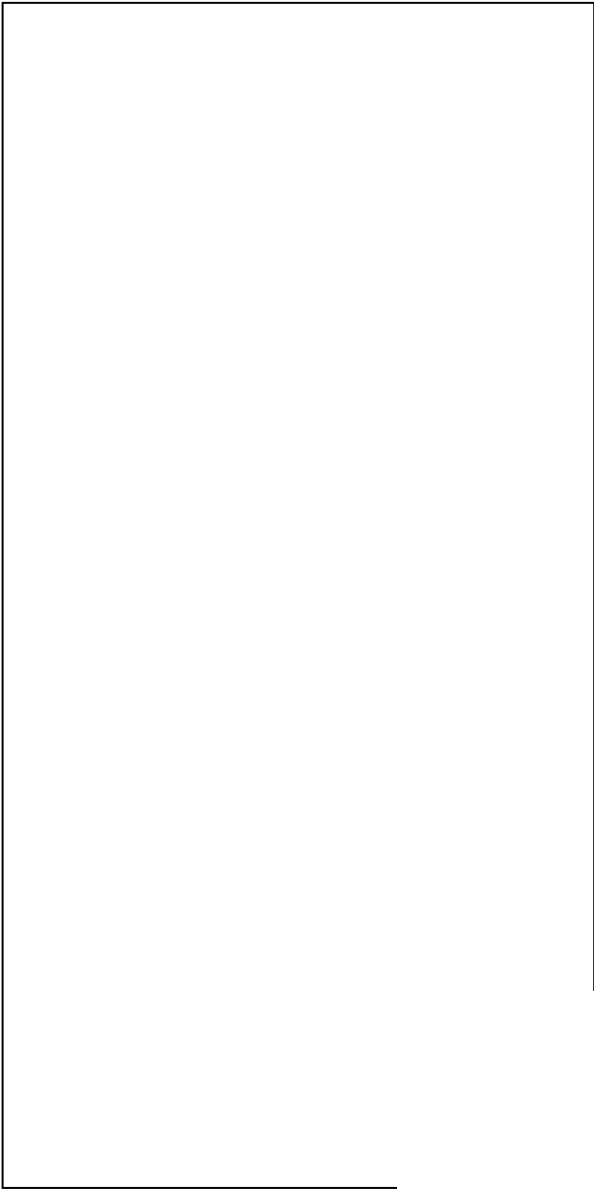
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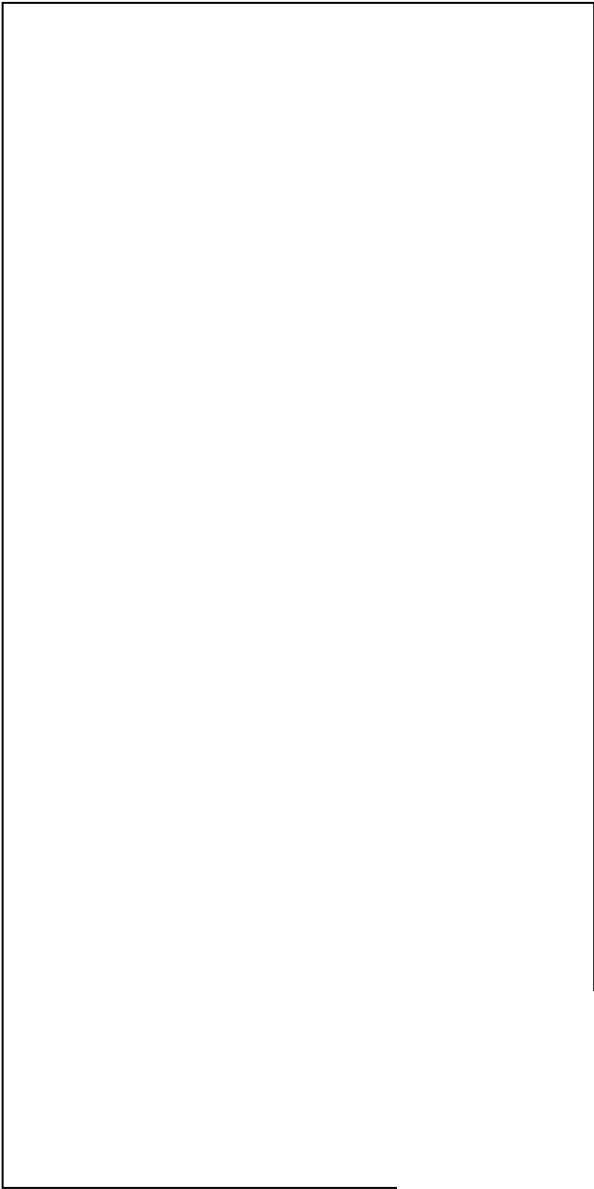
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