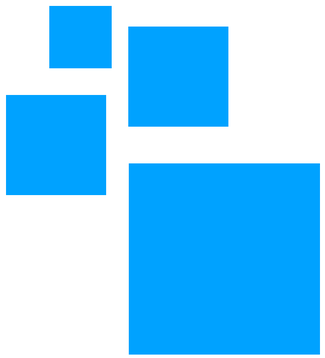
Java Streams API

What is a Stream

- AN ABSTRATION
- FOCUSES ON THE ALL INSTEAD OF THE PARTS



What is a Stream

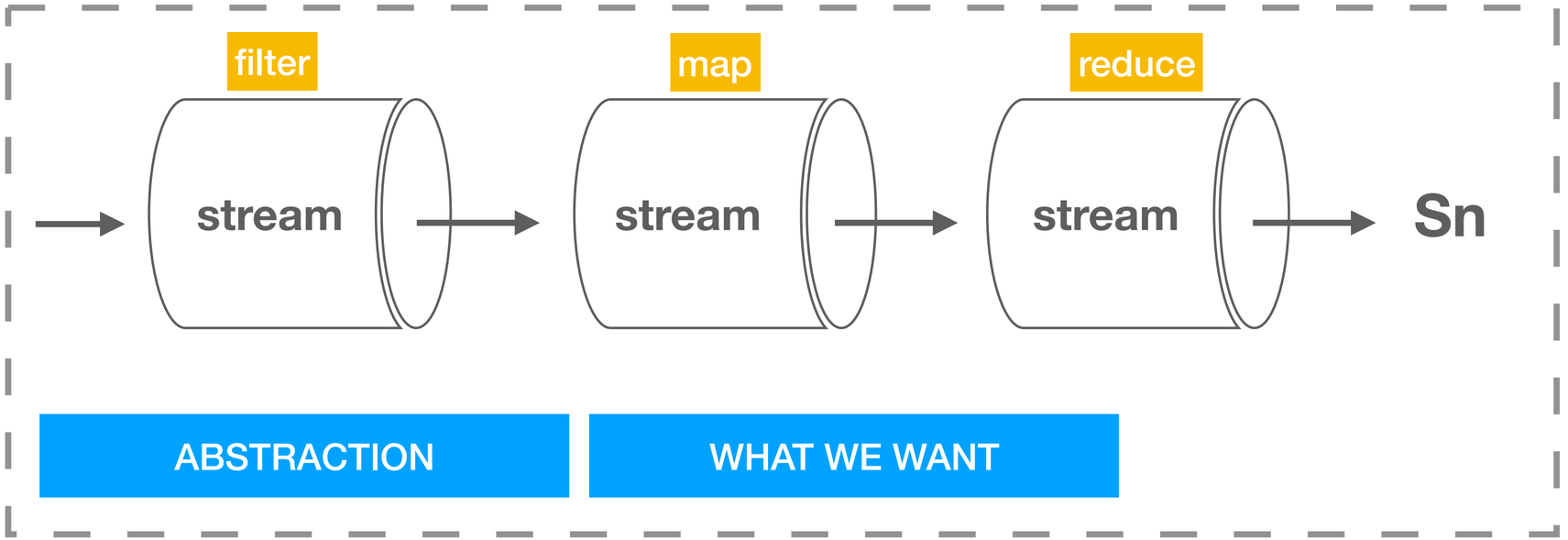
- IMPERATIVE TO FUNCTIONAL PROGRAMMING
- USED WITH COLLECTIONS

How to use Java Streams

- 1 - START WITH CONCRETE IMPLEMENTATION
  - ARRAYS
  - SET
  - LISTS
  - MAPS

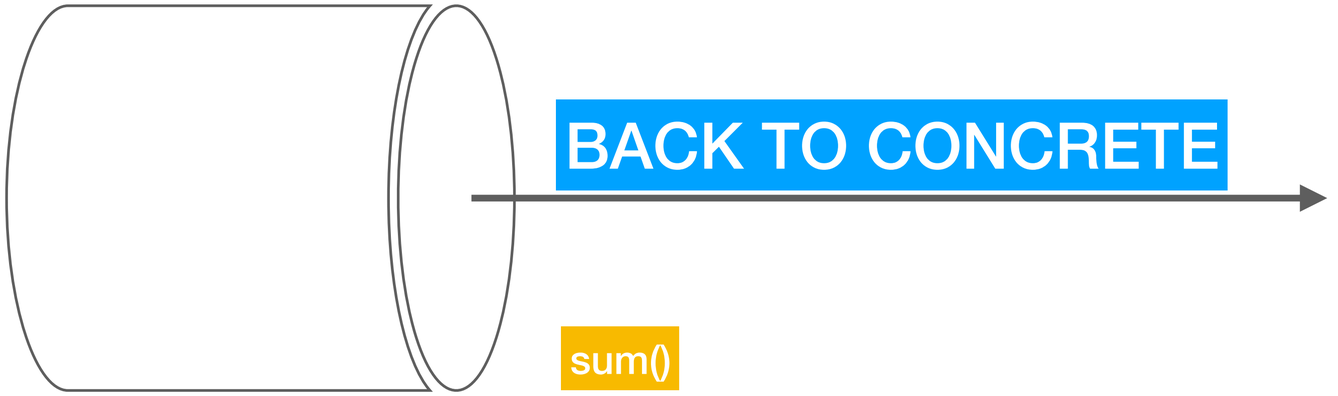
How to use Java Streams

- 2
- concrete.stream()



How to use Java Streams

- 3



- LIST
- INT
- OBJECT
- OPTIONAL
- STRING

sum()

collect(Collectors.toList())

average()

collect(Collectors.groupingBy())

Benefits of Steams

- EASIER TO UNDERSTAND
- MAINTAINABLE
- LESS CODE FOR COMPLEX LOGIC
- PERFORMANCE
- NO NEED TO WORRY ABOUT THREAD SAFETY
- NO MUTATING
- WRITE MORE CODE