Additional Terminal (Reduction) Operations

Reduction operations combine the contents of a stream, to return a value, or they can return a collection.

On this slide, I want to show you some additional terminal operations, and their return types and signatures.

Return Type	Terminal Operations
R	<pre>collect(Collector<? superT,A,R> collector)</pre>
R	<pre>collect(Supplier<r> supplier,BiConsumer<r,? supert=""> accumulator,BiConsumer<r,r> combiner)</r,r></r,?></r></pre>
Optional <t></t>	<pre>reduce(BinaryOperator<t> accumulator)</t></pre>
T	<pre>reduce(T identity,BinaryOperator<t> accumulator)</t></pre>
<u> U</u>	<pre>reduce(U identity,BiFunction<u,? supert,u=""> accumulator,BinaryOperator<u> combiner)</u></u,?></pre>
Object[]	toArray()
A[]	<pre>toArray(IntFunction<a[]> generator)</a[]></pre>
List <t></t>	toList()

Revised View of Transformative Operations

There is one interface I haven't talked about yet, and that's the Collector.

This is not a functional interface, but there are helper methods on another class, named Collectors that provide these special types.

Return Type	Terminal Operations
R	collect(Collector collector)
R	collect(Supplier supplier, BiConsumer accumulator, BiConsumer combiner)
Optional	reduce(BinaryOperator accumulator)
T	<pre>reduce(T identity, BinaryOperator accumulator)</pre>
<u> U</u>	reduce(U identity, BiFunction accumulator, BinaryOperator combiner)
Object[]	toArray()
A[]	toArray(IntFunction generator)
List	toList()