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DETAIL: FIELD | CONSTR | METHOD

Java SE 22 & JDK 22

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SUMMARY: NESTED | FIELD | CONSTR | METHOD

Package java.util.stream

Interface Gatherer.Integrator<A,T,R>

Type Parameters:

Module java.base

A - the type of state used by this integrator

- T the type of elements this integrator consumes
- R the type of results this integrator can produce

All Known Subinterfaces:

Gatherer.Integrator.Greedy PREVIEW < A, T, R >

Enclosing interface:

Gatherer PREVIEW < T, A, R >

Functional Interface:

This is a functional interface and can therefore be used as the assignment target for a lambda expression or method reference.

@FunctionalInterface

public static interface Gatherer.Integrator<A,T,R>

Integrator is a preview API of the Java platform.

Programs can only use Integrator when preview features are enabled.

Preview features may be removed in a future release, or upgraded to permanent features of the Java platform.

An Integrator receives elements and processes them, optionally using the supplied state, and optionally sends incremental results downstream.

Since: 22

Nested Class Summary

Nested	Classes

static interface

Modifier and Type Interface

Description

Gatherer.Integrator.Greedy PREVIEW < A, T, R > Preview.

> Greedy Integrators consume all their input, and may only relay that the downstream does not want more elements.

Method Summary

All Methods

Static Methods

Instance Methods

Abstract Methods

Modifier and Type	Method	Description
boolean	<pre>integrate(A state, T element, Gatherer.Downstream^{PREVIEW}<? super R> downstream)</pre>	Performs an action given: the current state, the next element, and a downstream object; potentially inspecting and/or updating the state, optionally sending any number of elements downstream and then returns whether more elements are to be consumed or not.
static <a, r="" t,=""> Gatherer.Integrator PREVIEW <a,t, r=""></a,t,></a,>	<pre>of(Gatherer.Integrator^{PREVIEW}<a,t,r> integrator)</a,t,r></pre>	Factory method for turning Integrator-shaped lambdas into Integrators.
<pre>static <a, r="" t,=""> Gatherer.Integrator.Greedy^{PREVIEW}<a,t,r></a,t,r></a,></pre>	<pre>ofGreedy(Gatherer.Integrator.GreedyPREVIEW<a,t,r> greedy)</a,t,r></pre>	Factory method for turning Integrator-shaped lambdas into Gatherer. Integrator. Greedy $^{\tt PREVIEW}$ Integrators.

Method Details

integrate

boolean integrate(A state,

T element,

Gatherer.Downstream^{PREVIEW}<? super R> downstream)

Performs an action given: the current state, the next element, and a downstream object; potentially inspecting and/or updating the state, optionally sending any number of elements downstream -- and then returns whether more elements are to be consumed or not.

Parameters:

state - The state to integrate into

element - The element to integrate

downstream - The downstream object of this integration

Returns:

true if subsequent integration is desired, false if not

of

static <A, T, R> Gatherer.Integrator PREVIEW,T,R> of (Gatherer.Integrator PREVIEW,T,R> of (Gatherer.Integrator)

Factory method for turning Integrator-shaped lambdas into Integrators.

Type Parameters:

A - the type of state used by this integrator

T - the type of elements this integrator receives

R - the type of results this integrator can produce

Parameters:

integrator - a lambda to create as Integrator

Returns:

the given lambda as an Integrator

ofGreedy

static <A, T, R>

Gatherer.Integrator.Greedy PREVIEW < A, T, R > of Greedy (Gatherer.Integrator.Greedy PREVIEW < A, T, R > greedy)

Factory method for turning Integrator-shaped lambdas into Gatherer.Integrator.Greedy PREVIEW Integrators.

Type Parameters:

A - the type of state used by this integrator

T - the type of elements this integrator receives

R - the type of results this integrator can produce

Parameters:

greedy - a lambda to create as Integrator. Greedy

Returns:

the given lambda as a Greedy Integrator