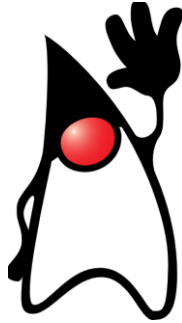


Welcome



Java

20



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**I am now
feature-
complete**

**I will be
available on
March 21, 2023**



**I am bringing
6 JEPs**

**You can use
Early-Access
Builds today**



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Projects

Loom

Amber



Panama

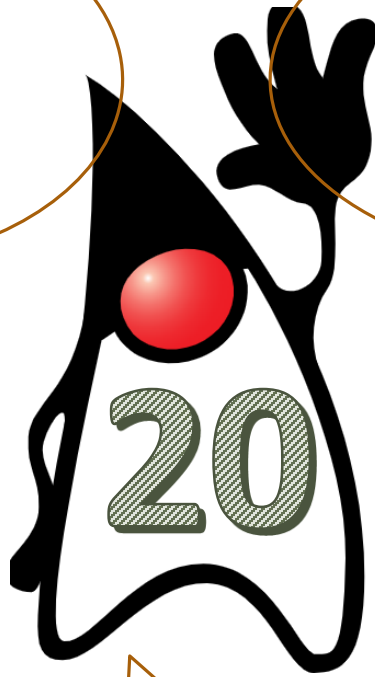


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Loom

**Scoped
values**

**Virtual
threads**



**Structured
concurrency**



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Scoped values

(incubator)
JEP 429

To move toward lightweight sharing for **thousands or millions** of virtual threads, Java 20 offers scoped values.

A scoped value allows data to be safely and efficiently **shared** between components in a large program without using method arguments.



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Virtual threads

(second preview)
JEP 436

Virtual threads
are **lightweight** threads

that **do not block** operating
system threads

when they must wait for
locks, blocking data
structures, or responses from
external systems.



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Structured concurrency

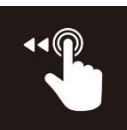
(second incubator)

JEP 437

When a task consists of
multiple **subtasks**

that can be processed in
parallel,

structured concurrency
allows you to implement that
parallelism in a particularly
readable and maintainable
way.



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Amber

Record patterns



**Pattern
matching for
switch**



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Record patterns

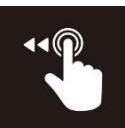
(second preview)

JEP 432

A record pattern

can be used with
instanceof or **switch**

to **access** the fields of a
record without casting
and calling accessor
methods.



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Pattern matching for switch

(fourth preview)
JEP 433

The following two enhancements were added in Java 20 with the fourth preview of JEP 433:

- 1) **MatchException** for exhaustive switch
- 2) Inference of type arguments for generic record patterns in switch expressions and statements



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Panama

**Foreign function
and memory API**



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Foreign function and memory API

(second preview)

JEP 434

Its goal is to **replace** the cumbersome, error-prone, and slow Java Native Interface (**JNI**).

The unified API allows access to **native memory** and the execution of **native code** from Java



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