

1. Difference between Java future and completableFuture

A **Future** that may be explicitly completed (setting its value and status), and may be used as a `CompletionStage`, supporting dependent functions and actions that trigger upon its completion. When two or more threads attempt to complete, `completeExceptionally`, or cancel a **CompletableFuture**, only one of them succeeds.

A **CompletableFuture** is used for asynchronous programming. Asynchronous programming means writing non-blocking code. It runs a task on a separate thread than the main application thread and notifies the main thread about its progress, completion or failure.