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Article

Swift updates

Learn about important changes to Swift.



Overview

Browse notable changes in [Swift](#). For information about Swift language changes, refer to [The Swift Programming Language](#).

June 2025

Swift standard library

- Safely access contiguous regions of memory, like a container's underlying storage, using [Span](#) and [RawSpan](#). Safely modify that memory using [MutableSpan](#) and [MutableRawSpan](#).

Many collections in the standard library now have a `span` property that provides access to their underlying storage. `Span` has a `bytes` property to access the raw storage when the element type supports it.

- Process Unicode strings efficiently and safely, using [UTF8Span](#) to access a contiguous region of memory.
- Create fixed-size arrays that have contiguous underlying storage using [InlineArray](#).
- To identify a task during debugging, you can set a name for a detached task using [`init\(name:priority:operation:\)`](#), and for a task in a task group using [`addTask\(name:priority:operation:\)`](#). Access the current task's name using [name](#).
- Start a task immediately using
`doc://com.apple.documentation/documentation/Swift/Task/immediate(name:priority:operation:)-9qda2`.

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Swift standard library

- Operate on noncontiguous ranges in collections using [RangeSet](#) and [DiscontiguousSlice](#).
 - Control which executor runs a task using [TaskExecutor](#).
 - Validate that C strings contain well-formed Unicode text when converting to them to `String` with [`init\(validatingCString:\)`](#) and [`init\(validating:as:\)`](#).
 - Preserve more information about thrown errors from [AsyncSequence](#) and [AsyncIteratorProtocol](#) using their `Failure` associated type.
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See Also

Technology updates

-  Accelerate updates

Learn about important changes to Accelerate.
-  Accessibility updates

Learn about important changes to Accessibility.
-  ActivityKit updates

Learn about important changes in ActivityKit.
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