Article

SwiftData updates

Learn about important changes to SwiftData.

Overview

Browse notable changes in SwiftData.

June 2025

- Increase the flexibility of your models by adopting inheritance through the `Model()` macro.

- Gain added flexibility in accessing and sorting transaction history using `sortBy` in the `HistoryDescriptor`.

June 2024

Macros

- Improve performance of sorts and predicate-based fetches by using the `Index(_:)` macro to define individual and compound indexes.

- Define a unique constraint that includes one or more model attributes using the `Unique(_:)` macro, enabling SwiftData to regard tuples of attributes as unique.

- Specify `nil` as a relationship's `inverse` to create a unidirectional relationship.

Persistent history

- Fetch historical changes for one or more persistent models using the model context's `fetchHistory(_:)` method.

- Delete stale model history from a persistent store by calling the context's `deleteHistory(_:)` method.

- Provide an alternate change tracking strategy for your custom persistent store by adopting the `HistoryProviding` protocol.

Custom persistent stores

- Adopt the `DataStore` protocol (and related protocols) to provide custom storage for your app's persistent models.

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