Type Alias

SHA2_256

An implementation of Secure Hashing Algorithm 2 (SHA-2) hashing with a 256-bit digest.

iOS 26.0+ | iPadOS 26.0+ | Mac Catalyst 26.0+ | macOS 26.0+ | tvOS 26.0+ | visionOS 2.0+ | watchOS 26.0+

```swift
typealias SHA2_256 = SHA256
```

Discussion

The SHA2_256 hash implements the HashFunction protocol for the specific case of SHA-2 hashing with a 256-bit digest (SHA256Digest). Larger digests take more space but are more secure.

You can compute the digest by calling the static `hash(data:)` method once. Alternatively, if the data that you want to hash is too large to fit in memory, you can compute the digest iteratively by creating a new hash instance, calling the `update(data:)` method repeatedly with blocks of data, and then calling the `finalize()` method to get the result.