

[Apple CryptoKit](#) / SymmetricKeySize

Structure

SymmetricKeySize

The sizes that a symmetric cryptographic key can take.

iOS 13.0+ | iPadOS 13.0+ | Mac Catalyst 13.0+ | macOS 10.15+ | tvOS 13.0+ | visionOS 1.0+ | watchOS 6.0+

```
struct SymmetricKeySize
```

Overview

When creating a new [SymmetricKey](#) instance with a call to its `init(size:)` initializer, you typically use one of the standard key sizes, like [bits128](#), [bits192](#), or [bits256](#). When you need a key with a non-standard length, use the `init(bitCount:)` initializer to create a [SymmetricKeySize](#) instance with a custom bit count.

Topics

Using standard key lengths

```
static var bits128: SymmetricKeySize
```

A size of 128 bits.

```
static var bits192: SymmetricKeySize
```

A size of 192 bits.

```
static var bits256: SymmetricKeySize
```

A size of 256 bits.

Creating a nonstandard key length

```
init(bitCount: Int)
```

Creates a new key size of the given length.

Getting the length

```
let bitCount: Int
```

The number of bits in the key.

Relationships

Conforms To

Sendable, SendableMetatype

See Also

Message authentication codes

```
struct HMAC
```

A hash-based message authentication algorithm.

```
struct SymmetricKey
```

A symmetric cryptographic key.