

[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.

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## Relationships

### Conforms To

Sendable, SendableMetatype

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## See Also

### Message authentication codes

`struct HMAC`

A hash-based message authentication algorithm.

`struct SymmetricKey`

A symmetric cryptographic key.