

[Swift](#) / Codable

Type Alias

Codable

A type that can convert itself into and out of an external representation.

iOS 8.0+ | iPadOS 8.0+ | Mac Catalyst 13.0+ | macOS 10.10+ | tvOS 9.0+ | visionOS 1.0+ | watchOS 2.0+

```
typealias Codable = Decodable & Encodable
```

Discussion

Codable is a type alias for the Encodable and Decodable protocols. When you use Codable as a type or a generic constraint, it matches any type that conforms to both protocols.

See Also

Custom Encoding and Decoding

 [Encoding and Decoding Custom Types](#)

Make your data types encodable and decodable for compatibility with external representations such as JSON.

`protocol` [Encodable](#)

A type that can encode itself to an external representation.

`protocol` [Decodable](#)

A type that can decode itself from an external representation.

`protocol` [CodingKey](#)

A type that can be used as a key for encoding and decoding.

`protocol CodingKeyRepresentable`

A type that can be converted to and from a coding key.

`struct CodingUserInfoKey`

A user-defined key for providing context during encoding and decoding.