

[Contacts](#) / CNMutableContact

Class

# CNMutableContact

A mutable object that stores information about a single contact, such as the contact's first name, phone numbers, and addresses.

iOS 9.0+ | iPadOS 9.0+ | Mac Catalyst 13.1+ | macOS 10.11+ | visionOS 1.0+ | watchOS 2.0+

```
class CNMutableContact
```

## Overview

CNMutableContact objects are not a thread-safe class. To access the contact information in a thread-safe manner, use a [CNContact](#) object instead.

You may modify only those properties whose values you fetched from the contacts database. When fetching a contact, you specify which properties you want to retrieve from the database. The contact store then populates the properties of a [CNContact](#) object with those values. After creating a mutable copy of that object, you can modify only those properties for which a value exists. If you attempt to access a property that is not available, the CNMutableContact object throws a [CNContactPropertyNotFetchedExceptionName](#) exception.

To remove the value for a property, set string and array properties to empty, and set all other properties to nil.

## Topics

### Setting the Identity of the Contact

```
var contactType: CNContactType
```

An enum identifying the contact type.

## Setting Name Information

```
var namePrefix: String
```

The name prefix of the contact.

```
var givenName: String
```

The given name of the contact.

```
var middleName: String
```

The middle name of the contact.

```
var familyName: String
```

The family name of the contact.

```
var previousFamilyName: String
```

The previous family name of the contact.

```
var nameSuffix: String
```

The name suffix of the contact.

```
var nickname: String
```

The nickname of the contact.

```
var phoneticGivenName: String
```

The phonetic given name of the contact.

```
var phoneticMiddleName: String
```

The phonetic middle name of the contact.

```
var phoneticFamilyName: String
```

The phonetic family name of the contact.

## Setting Work Information

```
var jobTitle: String
```

The contact's job title.

```
var departmentName: String
```

The name of the department associated with the contact.

```
var organizationName: String
```

The name of the organization associated with the contact.

```
var phoneticOrganizationName: String
```

The phonetic name of the organization associated with the contact.

## Setting Addresses

```
var postalAddresses: [CNLabeledValue<CNPostalAddress>]
```

An array of labeled postal addresses for a contact.

```
var emailAddresses: [CNLabeledValue<NSString>]
```

An array of labeled email addresses for the contact.

```
var urlAddresses: [CNLabeledValue<NSString>]
```

An array of labeled URL addresses for a contact.

## Setting Phone Information

```
var phoneNumbers: [CNLabeledValue<CNPhoneNumber>]
```

An array of labeled phone numbers for a contact.

## Setting Social Profiles

```
var socialProfiles: [CNLabeledValue<CSocialProfile>]
```

An array of labeled social profiles for a contact.

## Setting Birthday Information

```
var dates: [CNLabeledValue<NSDateComponents>]
```

An array containing labeled Gregorian dates.

```
var nonGregorianBirthday: DateComponents?
```

A date component for the non-Gregorian birthday of the contact.

```
var birthday: DateComponents?
```

A date component for the Gregorian birthday of the contact.

## Setting Notes

```
var note: String
```

A string containing notes for the contact.

## Setting Images

```
var imageData: Data?
```

The profile picture of a contact.

## Relating Other Information to the Contact

```
var contactRelations: [CNLabeledValue<CNContactRelation>]
```

An array of labeled contact relations for the contact.

```
var instantMessageAddresses: [CNLabeledValue<CNInstantMessageAddress>]
```

An array of labeled IM addresses for the contact.

## Instance Properties

```
var id: UUID
```

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## Relationships

### Inherits From

CNContact

### Conforms To

CVarArg

CustomDebugStringConvertible

CustomStringConvertible

Equatable

Hashable

Identifiable

NSCoding  
NSCopying  
NSItemProviderReading  
NSItemProviderWriting  
NSMutableCopying  
NSObjectProtocol  
NSSecureCoding

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## See Also

### Contact data

`class CNContact`

An immutable object that stores information about a single contact, such as the contact's first name, phone numbers, and addresses.

☰ Data Objects

Access contact-related data, such as the user's postal address and phone number.

☰ Contact Keys

Specify contact-related properties during fetch operations.