
ABPicker Reference for C

[Carbon](#) > [Apple Applications](#)



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|------------------------|---|
| Derived From: | CType |
| Framework: | AddressBook/ABAddressBookC.h |
| Companion guide | Address Book Programming Guide for Mac OS X |
| Declared in | ABPeoplePickerC.h |

Overview

The ABPicker opaque type allows you create and manipulate people-picker windows in an application's user interface.

Use [ABPickerCreate](#) (page 9) to create a people-picker window and [ABPickerSetVisibility](#) (page 17) to make it visible. Use [ABPickerAddProperty](#) (page 5) to add properties to the record list. Users can specify which property to display by clicking the property column in the record list and choosing the desired property.

Functions

ABPickerAddProperty

Adds a property to the group of properties available in the record list. Use [ABPickerRemoveProperty](#) (page 13) to remove a property from the list and [ABPickerCopyProperties](#) (page 7) to obtain the list of properties available in the list.

```
void ABPickerAddProperty (
    ABPickerRef inPicker,
    CFStringRef inProperty
);
```

Parameters

inPicker

The people-picker window to manipulate.

inProperty

The property to add, specified using one of the `kAB...Property` constants (defined in `ABPerson` and `ABRecord`) or a custom string.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerChangeAttributes

Specifies the selection behaviors for a people-picker window. Use [ABPickerGetAttributes](#) (page 12) to obtain the selection behaviors specified for the window.

```
void ABPickerChangeAttributes (
    ABPickerRef inPicker,
    ABPickerAttributes inAttributesToSet,
    ABPickerAttributes inAttributesToClear
);
```

Parameters*inPicker*

The people-picker window to manipulate.

inAttributesToSet

The attributes to set for the window. The possible selection behaviors are described in [ABPickerAttributes](#) (page 18).

inAttributesToClear

The attributes to unset for the window. The possible selection behaviors are described in [ABPickerAttributes](#) (page 18).

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerClearSearchField

Clears the search field and resets the list of displayed records.

```
void ABPickerClearSearchField (
    ABPickerRef inPicker
);
```

Parameters*inPicker*

The people-picker window to manipulate.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerCopyColumnTitle

Obtains the title of a custom property.

```
CFStringRef ABPickerCopyColumnName (
    ABPickerRef inPicker,
    CFStringRef inProperty
);
```

Parameters

inPicker

The people-picker window in question.

Return Value

The title of the column that displays the custom property in the record list.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerCopyDisplayedProperty

Returns the name of the property currently displayed in the record list.

```
CFStringRef ABPickerCopyDisplayedProperty (
    ABPickerRef inPicker
);
```

Parameters

inPicker

The people-picker window in question.

Return Value

The name of the property displayed.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerCopyProperties

Obtains the list of properties available in the record list. Use [ABPickerAddProperty](#) (page 5) to add a property to the record list and [ABPickerRemoveProperty](#) (page 13) to remove a property from the list.

```
CFArrayRef ABPickerCopyProperties (
    ABPickerRef inPicker
);
```

Parameters

inPicker

The people-picker window in question.

Return Value

An array with the list of properties available in the record list.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerCopySelectedGroups

Returns the groups selected in the group list as an array of ABGroup objects.

```
CFArrayRef ABPickerCopySelectedGroups (  
    ABPickerRef inPicker  
);
```

Parameters

inPicker

The people-picker window in question.

Return Value

An array with the groups selected in the group list.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerCopySelectedIdentifiers

Returns the identifiers of the selected values in a multi-value property or an empty array if the property displayed is a single-value property.

```
CFArrayRef ABPickerCopySelectedIdentifiers (  
    ABPickerRef inPicker,  
    ABPersonRef inPerson  
);
```

Parameters

inPicker

The people-picker window in question.

inPerson

The ABPerson that contains the multi-value property in question.

Return Value

An array of CFString objects representing the selected identifiers.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerCopySelectedRecords

Returns the selection in the record list as an array of ABGroup or ABPerson objects.

```
CFArrayRef ABPickerCopySelectedRecords (
    ABPickerRef inPicker
);
```

Parameters

inPicker

The people-picker window in question.

Return Value

An array with the groups or records selected in the record list.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerCopySelectedValues

Returns the selected values in a multi-value property or an empty array if no values are selected or the property displayed is a single-value property.

```
CFArrayRef ABPickerCopySelectedValues (
    ABPickerRef inPicker
);
```

Parameters

inPicker

The people-picker window in question.

Return Value

An array of the values selected.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerCreate

Creates an ABPickerRef. The corresponding window is hidden. Invoke [ABPickerSetVisibility](#) (page 17) to show it. Release with `CFRelease`.

```
ABPickerRef ABPickerCreate (
    void
);
```

Return Value

The object that represents the people-picker window.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerDeselectAll

Deselects all selected groups, records, and values in multi-value properties.

```
void ABPickerDeselectAll (  
    ABPickerRef inPicker  
);
```

Parameters

inPicker

The people-picker window to manipulate.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerDeselectGroup

Deselects a group in the group list.

```
void ABPickerDeselectGroup (  
    ABPickerRef inPicker,  
    ABGroupRef inGroup  
);
```

Parameters

inPicker

The people-picker window to manipulate.

inGroup

The group to deselect in the list.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerDeselectIdentifier

Deselects a value in multi-value property currently displayed in the record list.

```
void ABPickerDeselectIdentifier (
    ABPickerRef inPicker,
    ABPersonRef inPerson,
    CFStringRef inIdentifier
);
```

Parameters

inPicker

The people-picker window to manipulate.

inPerson

The ABPerson that contains the multi-value property in question.

inIdentifier

The identifier of the value to deselect in the multi-value property.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerDeselectRecord

Deselects a group in the record list.

```
void ABPickerDeselectRecord (
    ABPickerRef inPicker,
    ABRecordRef inRecord
);
```

Parameters

inPicker

The people-picker window to manipulate.

inRecord

The record to deselect in the list.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerEditInAddressBook

Launches Address Book to edit the item selected in the people-picker window.

```
void ABPickerEditInAddressBook (
    ABPickerRef inPicker
);
```

Parameters

inPicker

The people-picker window in question.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerGetAttributes

Indicates the selection behaviors selected a people-picker window. Use [ABPickerChangeAttributes](#) (page 6) to specify selection behaviors for the window.

```
ABPickerAttributes ABPickerGetAttributes (
    ABPickerRef inPicker
);
```

Parameters

inPicker

The people-picker window in question.

Return Value

An OptionBits object with the selection behaviors selected for the window. The possible selection behaviors are described in [ABPickerAttributes](#) (page 18).

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerGetDelegate

Obtains the delegate for a people-picker window.

```
EventTargetRef ABPickerGetDelegate (
    ABPickerRef inPicker
);
```

Parameters

inPicker

The people-picker window in question.

Return Value

The window's delegate.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerGetFrame

Returns the position and size of the people-picker window.

```
void ABPickerGetFrame (
    ABPickerRef inPicker,
    HIRect *outFrame
);
```

Parameters*inPicker*

The people-picker window in question.

outFrame

On output, the position and size of the window in screen coordinates.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerIsVisible

Indicates whether the people-picker window is visible.

```
bool ABPickerIsVisible (
    ABPickerRef inPicker
);
```

Parameters*inPicker*

The people-picker window in question.

Return Value

true when the window is visible, false otherwise.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerRemoveProperty

Removes a property from the group of properties whose values are shown in the record list. Use [ABPickerAddProperty](#) (page 5) to add a property to the record list and [ABPickerCopyProperties](#) (page 7) to obtain the list of properties shown in the record list.

```
void ABPickerRemoveProperty (
    ABPickerRef inPicker,
    CFStringRef inProperty
);
```

Parameters*inPicker*

The people-picker window to manipulate.

inProperty

The property to remove, specified using one of the `kAB...Property` constants or a custom string.

Return Value

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerSelectGroup

Selects a group or a set of groups in the group list.

```
void ABPickerSelectGroup (
    ABPickerRef inPicker,
    ABGroupRef inGroup,
    bool inExtendSelection
);
```

Parameters

inPicker

The people-picker window to manipulate.

inGroup

The group to select.

inExtendSelection

true if you want to add *inGroup* to the list of selected groups in the group list; false if you want *inGroup* to be the only group selected in the list.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerSelectIdentifier

Selects a value or a set of values in a multi-value property.

```
void ABPickerSelectIdentifier (
    ABPickerRef inPicker,
    ABPersonRef inPerson,
    CFStringRef inIdentifier,
    bool inExtendSelection
);
```

Parameters

inPicker

The people-picker window to manipulate.

inPerson

The person with the multi-value property with the value to select.

inIdentifier

The identifier of the value to select in the multi-value property.

inExtendSelection

`true` if you want to add the value to the list of selected values in the multi-value property of the desired person; `false` if you want the value to be the only value selected in the list.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerSelectInAddressBook

Launches Address Book and selects the item selected in the people-picker window.

```
void ABPickerSelectInAddressBook (
    ABPickerRef inPicker
);
```

Parameters

inPicker

The people-picker window in question.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerSelectRecord

Selects a record or a set of records in the record list.

```
void ABPickerSelectRecord (
    ABPickerRef inPicker,
    ABRecordRef inRecord,
    bool inExtendSelection
);
```

Parameters

inPicker

The people-picker window to manipulate.

inRecord

The record to select.

inExtendSelection

`true` if you want to add *inRecord* to the list of selected records in the record list; `false` if you want *inRecord* to be the only record selected in the list.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerSetColumnNameTitle

Sets the title for a custom property.

```
void ABPickerSetColumnNameTitle (
    ABPickerRef inPicker,
    CFStringRef inTitle,
    CFStringRef inProperty
);
```

Parameters

inPicker

The people-picker window to manipulate.

inTitle

The new column title.

inProperty

The property whose column's title to set.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerSetDelegate

Sets the event handler for people-picker events.

```
void ABPickerSetDelegate (
    ABPickerRef inPicker,
    EventTargetRef inDelegate
);
```

Parameters

inPicker

The people-picker window in question.

inDelegate

The delegate for the window.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerSetDisplayedProperty

Displays one of the properties whose values are shown in the record list.


```
void ABPickerSetDisplayedProperty (
    ABPickerRef inPicker,
    CFStringRef inProperty
);
```

Parameters

inPicker
The people-picker window to manipulate.

inProperty
The property to display.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerSetFrame

Specifies the position and size of the people-picker window.

```
void ABPickerSetFrame (
    ABPickerRef inPicker,
    const HIRect *inFrame
);
```

Parameters

inPicker
The people-picker window to manipulate.

inFrame
The size and position of the window in screen coordinates.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerSetVisibility

Shows or hides a people-picker window.

```
void ABPickerSetVisibility (
    ABPickerRef inPicker,
    bool visible
);
```

Parameters

inPicker
The people-picker window to manipulate.

visible
true to show the window and false to hide it.

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

Data Types

ABAddressBookRef

A reference to an ABPicker object.

```
typedef struct OpaqueABPicker *ABPickerRef;
```

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

ABPickerAttributes

These constants specify the selection behavior for the values of multi-value properties.

```
typedef OptionBits ABPickerAttributes;
```

DiscussionWhen multiple behaviors are selected, the most restrictive behavior is used. The default behavior is single-value selection (`kABPickerSingleValueSelection`).

| Constant | Description |
|--|---|
| <code>kABPickerSingleValueSelection</code> Available in Mac OS X v10.3 and later. Declared in ABPeoplePickerC.h. | Allows the user to select a single value. |
| <code>kABPickerMultipleValueSelection</code> Available in Mac OS X v10.3 and later. Declared in ABPeoplePickerC.h. | Allows the user to select multiple values. |
| <code>kABPickerAllowGroupSelection</code> | Allows the user to select entire groups in the groups list. Otherwise, at least one record is selected when the user selects a group. |
| <code>kABPickerAllowMultipleSelection</code> | Allows the user to select more than one group or record at a time. |

Availability

Available in Mac OS X v10.3 and later.

Declared In

ABPeoplePickerC.h

Constants

People-Picker Event Class

This is the People Picker event class.

```
enum {
    kEventClassABPeoplePicker = 'abpp'
};
```

Constants

kEventClassABPeoplePicker

The class of people-picker events.

Available in Mac OS X v10.3 and later.

Declared in ABPeoplePickerC.h.

Availability

Available in Mac OS X v10.3 and later.

People-Picker Event Kinds

Constants used to specify People Picker event types.

```
enum {
    kEventABPeoplePickerGroupSelectionChanged = 1,
    kEventABPeoplePickerNameSelectionChanged = 2,
    kEventABPeoplePickerValueSelectionChanged = 3,
    kEventABPeoplePickerDisplayedPropertyChanged = 4,
    kEventABPeoplePickerGroupDoubleClicked = 5,
    kEventABPeoplePickerNameDoubleClicked = 6,
};
```

Constants

kEventABPeoplePickerGroupSelectionChanged

The selection in the group list changed.

Available in Mac OS X v10.3 and later.

Declared in ABPeoplePickerC.h.

kEventABPeoplePickerNameSelectionChanged

The selection in the name list changed.

Available in Mac OS X v10.3 and later.

Declared in ABPeoplePickerC.h.

`kEventABPeoplePickerValueSelectionChanged`
 The selection in a multi-value property changed.
 Available in Mac OS X v10.3 and later.
 Declared in `ABPeoplePickerC.h`.

`kEventABPeoplePickerDisplayedPropertyChanged`
 The displayed property in the record list changed.
 Available in Mac OS X v10.3 and later.
 Declared in `ABPeoplePickerC.h`.

`kEventABPeoplePickerGroupDoubleClicked`
 A group in the group list was double-clicked.
 Available in Mac OS X v10.3 and later.
 Declared in `ABPeoplePickerC.h`.

`kEventABPeoplePickerNameDoubleClicked`
 A record in the record list was double-clicked.
 Available in Mac OS X v10.3 and later.
 Declared in `ABPeoplePickerC.h`.

Discussion

A people-picker window delegate is notified when the events defined earlier occur. People Picker events contain an event parameter, which contains the ABPicker object. Use the following code to obtain the ABPicker object:

```
GetEventParameter ( inEvent, kEventParamABPickerRef,
                   typeCFTTypeRef, NULL, sizeof(ABPickerRef),
                   NULL, &outPickerRef );
```

Availability

Available in Mac OS X v10.3 and later.

People-Picker Event Parameter Name

Use this constant to obtain the ABPicker object from a People Picker event.

```
enum {
    kEventParamABPickerRef = 'abpp'
};
```

Constants

`kEventParamABPickerRef`
 The parameter name of people-picker events.
 Available in Mac OS X v10.3 and later.
 Declared in `ABPeoplePickerC.h`.

Availability

Available in Mac OS X v10.3 and later.

Document Revision History

This table describes the changes to *ABPicker Reference for C*.

| Date | Notes |
|------------|---|
| 2007-07-20 | Made minor corrections throughout. |
| 2003-08-20 | First version of the ABPickerRef Reference for C. |

REVISION HISTORY

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