
User Defaults Programming Topics for Cocoa

Data Management: Preference Settings



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Introduction to User Defaults

This programming topic describes the programmatic interface for interacting with the Mac OS X user preferences system—also known as the user defaults system—using Cocoa. Preference settings let you offer ways for users to customize the appearance or behavior of your software. The user defaults system lets you access and manage user preferences. You can use the defaults system to provide reasonable initial values for application settings, as well as save and retrieve the user's own preference selections across sessions.

The `NSUserDefaults` class only supports the storage of objects that can be serialized to property lists. This limitation would seem to exclude many kinds of objects, such as `NSColor` and `NSFont` objects, from the user default system. But if objects conform to the `NSCoding` protocol they can be archived to `NSData` objects, which are property list-compatible objects. For information on how to do this, see [“Storing NSColor in User Defaults”](#) (page 21); although this article focuses on `NSColor` objects, the procedure can be applied to any object that can be archived.

`NSUserDefaults` does not currently support per-host preferences. To do this, you must use *Preferences Utilities Reference*. However, `NSUserDefaults` correctly reads per-host preferences, so you can safely mix `CFPreferences` code with `NSUserDefaults`.

Who Should Read This Document

You should read this document to understand the programmatic interface for interacting with the Mac OS X user defaults system using Cocoa.

Organization of This Document

This programming topic contains the following articles:

- [“Defaults Domains”](#) (page 9) describes the various defaults domain groupings.
- [“Using NSUserDefaults”](#) (page 13) describes how to create and save user defaults.
- [User Defaults and Bindings](#) (page 17) describes the role of `NSUserDefaultsController` and how it works with `NSUserDefaults`.
- [Storing NSColor in User Defaults](#) (page 21) describes how to store colors in an application's user defaults.

Defaults Domains

Defaults are grouped in domains. For example, there's a domain for application-specific defaults and another for system-wide defaults that apply to all applications. All defaults are stored and accessed per user. Defaults that affect all users are not provided for.

Domains

Defaults are grouped in domains. Each domain has a name by which it's identified and stores defaults as key-value pairs in an `NSDictionary` object. Each default is made up of three components:

- The domain in which the default is stored
- The name by which the default is identified (an `NSString` object)
- The default's value, which can be any property-list object (`NSData`, `NSString`, `NSNumber`, `NSDate`, `NSArray`, or `NSDictionary`)

A domain is either persistent or volatile. Persistent domains are permanent and last past the life of the user defaults object. Persistent domains are stored in a user's defaults database. If you use a user defaults object (an instance of `NSUserDefaults` or `NSUserDefaultsController`) to make a change to a default in a persistent domain, the changes are saved in the user's defaults database automatically. On the other hand, volatile domains last only as long as the user defaults object exists; they aren't saved in the user's defaults database. The standard domains are:

Domain	State
<code>NSArgumentDomain</code>	volatile
Application (Identified by the application's identifier)	persistent
<code>NSGlobalDomain</code>	persistent
Languages (Identified by the language names)	volatile
<code>NSRegistrationDomain</code>	volatile

A search for the value of a given default proceeds through the domains in an `NSUserDefaults` object's search list. Only domains in the search list are searched. The standard search list contains the domains from the table above, in the order listed. A search ends when the default is found. Thus, if multiple domains contain the same default, only the domain nearest the beginning of the search list provides the default's value.

The following sections describe the purpose of each of the domains.

Registration Domain

The registration domain is a set of application-provided defaults that are used unless a user overrides them (the “default defaults” or “factory settings”). For example, the first time you run Xcode, there isn’t an `IndexOnOpen` value saved in your defaults database. Consequently, Xcode registers a default value for `IndexOnOpen` in the `NSRegistrationDomain` as a “catch all” value. Xcode can thereafter assume that an `NSUserDefaults` object always has a value to return for the default, simplifying the use of user defaults.

You set `NSRegistrationDomain` defaults programmatically with the method `registerDefaults:`.

Using NSUserDefaults

Typically, you use the `NSUserDefaults` class by invoking the `standardUserDefaults` class method to get an `NSUserDefaults` object. This method returns a global `NSUserDefaults` object with a search list already initialized. Use the `objectForKey:` and `setObject:forKey:` methods to get and set default values. Note that a default's value can be only property list objects: `NSData`, `NSString`, `NSNumber`, `NSDate`, `NSArray`, or `NSDictionary` (for more on property lists, see *Property List Programming Guide*).

The following sections discuss various aspects of using the `NSUserDefaults` class.

Setting a Default in the NSRegistrationDomain

An application can set values for all its defaults in the `NSRegistrationDomain`. If users specify a different preference in their defaults database, the users' preferences override the values from the `NSRegistrationDomain`. An `NSUserDefaults` object only uses values from the `NSRegistrationDomain` when a user hasn't specified a different preference. So, you need to decide whether or not your application should delete backup files by default.

To register the application's default behavior, you get the application's shared instance of `NSUserDefaults` and register default values with it. A good place to do this is in the `initialize` method of the class that uses the default. The following example registers the value "YES" for the default named "DeleteBackup".

```
+ (void)initialize{  
  
    NSUserDefaults *defaults = [NSUserDefaults standardUserDefaults];  
    NSDictionary *appDefaults = [NSDictionary  
        dictionaryWithObject:@"YES" forKey:@"DeleteBackup"];  
  
    [defaults registerDefaults:appDefaults];  
}
```

The `initialize` message is sent to each class before it receives any other message, ensuring that the application's defaults are set before the application needs to read them.

Allowing the User to Specify a Different Default Behavior

To allow users to specify a different default behavior for deleting backups, you must provide an interface in which they can express their preference. Most applications provide a Preferences panel for this purpose. When your application detects that a user has specified a new preference, it should save it in the shared instance of `NSUserDefaults`.

For example, assume that your application has an instance variable called *deleteBackupButton* that is an outlet to an `NSButton`, and that users toggle this button's state to indicate whether or not the application should delete its backup files. You could use the following code to update the user's value for the `DeleteBackup` default:

```
if ([deleteBackupButton state]) {
    // The user wants to delete backup files.
    [[NSUserDefaults standardUserDefaults]
     setObject:@"YES" forKey:@"DeleteBackup"];
} else {
    // The user doesn't want to delete backup files.
    [[NSUserDefaults standardUserDefaults]
     setObject:@"NO" forKey:@"DeleteBackup"];
}
```

After determining the button's state, `setObject:forKey:` is used to set the value of the specified default in the application domain.

You don't have to use a Preferences panel to manage all defaults. For example, an `NSWindow` object can store its placement in the user defaults system, so that it appears in the same location the next time the user starts the application.

Using the Default Value to Determine Behavior

To find out whether or not to delete a backup file, you can use the following statement:

```
[[NSUserDefaults standardUserDefaults] boolForKey:@"DeleteBackup"];
```

As a convenience, `NSUserDefaults` provides `boolForKey:`, `floatForKey:`, and so on. Recall that a default's value can be only an `NSData`, `NSString`, `NSNumber`, `NSDate`, `NSArray`, or `NSDictionary`. `boolForKey:` and similarly named methods attempt to get the value for the specified default and interpret it as a different data type.

Synchronizing an NSUserDefaults Object with the Defaults Database

Since other applications (and the user) can write to a defaults database, the database and an `NSUserDefaults` object might not agree on the value of a given default at all times.

You can update the defaults database with an `NSUserDefaults` object's new values and update the `NSUserDefaults` object with any changes that have been made to the database using the `synchronize` method.

On Mac OS X v10.5 and later, in applications in which a run-loop is present, `synchronize` is automatically invoked at periodic intervals. Consequently, you might synchronize before exiting a process, but otherwise you shouldn't need to.

Using CFPreferences

Since CFPreferences currently has some features not yet supported in NSUserDefaults, you may want to use CFPreferences to perform some of your defaults operations. For example, CFPreferences supports per-host preferences, and NSUserDefaults currently does not.

For more information about CFPreferences see the Core Foundation Programming Topic *Preferences Programming Topics for Core Foundation*.

User Defaults and Bindings

Many applications provide a preferences window that allows the user to customize an application's settings. `NSUserDefaultsController` provides a layer on top of `NSUserDefaults` and allows you to bind attributes of user interface items to the corresponding key in an application's user defaults.

What Is `NSUserDefaultsController`?

`NSUserDefaultsController` is a concrete subclass of `NSController` that implements a bindings-compatible interface to `NSUserDefaults`. Properties of an instance of `NSUserDefaultsController` are bound to user interface items to access and modify values stored using `NSUserDefaults`.

`NSUserDefaultsController` is typically used when implementing your application's preference window interface, or when you can bind a user interface item directly to a default value. `NSUserDefaults` remains the primary programmatic interface to your application's default values for the rest of your application.

By default `NSUserDefaultsController` immediately applies any changes made to its properties. It can be configured so that changes are not applied until it receives an `applyChanges:` message, allowing the preferences dialog to support an Apply button. `NSUserDefaultsController` also supports reverting to the last applied set of values, using the `revert:` method.

`NSUserDefaultsController` also allows you to provide a dictionary of factory defaults that can be used to reset the user configurable values for your application, usually done in response to a user clicking a Revert to Factory Defaults button.

The Shared User Defaults Controller

`NSUserDefaultsController` provides a shared instance of itself via the class method `sharedUserDefaultsController`. This shared instance uses the `NSUserDefaults` instance returned by the method `standardUserDefaults` as its model, has no initial values, and immediately applies changes made through its bindings.

Care must be taken that changes to the settings of the shared user defaults controller are made before any nib files containing bindings to the shared controller are loaded. To ensure that these changes are made before any nib files are loaded, they are often implemented in the `initialize` class method of the application delegate, or in your preferences window controller.

Binding to the Shared User Defaults Controller

The shared `NSUserDefaultsController` is always available as a bindable controller in the Bindings Info window in Interface Builder. When establishing a binding to a user default, set the Controller Key to `values`, and the Model Key Path to the key of the default.

Creating bindings programmatically requires that you retrieve the shared user defaults controller using the `NSUserDefaultsController` class method `sharedUserDefaultsController`. You then provide that object as the *observableController* to the `bind:toObject:withKeyPath:options:` method.

The example in Listing 1 establishes a binding between an `NSTextField` (`theTextField`) and the `userName` default using the shared user defaults controller.

Listing 1 Binding the `userName` defaults key to an `NSTextField` programmatically

```
[theTextField bind:@"value"
                toObject:[NSUserDefaultsController sharedUserDefaultsController]
                withKeyPath:@"values.userName"
                options:[NSDictionary dictionaryWithObject:[NSNumber
numberWithBool:YES]
                    forKey:@"NSContinuouslyUpdatesValue"]];
```

initialValues Versus `NSUserDefaults` `registerDefaults:`

The initial values dictionary allows you to provide a means to reset the user configurable default values to the factory defaults. Typically these values represent a subset of the defaults that your application registers using the `NSUserDefaults` method `registerDefaults:`.

Calling the `NSUserDefaultsController` method `setInitialValues:` should not be considered a replacement for registering your application's preference defaults using `NSUserDefaults`'s `registerDefaults:` method.

The example in Listing 2 loads the default values from a file in the application wrapper, registers those values with `NSUserDefaults`, and then registers a subset of the values as the initial values of the shared user defaults controller. The `setupDefaults` method would be called from your application delegate's `initialize` class method.

Listing 2 Changing the initial values of the `sharedUserDefaultsController` instance

```
+ (void)setupDefaults
{
    NSString *userDefaultsValuesPath;
    NSDictionary *userDefaultsValuesDict;
    NSDictionary *initialValuesDict;
    NSArray *resettableUserDefaultsKeys;

    // load the default values for the user defaults
    userDefaultsValuesPath=[[NSBundle mainBundle] pathForResource:@"UserDefaults"
                                                ofType:@"plist"];
    userDefaultsValuesDict=[NSDictionary
dictionaryWithContentsOfFile:userDefaultsValuesPath];
```

```

    // set them in the standard user defaults
    [[NSUserDefaults standardUserDefaults]
registerDefaults:userDefaultsValuesDict];

    // if your application supports resetting a subset of the defaults to
    // factory values, you should set those values
    // in the shared user defaults controller
    resettableUserDefaultsKeys=[NSArray
arrayWithObjects:@"Value1",@"Value2",@"Value3",nil];
    initialValuesDict=[userDefaultsValuesDict
dictionaryWithValuesForKeys:resettableUserDefaultsKeys];

    // Set the initial values in the shared user defaults controller
    [[NSUserDefaultsController sharedUserDefaultsController]
setInitialValues:initialValuesDict];
}

```

Search Order for Defaults Values

When a method that is key-value coding compliant attempts to get a value for a key from an `NSUserDefaultsController` the following search pattern is used:

1. The value of a corresponding key in `values`
2. The value of a corresponding key in the `NSUserDefaults` instance returned by the `NSUserDefaultsController` method `defaults`.
3. The value of a corresponding key in the initial values dictionary

If no corresponding value is found, `nil` is returned.

The search path is somewhat different when you retrieve the result directly from the `NSUserDefaults` instance associated with the `NSUserDefaultsController`. In that case, any unapplied values in the `NSUserDefaultsController`, as well as the values in the initial values dictionary are ignored.

Programmatically Accessing NSUserDefaultsController Values

Although `NSUserDefaults` should remain your primary programmatic interface to the user defaults, some circumstances require that you get and set the default values contained in an `NSUserDefaultsController` instance directly. For example, when implementing portions of your preferences window that don't directly interact with an existing binding, such as setting a font or choosing a directory path.

The `NSUserDefaultsController` method `values` returns a KVC-compliant object that is used to access these default values. To get the value of a default, use the `valueForKey:` method.

```
[[theDefaultsController values] valueForKey:@"userName"];
```

Similarly, to set a value for a default, use `setValue:forKey:`.

```
[[theDefaultsController values] setValue:newUserName  
    forKey:@"userName"];
```

The `NSUserDefaultsController` automatically provides notification of the value change to any established bindings for that key path.

Storing NSColor in User Defaults

It is often desirable to store the value of an NSColor instance in an application's user defaults. However, NSUserDefaults only supports the storage of objects that can be represented in an property list.

The solution is to use object archiving to write the NSColor instance data to an NSData instance and then store that as the default as shown in Listing 1. This is often done in an application life-cycle exit point such as the `applicationShouldTerminate:delegation` method.

Listing 1 Storing an NSColor instance in user defaults

```
// store the value in aColor in user defaults
// as the value for key aKey
NSData *theData=[NSArchiver archivedDataWithRootObject:aColor];
[[NSUserDefaults standardUserDefaults] setObject:theData forKey:aKey];
```

To read the value back from NSUserDefaults an application retrieves the NSData instance for the required key and unarchives the NSColor instance. The example in Listing 2 demonstrates retrieving the color. This is often done in an application life-cycle entry point such as `awakeFromNib`.

Listing 2 Retrieving an NSColor instance from user defaults

```
// read the value of the user default with key aKey
// and return it in aColor
NSColor * aColor =nil;
NSData *theData=[[NSUserDefaults standardUserDefaults] dataForKey:aKey];
if (theData != nil)
    aColor =(NSColor *)[NSUnarchiver unarchiveObjectWithData:theData];
```

Extending NSUserDefaults to support NSColor

It's possible to take advantage of the support for categories in Objective-C to add NSColor support to the existing NSUserDefaults class, without subclassing.

The example code in Listing 3 and Listing 4 shows an implementation of such a category. The method `setColor:forKey:` archives the specified color to an NSData instance and stores it in the user defaults using the specified key. The method `colorForKey:` retrieves the NSData instance specified by the key, and then unarchives an instance of NSColor using the data.

Listing 3 Contents of NSUserDefaults myColorSupport category .h file

```
#import <Foundation/Foundation.h>

@interface NSUserDefaults(myColorSupport)
- (void)setColor:(NSColor *)aColor forKey:(NSString *)aKey;
- (NSColor *)colorForKey:(NSString *)aKey;
@end
```

Listing 4 Contents of NSUserDefaults myColorSupport category .m file

```
#import "NSUserDefaults+myColorSupport.h"

@implementation NSUserDefaults(myColorSupport)

- (void)setColor:(NSColor *)aColor forKey:(NSString *)aKey
{
    NSData *theData=[NSArchiver archivedDataWithRootObject:aColor];
    [self setObject:theData forKey:aKey];
}

- (NSColor *)colorForKey:(NSString *)aKey
{
    NSColor *theColor=nil;
    NSData *theData=[self dataForKey:aKey];
    if (theData != nil)
        theColor=(NSColor *)[NSUnarchiver unarchiveObjectWithData:theData];
    return theColor;
}

@end
```

Important: There is some risk in implementing a category with method names that are common enough that Apple could use them in the future. An alternative would be to use prefixes that Apple would not use, for example, `my_colorForKey:`.

Establishing Bindings Between Colors and User Defaults

You can easily establish a binding between a user-interface object whose value is a color (that is, an `NSColor` object) and user defaults. When the user chooses a color preference for something in an application, the binding preserves and restores the preference across successive launches of the application.

To effect the binding, use a ready-made instance of the `NSUnarchiveFromDataTransformerName` value transformer in Interface Builder. An `NSValueTransformer` object converts an object value typically in two directions: between the form in which it is displayed and the form in which it is stored. The `NSUnarchiveFromDataTransformerName` value transformer works by archiving an `NSColor` object in an `NSData` object and then, on the other side of the binding, unarchiving the color object from the data object. For this value transformation to work, the archived object must implement the `NSCoding` protocol using sequential archiving—which `NSColor` does.

An `NSColorWell` instance is a user-interface object whose value is a `NSColor` object. You can drag the color-well object from the Controls palette of Interface Builder onto a view. To establish the binding between this object and user defaults, complete the following steps:

1. With the color well still selected, open the Bindings pane of the Inspector and expose the **value** binding.
2. From the “Bind to” pop-up menu choose Shared User Defaults.

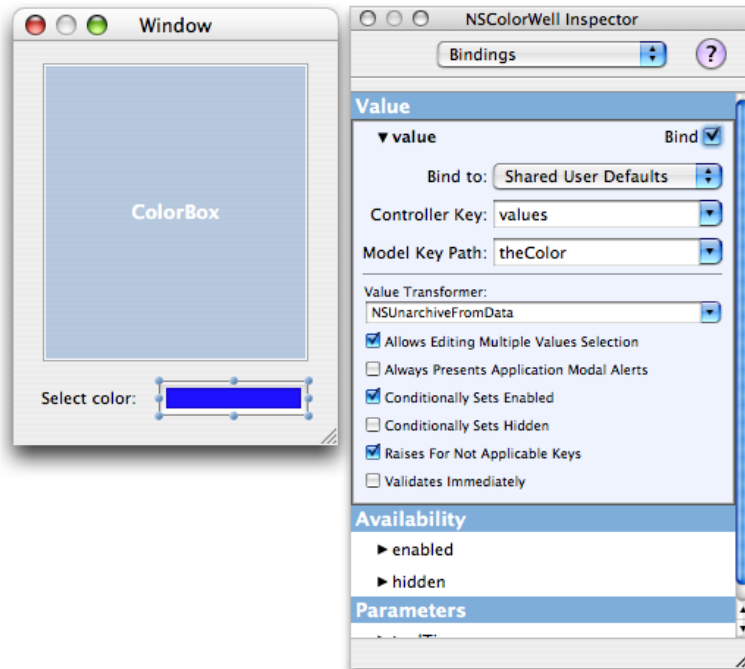
This action adds an instance of `NSUserDefaultsController` (“Shared Defaults”) to the nib file window.

3. Keep the Controller Key field as `values` but in the Model Key Path field specify a name under which to save the color object (`theColor`, in this example).

- From the Value Transformer combo box select (or enter) `NSUnarchiveFromData`.

When you're finished, your setup in Interface Builder should look similar to that in Figure 1.

Figure 1 Establishing a binding between an `NSColor` value and user defaults



If at this point you save your nib file and build your project, you can launch the application, change the color in the color well, quit the application, and then relaunch. The color in the color well is what it was when you last changed it.

Although the foregoing procedure establishes a binding between an `NSColor` value of a view and user defaults, it does not propagate changes in that value to other objects in the application. You can do that by explicitly setting the color to the restored default when the application launches and, thereafter, by having the first responder handle the `changeColor:` message whenever the user changes the color. But you can also use bindings so that any change in color value is propagated both to user defaults and applied to a custom view in the application. This requires you to complete the following steps:

- Declare an `NSColor` property of the custom view class.
- Expose this property as a binding (`exposeBinding:`); do this in the class method `initialize`.
- In the setter method for the property, send `setNeedsDisplay:` (or `setNeedsDisplayInRect:`) to `self` after the new color is retained; this forces the view to redraw itself in the new color.
- Define a controller object that acts as application delegate. When the application finishes launching, this object establishes a binding between the custom view's `NSColor` property and the property of the `NSUserDefaultsController` object bound to the color well.

See Listing 5 for an example of this final step.

Listing 5 Establishing a binding between an NSColor property and NSUserDefaultsController

```
@implementation AppDelegate
- (void)applicationDidFinishLaunching:(NSNotification *)aNotification
{
    [theColorBox bind:@"backgroundColor" toObject:[NSUserDefaultsController
sharedUserDefaultsController]
        withKeyPath:@"values.theColor"
        options:[NSDictionary dictionaryWithObject:[NSUnarchiveFromDataTransformerName
forKey:NSValueTransformerNameBindingOption]]];
}
@end
```

Document Revision History

This table describes the changes to *User Defaults Programming Topics for Cocoa*.

Date	Notes
2007-10-31	Updated information about periodic autosave behavior.
2007-01-08	Corrected typos and capitalization mistakes.
2006-11-07	Added overview of procedure for storing non-property-list objects in user defaults, and linked to related article.
2006-09-05	Made small additions to the content. Changed title from "User Defaults."
	Expanded explanation of user defaults in introduction.
	Noted requirement that a default's value must be a property list value at the beginning of the Using Defaults (page 13) article.
2005-08-11	Included an article that describes the use of <code>NSUserDefaultsController</code> . Corrected minor typographical errors.
2004-02-03	Added article Storing NSColor in User Defaults (page 21).
2003-05-09	Linked to the Core Foundation Preferences Programming Topic, which was also incorrectly named.
2003-01-13	Added link in limitations area to <code>CFPreferences</code> . Corrected class name in Defaults Domains Concept.
2002-11-12	Revision history was added to existing topic. It will be used to record changes to the content of the topic.

