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# Xcode User Default Reference

Tools & Languages: IDEs



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# Introduction

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The Mac OS X user defaults system allows you to specify the values of program settings through your shell command editor instead of the program's user interface (such as in the Preferences window). This facility allows program developers to give users access to features in early development or that may require particular knowledge to use properly. You use the `defaults` command to access these settings. The Xcode application has several of these settings, which are also known as *expert preferences* or *expert settings*.

This document describes the Xcode user defaults.

You should read this document when you need to customize an aspect of Xcode behavior in a way that the Xcode Preferences window doesn't facilitate.

## Organization of This Document

This document contains one chapter, "[Xcode User Defaults](#)" (page 7), which describes the Xcode user defaults.

## Software Version

The content of this document applies the software described in this table:

Application	Version
Xcode	3.1

## See Also

Before using the Xcode user defaults to modify Xcode's behavior, you should consult the following documents to find out whether Xcode provides a mechanism to accomplish the behavior you want.

- *Xcode Project Management Guide*. Explains how to use the Xcode application to develop software on Mac OS X.
- *Xcode Build Setting Reference*. Describes the build settings used in the Xcode build system to compile source code and produce binary files.



# Xcode User Defaults

## Xcode User Default Overview

Xcode lets you customize its behavior through the Xcode Preferences window, which includes settings to handle the most common customizations. However, Xcode also lets you perform customizations to settings that are not present in the user interface. Xcode uses user defaults to let you change the value of these settings. **User defaults** is a Mac OS X subsystem that lets you customize the behavior of applications using the `defaults` command.

The `defaults` command takes a command and a domain. The user domain for Xcode is `com.apple.Xcode`. The most-used commands are `write` (to set the value of a user default) and `read` (to get the value of a user default). Here's the format of the command invocation to set the value of an Xcode user default:

```
> defaults write com.apple.Xcode <key> <value>
```

- `key`: The name of the Xcode user default to set.
- `value`: The new value for the user default.

This is the invocation used to get the value of a user default:

```
> defaults read com.apple.Xcode <key>
```

The user-defaults system lets you override the built-in values of settings used in Xcode. The built-in default value of a setting is encoded in the application, not in the Xcode user-defaults domain. Therefore, when a particular setting is not present in the Xcode user-defaults domain, its default value may vary depending on the Xcode release you're using.

The Xcode user-defaults domain applies to all instances of Xcode installed on your computer. Therefore, when setting user-default values, you must ensure that all the releases of Xcode you're using support that user-default and its new value.

To learn about using multiple Xcode releases in one computer, see *Xcode Installation Guide*.

The following sections list and describe the Xcode user defaults.

## General User Defaults

### NSDragAndDropTextDelay

<b>Description</b>	Specifies the period (in milliseconds) after text is selected that a click-and-drag event on the selected text is processed as the beginning of a drag-and-drop operation.
--------------------	--

<b>Value</b>	A positive value defines the drag-and-drop period. A negative value or zero deactivates text drag and drop.
--------------	--

## NSRecentDocumentsLimit

---

<b>Description</b>	Specifies the maximum number of items to show in the File > Recent Projects menu.
<b>Value</b>	Positive integer. Default: 10.

## PBExtraPlugInFolders

---

<b>Description</b>	Specifies extra paths in which to look for Xcode plug-ins beyond the standard <code>&lt;domain&gt;/Library/Application Support/Apple/Developer Tools/Plug-ins</code> directories.
<b>Value</b>	Set of strings. Default: None.

## PBXCustomTemplateMacroDefinitions

---

<b>Description</b>	Dictionary of extra macros for use in project and file templates.
<b>Keys</b>	ORGANIZATIONNAME: The name of your organization. Default: <code>__MyCompanyName__</code> .

## PBXDontWarnIfProjectSaveFails

---

<b>Description</b>	Specifies whether Xcode displays a warning when it is unable to save a project package. Useful for developers using an SCM system that makes project packages nonwritable.
<b>Value</b>	YES to display the warning dialog. Default: NO.

## XCAutoClearRunDebugStdIOLogs

---

<b>Description</b>	Specifies whether output in the Console window is cleared after each session.
<b>Value</b>	YES to clear the console automatically. Default: NO.



## XCOpenProjectFilesInsideFolders

---

<b>Description</b>	Specifies whether Xcode opens the first Xcode project inside the selected folder in an Open panel when the user clicks the Open button. Using this feature may cause problems with keyboard-based navigation of Open panels.
<b>Value</b>	YES to automatically open the first Xcode project inside an opened folder. Default: NO.

## Source Code Editing User Defaults

### Encodings

---

<b>Description</b>	Specifies the list of encodings shown in Encodings menus. This list uses the same format as the encodings list in the TextEdit user defaults. You can copy that list from <code>~/Library/Preferences/com.apple.TextEdit.plist</code> to <code>~/Library/Preferences/com.apple.Xcode.plist</code> using a text editor.
<b>Value</b>	Array. Default: None.

### PBXBeepOnNoMatchingBrace

---

<b>Description</b>	Specifies whether the text editor beeps when a closing brace (}) is typed or double-clicked without a corresponding opening brace ({).
<b>Value</b>	YES to activate beeping. Default: NO.

### PBXEmacsPath

---

<b>Description</b>	Specifies the path to the emacs binary. Use only when you want to use a custom-built Emacs editor.
<b>Value</b>	Pathname. Default: <code>&lt;Xcode&gt;/usr/bin/emacs</code> .

### PBXPipeShellPath

---

<b>Description</b>	Specifies the path to the shell editor to use in Worksheet windows (which combine a full-featured shell and a text editor).
<b>Value</b>	Pathname. Default: <code>/bin/sh</code> .

## PBXXEmacsPath

---

<b>Description</b>	Specifies the path to the <code>xemacs</code> binary.
<b>Value</b>	Pathname. Default: <code>&lt;Xcode&gt;/usr/bin/xemacs</code> .

## PBXMethodPopupIncludeClassDeclarationsDefault

---

<b>Description</b>	Specifies whether the declarations menu in the text editor shows class declarations.
<b>Value</b>	YES to show class declarations. Default: YES.

## PBXMethodPopupIncludeClassDefinitionsDefault

---

<b>Description</b>	Specifies whether the declarations menu in the text editor shows class definitions.
<b>Value</b>	YES to show class definitions. Default: YES.

## PBXMethodPopupIncludeDefinesDefault

---

<b>Description</b>	Specifies whether the declarations menu in the text editor shows <code>#define</code> statements.
<b>Value</b>	YES to show <code>#define</code> statements. Default: YES.

## PBXMethodPopupIncludeFunctionDeclarationsDefault

---

<b>Description</b>	Specifies whether the declarations menu in the text editor shows function declarations.
<b>Value</b>	YES to show function declarations. Default: YES.

## PBXMethodPopupIncludeFunctionDefinitionsDefault

---

<b>Description</b>	Specifies whether the declarations menu in the text editor shows function definitions.
<b>Value</b>	YES to show function definitions. Default: YES.

## PBXMethodPopupIncludeMethodDeclarationsDefault

---

<b>Description</b>	Specifies whether the declarations menu in the text editor shows method declarations.
<b>Value</b>	YES to show method declarations. Default: YES.

## PBXMethodPopupIncludeMethodDefinitionsDefault

---

<b>Description</b>	Specifies whether the declarations menu in the text editor shows method definitions.
<b>Value</b>	YES to show method definitions. Default: YES.

## PBXMethodPopupIncludeTypesDefault

---

<b>Description</b>	Specifies whether the declarations menu in the text editor shows type definitions.
<b>Value</b>	YES to show type definitions. Default: YES.

## PBXMethodPopupIncludeMarksDefault

---

<b>Description</b>	Specifies whether the declarations menu in the text editor shows <code>??&lt;mark_label&gt;??</code> marks.
<b>Value</b>	YES to show marks. Default: YES.

## PBXMethodPopupIncludeWarningsDefault

---

<b>Description</b>	Specifies whether the declarations menu in the text editor shows <code>??&lt;warning_label&gt;??</code> warnings.
<b>Value</b>	YES to show warnings. Default: NO.

## PBXPreservePosixPermissionsOnSave

---

<b>Description</b>	Specifies whether Xcode attempts to preserve POSIX file permissions when saving a file.
<b>Value</b>	YES to attempt permission preservation. Default: YES.

## XCTScrollToEndOfMatchingBrace

---

<b>Description</b>	Specifies whether double-clicking a quotation mark, brace, or parenthesis causes the text editor to scroll to the opposite end of the resulting selection.
<b>Value</b>	YES to scroll on brace double click. Default: YES.

## PBXShowMatchingBrace

---

<b>Description</b>	Specifies whether the text editor highlights the corresponding scope delimiter (parentheses, bracket, or brace) as one is typed.
<b>Value</b>	YES to highlight corresponding delimiter after typing. Default: YES.

## XCCodeSenseAllowAutoCompletionInPlainFiles

---

<b>Description</b>	Specifies whether the text editor uses code completion in plain text, nonsource files. When active in these files, code completion processes only the words present in the file, along with language keywords and text macros defined for the file's type.
<b>Value</b>	YES to activate code completion in nonsource files. Default: NO.

## XCSelectToInsideMatchingQuotes

---

<b>Description</b>	Specifies whether the text editor selects text inside quotation marks when double-clicking quotation marks ( ' or " ).
<b>Prerequisite</b>	Selection to matching brace is active (Xcode Preferences > Text Editing).
<b>Value</b>	YES to select quoted text on quotation-mark double click. Default: YES.

## XCTShowUndoPastSaveWarning

---

<b>Description</b>	Specifies whether Xcode displays a warning when an undo operation on an open file would take it to a state prior to the file's last save operation.
<b>Value</b>	YES to warn about past-save undo operations. Default: YES.

## XCSmartInsertDeleteEnabled

<b>Description</b>	Specifies whether the text editor manages spaces when inserting and deleting spaces around words when text is inserted or deleted.
<b>Value</b>	YES to automanage spaces after insert or delete operations. Default: NO.

## Source Code Formatting User Defaults

### PBXIndentOnPaste

<b>Description</b>	Specifies whether the text editor reindents source code that is pasted when syntax-aware indenting (Xcode Preferences > Indentation) is active.
<b>Value</b>	YES to reindent pasted code. Default: YES.

### XCCodeSenseFormattingOptions

This user default is a dictionary that specifies the whitespace Xcode applies in code completion and text-macro expansion.

To specify or add `XCCodeSenseFormattingOptions` keys to the Xcode user defaults database, use the `-dict` and `-dict-add` options of the `defaults` command. For example:

```
> defaults write com.apple.Xcode XCCodeSenseFormattingOptions -dict
PreExpressionsSpacing " " PreCommaSpacing " "
```

The following table describes the `XCCodeSenseFormattingOptions` keys you can define to override the default values.

Key	Value
<b>PreExpressionsSpacing</b>	Whitespace between an <code>if</code> , <code>for</code> , and <code>while</code> keyword and the opening parenthesis. Default: " ".
<b>InExpressionsSpacing</b>	Whitespace inside a parenthesized expression—after the opening parenthesis and the closing parenthesis. Default: " ".
<b>PreFunctionArgsSpacing</b>	Whitespace between a function name and the opening parenthesis. Default: " ".

Key	Value
<b>InFunctionArgsSpacing</b>	Whitespace inside a parenthesized function argument list—after the opening parenthesis and the closing parenthesis. Default value: " ".
<b>PreCommaSpacing</b>	Whitespace before a comma inside a function argument list. Default: " ".
<b>PostCommaSpacing</b>	Whitespace after a comma inside a function argument list. Default: " ".
<b>PreMethodTypeSpacing</b>	Whitespace before the parenthesized return type in an Objective-C method declaration. Default: " ".
<b>PreMethodDeclSpacing</b>	Whitespace between the parenthesized return type and the method name in an Objective-C method declaration. Default: " ".
<b>InMessageSpacing</b>	Whitespace inside an Objective-C message expression—after the opening bracket and before the closing bracket. Default: " ".
<b>PreColonSpacing</b>	Whitespace before a colon in an Objective-C method name or message expression. Default: " ".
<b>PostColonSpacing</b>	Whitespace after a colon in an Objective-C method name or message expression. Default: " ".
<b>MessageArgSpacing</b>	Whitespace between the parenthesized type and argument name in an Objective-C method declaration. Default: " ".
<b>CaseStatementSpacing</b>	Relative indentation of a case keyword inside a switch block. A tab ('\t') character indents by the tab indentation width. Default: "\t".
<b>BlockSeparator</b>	Whitespace after the parenthesized expression of an <code>if</code> , <code>for</code> , or <code>while</code> statement and its opening brace. Default: " ".
<b>PostBlockSeparator</b>	Whitespace after the closing brace of a block. Default: "\n".
<b>FunctionBlockSeparator</b>	Whitespace after a method or function name and argument-list declarations and its body. Default: "\n".

## XCColorUnknownLanguages

---

<b>Description</b>	<p>Specifies whether the text editor performs syntax coloring on files containing source code in languages unknown to Xcode.</p> <p>Syntax coloring on unknown languages follows these rules:</p> <ul style="list-style-type: none"> <li>■ Lines beginning with <code>#</code> are treated as comment lines.</li> <li>■ Text within <code>/*</code> and <code>*/</code> is treated as a comment.</li> <li>■ URLs inside comments are behave as hyperlinks.</li> <li>■ Text within double quotation marks (<code>"</code>) is treated as a string.</li> </ul>
<b>Value</b>	YES to perform syntax coloring on unknown languages. Default: NO.

## XCMatchIndentWithLineAbove

---

<b>Description</b>	<p>Specifies whether the text editor aligns new lines (after pressing Return) with the previous line when syntax-aware indenting (Xcode Preferences &gt; Indentation) is unavailable for the current file, either because it's inactive or because the type of the current file doesn't support it.</p>
<b>Value</b>	YES to align new lines with their predecessors. Default: YES.

## XCShowControlCharacters

---

<b>Description</b>	<p>Specifies whether the text editor identifies control characters using an inverted question mark (<code>?</code>).</p>
<b>Value</b>	YES to identify control characters. Default: YES.

## XCShowNonBreakingSpace

---

<b>Description</b>	<p>Specifies whether the text editor identifies nonbreaking space characters (Unicode <code>0xA0</code>) as a middle dot (<code>•</code>).</p>
<b>Value</b>	YES to identify nonbreaking space characters. Default: YES.

## Source Code Indexing User Defaults

### XCCodeSenseIndexPath

<b>Description</b>	Specifies the location at which to save the source code index, instead of the standard location.
<b>Value</b>	Pathname (absolute or relative to the project directory). Default: OBJROOT/<project_name>.pbxindex.
<b>See</b>	“OBJROOT (Intermediate Build Files Path)” in <i>Xcode Build Setting Reference</i> .

## Building User Defaults

### BuildSystemCacheSizeInMegabytes

<b>Description</b>	Specifies the desired maximum size (in megabytes) of the precompiled header (PCH) cache. Xcode obtains the size of the cache on launch and at the end of each build. If the cache size is greater than the desired maximum, Xcode attempts to bring the cache size below the maximum by removing the oldest precompiled-header files from the cache.
<b>Value</b>	Positive integer. Default: 1024.
<b>See</b>	“ <a href="#">BuildSystemCacheMinimumRemovalAgeInHours</a> ” (page 16)

### BuildSystemCacheMinimumRemovalAgeInHours

<b>Description</b>	Specifies the minimum age (in hours) a precompiled-header file must be in order for it to be a candidate for removal during a cache-size reduction operation.
<b>Value</b>	Positive integer. Default: 24.
<b>See</b>	“ <a href="#">BuildSystemCacheSizeInMegabytes</a> ” (page 16)

### PBXNumberOfParallelBuildSubtasks

<b>Description</b>	Specifies the desired number of parallel tasks Xcode uses during builds.
<b>Value</b>	Positive integer. Default: Number of CPU cores on the build host.



## UsePerConfigurationBuildLocations

---

<b>Description</b>	Specifies whether the built products and intermediate build files are grouped by build configuration.
<b>Value</b>	YES to group build files by build configuration. Default: YES.

## PredictiveCompilationDelay

---

<b>Description</b>	Specifies the period (in seconds) to wait after a source file is edited before Xcode starts a predictive compile.
<b>Prerequisite</b>	Predictive compilation is active (Xcode Preferences > Building).
<b>Value</b>	Positive integer greater than 10. Default: 30.
<b>Important</b>	When specified, Xcode enforces a minimum value of 10.

## PBXBuildFailureSound

---

<b>Description</b>	Identifies the build failure sound.
<b>Value</b>	Pathname to a sound file. Default: None.

## PBXBuildSuccessSound

---

<b>Description</b>	Identifies the build success sound. Pathname to a sound file.
<b>Value</b>	Pathname to a sound file. Default: None.

## Shared Workgroup Builds User Defaults

### DistributedBuildsLogLevel

---

<b>Description</b>	Specifies the log level of the shared-workgroup-build manager.
<b>Value</b>	0: No logging. 1: Partial logging. 2: Full logging. Default: 0.

## XCDistributedBuildsVerboseLogging

---

<b>Description</b>	Specifies whether shared workgroup builds produce verbose logging.
<b>Value</b>	YES to generate verbose shared-workgroup-builds logging. Default: NO.

## XCMaxNumberOfDistributedTasks

---

<b>Description</b>	Specifies the maximum number of concurrent shared-workgroup-build tasks.
<b>Value</b>	Positive integer. Default: 25.

## Debugging User Defaults

### PBXGDBPath

---

<b>Description</b>	Identifies the <code>gdb</code> binary Xcode uses for debugging.
<b>Value</b>	Absolute pathname. Default: <code>&lt;Xcode&gt;/usr/bin/gdb</code> for local debugging and <code>/usr/bin/ssh</code> for remote debugging.

### PBXGDBDebuggerLogToFile

---

<b>Description</b>	Specifies whether Xcode logs its communications with GDB to a file. This file can be sent to Apple when reporting problems with the debugger.
<b>Value</b>	YES to log interactions. Default: NO.
<b>Important</b>	Logging Xcode/GDB interactions reduces the debugger's stepping performance.
<b>See</b>	<a href="#">"PBXGDBDebuggerLogFileName"</a> (page 18).

### PBXGDBDebuggerLogFileName

---

<b>Description</b>	Specifies the file to which Xcode/GDB communication is logged when Xcode/GDB-communication logging is active. This file is rewritten for every debugging session.
<b>Value</b>	Absolute pathname. Default: <code>/var/tmp/folders.&lt;uid&gt;/Temporary Items/XCGDB-&lt;program_name&gt;-&lt;Xcode_pid&gt;</code> .

<b>See</b>	<a href="#">“PBXGDBDebuggerLogToFile”</a> (page 18).
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## SCM and Snapshots User Defaults

### XCSnapshotDiskImagePath

---

<b>Description</b>	Specifies the location of the snapshot repository.
<b>Value</b>	Pathname. <b>Default:</b> <code>~/Library/Application Support/Developer/Shared/SnapshotRepository.sparseimage</code> .

### XCSCMLogSize

---

<b>Description</b>	Specifies the maximum size (in kilobytes) of the SCM log.
<b>Value</b>	Positive integer. <b>Default:</b> 500.

### PBXPerforceToolPath

---

<b>Description</b>	Identifies the p4 binary.
<b>Value</b>	Absolute pathname. <b>Default:</b> <code>/usr/local/bin/p4</code> .



# Document Revision History

This table describes the changes to *Xcode User Default Reference*.

Date	Notes
2009-07-14	Updated for Xcode 3.2.
2009-01-06	Added and updated defaults information.
	Added <a href="#">"XCSnapshotDiskImagePath"</a> (page 19).
	Undocumented <code>PBXCSToolPath</code> .
2008-11-19	Added information about source code formatting user default.
	Added <a href="#">"XCCodeSenseFormattingOptions"</a> (page 13).
2008-10-15	Updated for Xcode 3.1 and fixed cross-references.
	Added <a href="#">"Xcode User Default Overview"</a> (page 7).
	Added <a href="#">"PBXShowMatchingBrace"</a> (page 12).
	Changed <a href="#">"PBXIndentOnPaste"</a> (page 13) built-in default value to YES.
	Undocumented <code>XCSubversionToolPath</code> .
2008-05-30	Made corrections.
	Corrected spelling of the <code>NSRecentDocumentsLimit</code> user default.
2007-05-11	New document that describes the user defaults developers can use to customize Xcode behavior.

## REVISION HISTORY

### Document Revision History