



BBEdit 5.1.1 Delta Manual

BBEdit 5.1 added new levels of integration with Perl and MPW to its already world standard capabilities for HTML and source code editing. BBEdition 5.1.1 is primarily a maintenance release, although there are a few new features and tweaks in addition to fixes for issues found in previous versions of BBEdition.

This Delta Manual (the Greek letter delta, Δ , is the mathematical symbol for change) describes what's changed in version 5.1.1 of BBEdition. A separate document included with the BBEdition 5.1.1 updater covers the problems addressed by this new release.

If you're upgrading from a previous version of BBEdition, the BBEdition 5.1.1 Delta Manual contains everything you need to know about BBEdition 5.1.1's new features. For your convenience, we've also included information on changes in previous versions of BBEdition—since version 5.0.

If you're a new BBEdition user, start with the BBEdition User Manual; it remains a good introduction to the program's basic features. Refer to this Delta Manual when you find obvious differences between the software described and what's on your screen.

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Installing the Update

If you're already using BBEdition 5.0 or later, you can use the BBEdition 5.1.1 updater to upgrade your installed copy of BBEdition to version 5.1.1. You can download the updater from the Bare Bones Software Web site at <http://web.barebones.com/support/update.html>.



Once you've downloaded and unpacked the updater, you can install the upgrade by double-clicking the Update to BBEdit 5.1.1 application (icon at left). This application will search your hard disk for a suitable copy of BBEdit and pre-select it for updating. If the updater finds multiple copies of BBEdit on your computer, we suggest you quit the installer and delete all but one of them to avoid confusion. Alternatively, update them all.

If the updater cannot find your copy of BBEdit, it may be a version older than 5.0, or it may be a demo version. The updater only works with the full release version of BBEdit 5.0 or later. If you currently have a demonstration version of BBEdit 5.x, you can download a new 5.1.1 demonstration version from the Bare Bones Software Web site. If your version of BBEdit is older than 5.0, please contact Bare Bones Software to purchase an upgrade.

Select the copy of BBEdit you want to update and click the Update button. If the updater reports that your application has been modified or is the wrong version, quit the updater, reinstall the BBEdit application from the original CD-ROM, and try the update again.

If you encounter difficulty at any stage of the upgrade procedure, restart the computer with the Shift key held down to disable extensions and try again. If the problem persists, contact Bare Bones Software Tech Support by email at support@barebones.com (or by phone at 781-687-0700 between 9 AM and 6 PM Eastern time).

BBEdit 5.1.1 Changes

General Enhancements

BBEdit supports the "re-open application" event sent by the Finder in Mac OS 8.0 and later. When you double-click the application icon in the Finder and BBEdit is already running, but has no windows open, BBEdit will perform the same action it performs at startup. (This can be set in the Startup panel of the Preferences.)

Go To Next Error and Go To Previous Error now work in the ToolServer Worksheet. You can also use Send Command (on the ToolServer menu) to send commands to ToolServer from any BBEdit document window, not just the ToolServer Worksheet. Output is appended to the ToolServer Worksheet.

Close All Windows is now significantly faster when most of the windows don't need to be saved, because such windows are now closed without bringing them to the front.

Scripting Enhancements

BBEdit's Multi-File Replace is now scriptable in the same way as the Multi-File Find. This means the *multi-file*, *starting at*, *nested folders*, *skip shielded*, *skip system*, *text files only*, and *replace mode* parameters are available to the *replace* verb as well as with *find*.

The Normalize Tag Case HTML tool is now part of BBEdition's scripting dictionary.

Drop BBEdition on Script Editor for a complete, up-to-date dictionary.

Preferences Changes

When you change the suffix mappings in the Languages panel of the Preferences, BBEdition updates all open documents affected by the change. It is no longer necessary to close and re-open documents.

The Exchange Command and Option checkbox in the Editor panel of the Preferences has been split in two. You can now swap the Command and Option keys separately for horizontal cursor movement and for vertical cursor movement.

User-defined menu key bindings are now carried forward from previous versions of BBEdition. It is no longer necessary to reset the factory key bindings in order to see new commands in the Set Keys dialog.

BBEdit 5.1 Changes

Projector Support



Projector is Apple's source-control database, which is available via either the MPW Shell or through the stand-alone SourceServer application included in MPW. Either method works seamlessly with BBEdition thanks to the Projector pull-down menu, shown at left. To get the most out of this function, you should already be familiar with MPW's source-management functions.

Before you start, make sure SourceServer support is enabled in the Services panel of the BBEdition Preferences.

Note Previously, you had to mark a checkbox when opening a file, or in the Preferences, to have BBEdition recognize Projector information attached to a file. BBEdition 5.1 always recognizes Projector state information, and this feature can no longer be disabled.

The following functions are available from the Projector menu.

Check In

Checks the source file in the frontmost window (or some other file) into the project. The Check In dialog appears.

Check Out

Checks the source file in the frontmost window (or some other file) so it can be modified. The Check Out dialog box appears.

Get Revision

Gets a revision for the current document or for some other file. The Get Revision dialog appears.

Cancel Check-Out

If the front window is checked out, this command discards any changes made to it and retrieves the latest version. Hold down the Shift key to choose a file to be canceled instead of canceling the front window.

Edit Task Comment

Choose this command to edit the comment for this file. Hold down the Shift key to choose a file instead of editing the comment for the front window.

Compare Revisions

This command compares the contents of the frontmost window with another revision of the file. You will be prompted to choose the desired revision. The results will appear in the same format used by the regular Compare Files command.

Revision History

This command retrieves a complete version history of the frontmost window from Projector and displays it in a new BBEdit document window. Hold Shift to choose any file, rather than assuming the frontmost window.

New Project

Creates a new project database from an existing folder of source files, a handy alternative to doing it from the MPW Shell. The New Project dialog appears.

Check In Folder

Allows you to check in an entire folder of files at once. You are first prompted for the folder that contains the files you want to check in. Then a folder browser appears showing all the files in that folder and its subfolders. Select the file or files to be checked in (you can select multiple files by holding Shift or Command while you click) or press Command-A to select all listed files. Then click the Check In button. If you have selected one file, the Check In dialog appears to allow you to set the check-in options. If more than one file is selected, the Batch Check In Options dialog appears.

After you have set the options using one of these dialogs, click OK to check in the files. The Check In Folder will remain on the screen. You can check in sets of files using different check-in options by choosing other files, then clicking Check In again. Click Done when you have finished checking in files.

Check Out Folder

Use this command to check out an entire folder of files at once. The Check Out Folder dialog appears.

Make Obsolete

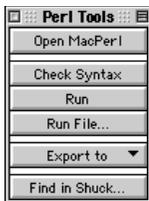
Marks the current document as “obsolete” in the Projector database. Hold down the Shift key to choose a file instead of obsoleting the frontmost window’s file.

Remove Projector Info

Removes the ‘CKID’ resource from the current file, losing all embedded Projector state information. Hold the Shift key to choose a file instead of operating on the frontmost window.

MacPerl Support

BBEdit now has integrated functionality for the Macintosh version of Perl—MacPerl—which can be activated in the Tools panel of the Preferences. Previous versions of BBEdit only understood Perl syntax and would color Perl source code appropriately. The new extended support for MacPerl allows you to syntax-check and run Perl scripts without leaving BBEdit, all from the new Perl menu or a new Perl Tools floating window (both shown at left). Errors appear in a BBEdit browser and output is directed to a new BBEdit window. (Special kinds of scripts, known as filters, can operate on the selection in a BBEdit document window.)



Before you use MacPerl with BBEdit, create a folder called MacPerl Support in the same folder as the BBEdit application. In this folder, create folders called Perl Scripts and Perl Filters. These two folders will be used to build the Perl Scripts List and Perl Filters List, two floating palettes that allow you to run your scripts with a double-click.

The scripts in the Perl Scripts folder will also appear at the bottom of the Perl menu.

Note If a file associated with a window is detected to have Unix or DOS line breaks, then BBEdit will send the text of the window to MacPerl for execution, rather than sending the document's file. This is done because MacPerl can't execute scripts with non-Mac line endings. If a disk file is being directly executed (i.e. from an OSA script, Perl Scripts or Perl Filters palettes) and contains non-Mac line breaks, BBEdit will read in the file's text and convert it to Mac line-break format before sending it to MacPerl for execution.

Perl Menu

The following functions can be activated from the Perl menu (the camel in your menu bar). The Perl Tools floating palette also contains many of these functions.

Open MacPerl

Locates and launches the MacPerl application. (The application is located by its creator type. If you have more than one copy of MacPerl installed, this launches the version most recently installed.)

Perl Tools Palette

Opens the Perl Tools palette, a floating window that displays most of the items on the Perl menu for one-click access.

Perl Filters List

Opens the Perl Filters list, a floating window that displays a list of the scripts in the Perl Filters folder. Filters are special scripts designed to work on the selected BBEdit text. (See next section.)

Perl Scripts List

Opens the Perl Scripts list, a floating window that displays a list of the scripts in the Perl Filters folder. (See next section.)

Check Syntax

Checks the syntax for the frontmost window. Errors are displayed in a standard BBEdit error browser.

Run

Runs the script in the frontmost window. Errors are displayed in a standard error browser; any output from the script is displayed in a new BBEdit window titled MacPerl Output. (This file is created in the MacPerl Support folder.)

Run File

Runs a Perl script selected from an Open dialog rather than the script in the frontmost window. (Errors and output are handled as with the Run command.)

Export To

Exports the current Perl source document to a CGI Script, a Droplet (a drag-and-drop application), or a Runtime (a self-contained script that doesn't require MacPerl installed to execute). If additional export file format extensions are installed in the MacPerl Extensions folder (in the same folder as MacPerl itself), these will appear in this submenu as well.

Find in Shuck

Looks up the selected text using the Shuck reference application.

Perl Scripts folder contents

The scripts in the Perl Scripts folder are displayed at the bottom of the Perl menu. (Only text files with names ending in “.pl” are displayed.)

Perl Filters list

The Perl Filters list is a floating window that displays the scripts in the Perl Filters folder. (Only text files with names ending in “.pl” are displayed.) You can run the selected filter by clicking the Run button, or you can simply double-click the filter name.

The current BBEdit document selection is passed to the script on STDIN, and any output sent to STDOUT is placed into the document in place of the selection. (The output can also be sent to a new document window, but usually you will want to send it back to the selection.)

Click the Options button in the window to display the Perl Filter Options dialog, where you can set the destination for STDERR and STDOUT as well as other output options.

Perl Scripts list

The Perl Scripts floating window allows you to execute any Perl script in the Perl Scripts folder by double-clicking (or by clicking the Run button). Only text files with names ending in “.pl” are displayed in this palette.

Unlike the scripts in the Perl Filters folder, the current BBEdit selection is not passed to the script on STDIN. The scripts' STDOUT is redirected to the MacPerl Output file in the MacPerl Support folder, and STDERR to an error browser.

General Enhancements

In BBEdit's Find dialog, you can elect to use a Sherlock index as the basis for a multi-file search. You will then be able to choose an indexed volume to be searched (or all volumes or all local volumes). BBEdit will pass the entered search string to Sherlock's find-by-content; it will then search the list of files that Sherlock returns, subject to the file filtering criteria specified in the BBEdit Find dialog. Any matches will be presented in the usual fashion. Note that Sherlock is only suited to literal matches; you cannot use Grep with a Sherlock Index search.

The "Arrange..." dialog now remembers the last-used setting across runs of the application.

The Hard Wrap command has been enhanced. The None option has been renamed Flush Left; Indent All Lines is now simply All Lines. A new indentation mode, Same as First Line, indents all lines to the same indentation as the first line of the selection or document. The new Relative to First Line checkbox makes any paragraph indents relative to the original indent of the first line of the selection or document.

The following new Perl-like grep escapes have been added to the Find command:

Escape	Meaning
<code>\s</code>	matches any white space character (space, tab, carriage return, form feed)
<code>\S</code>	matches any non-white space character (anything other than space, tab, CR, form feed)
<code>\w</code>	matches any word character (generally alphanumeric)
<code>\W</code>	matches any non-word character (including carriage returns)
<code>\d</code>	matches any digit (same as "#", which is still supported)
<code>\D</code>	matches any non-digit character (including carriage returns)

The definition of a "word character" is somewhat existential: a word is any run of non-word-break characters bounded by word breaks. Word characters in the ASCII range are generally alphanumeric, and characters whose value is greater than 127 are also considered word characters. Any character matched by "`\s`" is by definition not a word character; thus, anything matched by "`\s`" will also be matched by "`\W`" (but not the reverse).

HTML Tools Enhancements

Including Perl Scripts

The `#include` directive, used by the Update command and by templates, can now execute MacPerl scripts. These scripts must be saved as text files with names ending in “.pl”. The name of the file being processed is passed to the script as the first argument, and any variables in the include statement are passed as additional arguments. All these can be retrieved via `@ARGV`—for example:

```
my $file = shift @ARGV;
my %args = @ARGV;
```

In addition, BBEdit will pass information about the current HTML Tools settings to the script in the following environment variables, whose names should be self-explanatory:

```
BBEditServerURL
BBEditServerPath
BBEditDefaultFileName
BBEditTemplateDirectory
BBEditRootDirectory
BBEditLowercaseTags
BBEditLowercaseAttributes
BBEditAlwaysQuoteAttributes
```

Any text sent to `STDOUT` by the script will be taken as the value of the `#include` operation and inserted into the HTML file. Error output, if any, will be presented in a standard error browser.

Other HTML Enhancements

When using Tag Maker, you can now hold down the Option key while clicking the Insert button (it will change to “Insert...”). Doing so will cause BBEdit to bring up the appropriate tag editing dialog for the tag you have selected. When inserting empty tags, Tag Maker no longer selects them but rather places the insertion point at a place convenient for typing.

BBEdit can now use Dreamweaver source profiles to determine your preferred tag case and for settings in the Format tool (under the Utilities) submenu. You choose a profile in the HTML Markup panel of the Preferences. If you select Source Format Profile in the Format dialog, BBEdit will use the following information from the profile:

- line break and indentation settings (from the “?elements” section)
- whether to use tabs or spaces to indent
- number of columns per indent level
- number of columns per tab character

A new Normalize Tag Case command has been added to the Utilities submenu of the Markup menu. This command makes the case of tags and attributes conform to the setting in the HTML Markup preferences.

The Update, Update Images, Check Syntax, and Check Links commands now have Nested Folders and Skip (...) Folders checkboxes when you check a folder or your site.

A new Home Page cleaner, which removes Claris-proprietary tags and attributes from HTML code, is available under the Misc submenu. (Specifically, tags and attributes beginning with "X-Claris" are removed.) This tool is also invoked by the Optimize command. The CyberStudio (now Adobe GoLive) cleaner has been beefed up, and now cleans all proprietary CyberStudio tags. The CyberStudio cleaner, Home Page cleaner, PageMill cleaner, and Image Updater no longer normalize tag case and quoting.

The HTML syntax checker can now warn of elements that are implicitly closed, such as <P>, which can be implicitly closed by opening another paragraph. This option is in the HTML Tools panel of the preferences, under Syntax Checker Warnings.

The Anchor, Frames, and Base tools now have a popup near the "Target" field in their respective dialogs, which provides for quick selection of a predefined target. A URL scheme popup has been added to the Anchor dialog. Empty ALT attributes are no longer inserted by the image tool and are now user controllable.

A new #GENERATOR# placeholder inserts the same string included when you click Give BBEdit Credit when creating a new document. (In this version, the string is "BBEdit 5.1".)

The labels generated by the table tool no longer include white space between the <td> and </td> tags. The Label Cells setting in the Table dialog is now persistent. The Convert to Table tool now allows empty cells to be generated if your data set contains them. The "entity" entity has been added to the Entities list; by default, the HTML converter will ignore it.

Previously, clicking the file button or the current folder popup in the Image tool dialog would filter files based on content for images. For better performance, this could be overridden by holding down the Option key. Since different users wanted different default behaviors, a "Filter Images" checkbox has been added to the Image dialog to control this behavior. Holding down the Option key will reverse the sense of this setting on the fly.



The Web Safe Colors palette (and the color pop-up menus in dialogs) can now be displayed in three different configurations: a horizontal layout like BBEdit 5.0's, a vertical layout, and the VisiBone layout that shows related colors together in a wheel-like layout (left). You can choose the layout in the HTML Colors panel of the Preferences. The color pop-up menu now displays the hex value of the color as you navigate the menu, and all dialogs that incorporate a color pop-up now also display the hex value of the selected color next to the color swatch for easy identification.

Hold down the Option key to change the Preview button in the HTML Tools palette to "Preview New." Clicking it will preview the HTML document in your desired Web browser, but will open it up into a new window in the browser (for browsers that support the required Apple Events). This functionality is also available directly in the Markup menu as the Preview in New Window command.

The document, site, and image updaters are now Projector-aware. BBEdit now supports https:// (secure HTTP) URLs throughout.

Frames have been removed from the 4.0 Transitional language table - you must use the Frameset DTD if you wish to use frames. (This was a bug.)

Scripting Enhancements

Drop BBEdit on Script Editor for a complete, up-to-date dictionary.

Perl filters and scripts may be invoked from OSA scripts using the new *run perl filter* and *run perl script* verbs. This makes it possible to write hybrid scripts to take advantage of the best capabilities of both Perl and AppleScript.

The Home Page cleaner is scriptable via the *Home Page cleaner* verb.

The Update, Update Images, Check Syntax, and Check Links commands now have *nested folders* and *skip shielded folders* boolean parameters.

SourceServer (Projector) preferences can be accessed by AppleScript (in fact, they can be accessed *only* by AppleScript). Currently, only the user name sent to SourceServer when executing commands that take a -u argument is included. (If you don't explicitly set this preference, your computer's owner name is used.) You can change the user name used in SourceServer commands by executing the following script:

```
tell application "BBEdit 5.1"
    set p to get SourceServer preferences
    set u to user of p
    display dialog "Username:" default answer u
    set u to text returned of the result
    set user of p to u
    set SourceServer preferences to p
end tell
```

Preferences Changes

The Open Recent lists FTP Files setting has been moved to the FTP Settings preferences.

The new HTML Colors panel allows you to configure the display of the Web Safe Colors palette and of the color popup menus.

A new HTML Markup panel now contains the Tag Case and Attribute Quoting settings (previously on the HTML Tools panel), and there's a new Tag Case option: Use Profile. If you select this option, BBEdit will honor the tag case specified in the Dreamweaver source profile when generating new code. The profile is also used for the Normalize Case command and the Format command.

BBEdit 5.0.x Changes

General Enhancements

New in 5.0.2

In BBEdit 5.0.2, the functionality of the FTP tool has been integrated into the main application file. The "FTP" plug-in is no longer needed.

The State panel of the Preferences dialog now includes a checkbox named "Honor Option Settings." If this checkbox is marked, BBEdit reads document option settings (including printing settings and the printing font) from the document's saved BBEdit state, if any. If this checkbox is not marked, BBEdit uses the preferences to determine the document settings. By default, this checkbox is marked.

It is now possible to select multiple items in certain browser windows (error browsers, Search Results, and Replace Results), allowing you to open and delete such items en masse. Multiple selection can be performed by Shift-clicking to select a range or Command-clicking to toggle the selection of individual items.

BBEdit is less beepy. If an error browser or alert reports no errors, only warnings or notes, no beep is sounded.

New in 5.0.1

BBEdit's function scanner now supports JavaScript. JavaScript support is activated both in HTML documents with embedded scripts, and in documents whose suffix identifies them as JavaScript documents (see the Languages panel of the Preferences dialog).

A new Show Results checkbox has been added to the multi-file Search and Replace dialog—the dialog that appears after the list of files has been built but before the Replace operation has begun. If this checkbox is marked, as it is by default, after a multi-file Replace operation, a Replace Results browser appears at the completion of the operation. BBEdit 5.0 always did this. BBEdit 5.0.1 lets you turn it off and restore the behavior of pre-5.0 versions.

HTML Tools Enhancements

New in 5.0.2

Persistent includes are now fully nestable. (See pages 222-226 in the BBEdit 5.0 User Manual for information on includes.) The Insert directive is no longer necessary, and the Insert markup tool (on the Includes submenu or button) has been removed. The directive will continue to be supported for some time, but it has been deprecated and should no longer be used.

The Update Site tool now guards against unclosed persistent include directives (those which do not have a matching “end include” comment tag), reporting an error rather than replacing everything between the badly-formed include directive and the beginning of the next include.

When “commenting out” a portion of an HTML document, BBEdit now replaces “<” with “[[”, “>” with “]]”, and “—” with “~~”. This preserves well-formed comments and avoids comment-parsing bugs in browsers, as before, but eliminates the use of 8-bit characters. Uncommenting a selection reverses these substitutions.

The List tool now has a “Generate Close Tags” checkbox. If this checkbox is marked, the tool generates tags after each list item. These closing tags are optional in the HTML specification, and the checkbox is unmarked by default.

New in 5.0.1

The <INPUT> tag editor now supports setting the SRC attribute when the type of field is IMAGE.

The Image tool now allows JPEG and PNG files to be selected for the LOWSRC attribute, as well as GIFs. A Reload button (right) next to the Size fields lets you refresh the Height and Width from the image's local disk file—useful when the image has been edited and its dimensions changed. Additionally, a bug in BBEdit 5.0 which would cause a bogus LOWSRC attribute to be inserted if the target file was on an AppleShare server has been fixed.

A new Includes submenu on the Markup menu contains commands for generating the HTML comment tags used by BBEdit's Update commands for includes. A similar button has also been added to the HTML Tools palette. The following commands are included:

- **Include.** Generates a regular include, one that will be replaced at the first update. You will be prompted to select a file to be included.
- **Persistent Include.** Generates a persistent include, one that will remain in place after updating and can be updated repeatedly as the included file is changed. Both beginning and ending comment markers are inserted. You will be prompted for a file to be included.
- **Placeholders.** Opens a window (shown at right) to allow you to insert a placeholder from a list.

Generate Shell (in the Table dialog) now remembers its state across invocations of the tool.

The HTML Entities floater now remembers whether it was inserting entities by name or by code across invocations. Additionally, holding the Option key changes the Insert button to Show. If an HTML entity (a string beginning with “&” and ending with “;”) is selected, Option-clicking the button selects that entity in the list; otherwise, the first character of the selection, or the first character after the insertion point, is looked up. If the character is not found in the palette, an alert beep sounds.

Tag Maker now works when the selection range crosses HTML tokens (i.e., tags, comments, and content). If the selection is properly balanced HTML, Tag Maker displays all tags that are valid within the selection's parent container that can also contain the first top-level tag in the selection. (For example, if you have selected a <TD> container, which is inside a <TABLE> container, Tag Maker will offer to insert <TR> and <TH>, tags which can be placed inside <TABLE> that can also contain <TD>.)

The Anchor dialog now supports the TITLE attribute.

The Format command (under the Utilities submenu of the Markup menu, or behind the Utilities button on the HTML Tools palette) now has a Gentle Compact formatting option. Gentle Compact in 5.0.1 is equivalent to Compact in 5.0. In 5.0.1, Compact is more aggressive about stripping white space in and around non-inline elements—perfect for stripping excess white space from tables that contain only images, for instance.

Three new Update Images commands (on the Update submenu of the Markup menu, or behind the Update button on the HTML Tools palette) update all the tags in a file, folder, or site to have HEIGHT and WIDTH attributes that match the file they reference. Any images which cannot be found generate error messages.

You can set the following options when updating images:

- Update Height & Width: Choose Always to always insert HEIGHT and WIDTH attributes, even if they are not present. Choose Only if Present to replace existing HEIGHT and WIDTH attributes with new values, but not to add them to tags that don't already have them.
- Don't Update 1x1 Images: Mark this checkbox to skip updating attributes for single-pixel images.
- If ALT Attribute is Missing, Insert Empty ALT Attribute: Provides a cleaner display in text browsers by adding an ALT="" attribute to any tag that does not already have an ALT attribute.

Scripting Enhancements

New in 5.0.2

A new window property, show function position, reflects the state of the “Show Function Position” setting for a window. Changing it will show or hide the function display. The inside tag command (added in BBEdit 5.0.1) can now be used for close tags as well as open tags.

New in 5.0.1

The Preview command in the HTML tools is now scriptable. The new Update Images tools are scriptable. Scripting now supports parsing and munging HTML (see find tag, generate tag text, inside open tag, inside tag pair, and inside tag).