

# BBAutoComplete 1.5.4 Manual

C-Command Software  
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# 1 Introduction

BBAutoComplete adds word auto-completion to [Affrus](#)<sup>1</sup>, [BBEdit](#)<sup>2</sup>, [Mailsmith](#)<sup>3</sup>, [Microsoft Word](#)<sup>4</sup>, [Script Debugger](#)<sup>5</sup>, [Smile](#)<sup>6</sup>, [Tex-Edit Plus](#)<sup>7</sup>, and [TextWrangler](#)<sup>8</sup>. You type the start of a word, press a key, and BBAutoComplete types the letters to complete the word. If BBAutoComplete guessed wrong, you can keep pressing the key to cycle through other possible completions. Other auto-completion utilities need to be taught the abbreviations and expansions that you use; BBAutoComplete avoids this hassle by automatically looking for expansions in the program's open documents. This means that it always suggests completions that are relevant to your current task.

BBAutoComplete is probably most useful for programmers, who need to remember and type long variable and method names, but it can also help with prose writing. It's useful any time you need to type long words quickly and accurately.

BBEdit 9 and later have a built-in auto-completion feature, however BBAutoComplete is preferable in some ways:

- BBAutoComplete can look for completions using text in other windows and documents that are open.
- Depending where your cursor is, BBEdit may ignore potential completions, even if the words appear just a few lines away in the same document.
- The completions that BBAutoComplete offers are easily predictable and consistent; they do not change based on the syntactic context.
- BBAutoComplete is case-sensitive, which helps to narrow the list to the most relevant completions.

## 2 Installing and Updating

### 2.1 Requirements

BBAutoComplete is a universal binary that runs natively on both PowerPC- and Intel-based Macs using Mac OS X 10.4–10.7. BBAutoComplete works in the following programs:

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<sup>1</sup><http://www.latenightsw.com/affrus/>

<sup>2</sup><http://www.barebones.com/products/bbedit/>

<sup>3</sup><http://www.mailsmith.org>

<sup>4</sup><http://www.microsoft.com/mac/word>

<sup>5</sup><http://latenightsw.com/sd4/>

<sup>6</sup><http://www.satimage.fr/software/en/index.html>

<sup>7</sup><http://www.tex-edit.com>

<sup>8</sup><http://www.barebones.com/products/textwrangler/index.shtml>

- [Affrus](#)<sup>9</sup> 1.0 and later
- [BBEdit](#)<sup>10</sup> 6.0 and later (not BBEdit Lite)
- [Mailsmith](#)<sup>11</sup> 1.5 and later
- [Microsoft Word](#)<sup>12</sup> from Office 2004 and later
- [Script Debugger](#)<sup>13</sup> 3.x (Script Debugger 4.x is not scriptable)
- [Smile](#)<sup>14</sup> 2.6.9 and later
- [Tex-Edit Plus](#)<sup>15</sup> 4.5 and later
- [TextWrangler](#)<sup>16</sup> 1.5 and later

If you know AppleScript, you can hook it up to other scriptable text editors. If you do, please send me your glue script, so that I can include it with the BBAutoComplete distribution.

## 2.2 Installing BBAutoComplete

Drag the BBAutoComplete icon onto the Applications folder. Double-click the Applications folder to open it. Double-click the BBAutoComplete icon to launch it. Eject the white BBAutoComplete-1.5.4 icon.

Now follow the instructions in the [Integration Scripts](#) section.

## 2.3 Updating From a Previous Version

Updating BBAutoComplete is just like installing it. You should replace the application and its associated AppleScripts with the latest versions. If you have made modifications to the AppleScripts, be sure to transfer them when you update the scripts.

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<sup>9</sup><http://www.latenightsw.com/affrus/>

<sup>10</sup><http://www.barebones.com/products/bbedit/>

<sup>11</sup><http://www.mailsmith.org>

<sup>12</sup><http://www.microsoft.com/mac/word>

<sup>13</sup><http://latenightsw.com/sd4/>

<sup>14</sup><http://www.satimage.fr/software/en/index.html>

<sup>15</sup><http://www.tex-edit.com>

<sup>16</sup><http://www.barebones.com/products/textwrangler/index.shtml>

## 2.4 Integration Scripts

BBAutoComplete includes AppleScripts that let you invoke it from inside other programs. To access these scripts, choose **Show Scripts** from the **BBAutoComplete** menu. Find the color corresponding to the application that you're using, e.g. BBEdit 10.

These scripts need to be installed in particular locations so that they show up in the **Scripts** menus of the aforementioned programs.

### Affrus

The scripts go in the **Scripts** folder next to the Affrus application. To open this folder, you can choose **About The Scripts Menu** from Affrus's **Scripts** menu, and then click the **Open Scripts Folder** button.

### BBEdit

The scripts go in the folder `~/Library/Application Support/BBEdit/Scripts`. You may need to [set the trigger keys](#) after installing the scripts.

### Mailsmith

The script goes in the folder `~/Library/Application Support/Mailsmith/Scripts`.

### Microsoft Word 2011 14.2

The script goes in the folder `~/Library/Application Support/Microsoft/Office/Word Script Menu Items/`.

### Microsoft Word 2011 14.0–14.1

The script goes in the folder `~/Documents/Microsoft User Data/Word Script Menu Items`.

### Microsoft Word 2004–2008

Install [FastScripts](#)<sup>17</sup>. Put the script in the folder `~/Library/Scripts/Applications/Word/` (creating that folder, if necessary). Then open FastScripts's preferences and assign the script a keyboard shortcut.

### Script Debugger

The scripts go in the **Scripts** folder next to the Script Debugger application.

### Smile

Make sure that you have Smile installed and then run the **Installer** program in the **Smile** folder.

### Tex-Edit Plus

The scripts go in the **Scripts** folder next to the Tex-Edit Plus application.

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<sup>17</sup><http://www.red-sweater.com/fastscripts/>

## TextWrangler 2–4

The scripts go in the folder `~/Library/Application Support/TextWrangler/Scripts`.

## TextWrangler 1.5

The scripts go in the folder `~/Library/Application Support/TextWrangler Support/Scripts`.

The `Launch and Quit Scripts` folder contains optional scripts that open BBAutoComplete when you open your editor and quit it when your editor quits. The `Launch BBAutoComplete` script goes in BBEdit, Mailsmith, or TextWrangler's `Startup Items` folder, or in Smile's `~/Library/Application Support/Smile/More stuff/Initialization/` folder (which you may need to create). The `Quit BBAutoComplete` script goes in BBEdit, Mailsmith, or TextWrangler's `Shutdown Items` folder. It may be necessary for you to create the `Startup Items` and `Shutdown Items` folders. You might find it inconvenient to use these scripts if you use more than one of the programs.

## 3 Using BBAutoComplete

To use BBAutoComplete, type the first few letters of a long word in one of the supported applications. Then invoke the **BBAutoComplete** AppleScript from the **Scripts** menu, or use a keyboard shortcut (**Command- /** by default). BBAutoComplete will insert the letters to complete the word. If you aren't happy with the completion BBAutoComplete chose, invoke the **BBAutoComplete** AppleScript again. You can do this repeatedly to cycle through possible completions.

The order in which BBAutoComplete suggests completions is deterministic. With a little practice you'll be able to predict what BBAutoComplete will suggest, and how many completions you'll need to cycle through to get the one you want. Here are the rules:

- First, BBAutoComplete looks backwards, from the current insertion point to the beginning of the document. That is, the first completion it suggests is the last word you typed (that matches).
- Next, BBAutoComplete looks forwards, from the current insertion point to the end of the document.
- Next, it looks in the other windows, front to back, in layer order. (In Mailsmith, BBAutoComplete also looks in the subject, body, and notes fields of message windows; and in the preview panes of the Mail Browser and mail list windows.)
- Finally, it uses Mac OS X's spell checker to find additional completions, if you have that option checked in the preferences.
- Completions are case-sensitive. Letters and numbers are considered word characters; whitespace, punctuation, and other symbols are not. You can add more word characters in the Preferences window.

Note that this auto-completion algorithm is the same as `dabbrev-expand` (`M-/`) in [GNU Emacs](http://www.gnu.org/software/emacs/emacs.html)<sup>18</sup>, except for being case-sensitive. (If you don't know what Emacs is, stick with BBEdit.)

### 3.1 Changing the Trigger Key

#### BBEdit, Mailsmith, TextWrangler

Choose **Scripts** from the **Palettes** submenu of the **Window** menu. Click on **BBAutoComplete** in the palette that opens, and then click the **Set Key...** button.

#### Affrus, Script Debugger

Choose **Show Scripts** from the **Palettes** submenu of the **Window** menu. Click on **BBAutoComplete** in the palette that opens, and then choose **Set Keystroke...** from the down-pointing triangle menu opposite from the **Edit** button.

#### Microsoft Word, Smile, Tex-Edit Plus

You can change the key by modifying the letters at the end of the script file's name. For the details of how this works, please consult the documentation for those applications.

### 3.2 Ignoring Background Windows

By default, BBAutoComplete looks for completions in all of front program's open text windows. However, background windows containing lots of text will slow down BBAutoComplete. To make BBAutoComplete look for completions in only a single window, use the included **BBAutoComplete (Front Only)** script instead of the **BBAutoComplete** script.

### 3.3 Hiding the Dock Icon

You can hide BBAutoComplete's Dock icon by following these instructions. You'll need to make the Dock icon visible again in order to configure BBAutoComplete's preferences or view its help pages.

Hold down the Control key and click on the BBAutoComplete icon in the Finder. Choose **Show Package Contents** from the menu. Open the **Contents** folder, and then open the **Info.plist** file. At the bottom of **Info.plist**, change:

```
<key>LSUIElement</key>  
<string>0</string>
```

to:

---

<sup>18</sup><http://www.gnu.org/software/emacs/emacs.html>

```
<key>LSUIElement</key>
<string>1</string>
```

Then save the `Info.plist` file and relaunch BBAutoComplete. To make BBAutoComplete's Dock icon visible again, change the `Info.plist` file back; that is, change the 1 back to a 0.

## 4 Menus

### 4.1 The BBAutoComplete Menu

#### 4.1.1 About BBAutoComplete

The **About BBAutoComplete** window shows the credits, as well as download and support information.

You can always download the latest version of BBAutoComplete from the [BBAutoComplete Web site](#)<sup>19</sup>.

Questions about BBAutoComplete may be sent to [bbautocomplete@c-command.com](mailto:bbautocomplete@c-command.com)<sup>20</sup>. We're always looking to improve BBAutoComplete, so please feel free to send any feature requests to that address.

To make sure that you have the latest version of BBAutoComplete, you can use the *Software Update...* command.

#### 4.1.2 Software Update...

Click the **Check Now** button, and BBAutoComplete will tell you whether a newer version is available for download. By default, BBAutoComplete will automatically check for new versions each time it is launched and once per day. You can disable this feature by unchecking the checkbox.

If a new version is available, BBAutoComplete will tell you what's new in that version. Click **Download** to have BBAutoComplete download the `.dmg` file for the new version to your Internet downloads folder. (You can change the folder in Safari's preferences.) Click **Download & Install** to have it download the `.dmg` and then update the installed BBAutoComplete application to the new version.

To check for a new version, BBAutoComplete contacts a Web server at `c-command.com`. BBAutoComplete transmits the following information to the server: the name of the product (BBAutoCom-

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<sup>19</sup><http://c-command.com/bbautocomplete/>

<sup>20</sup><mailto:bbautocomplete@c-command.com>

plete) and its version, the version of Mac OS X, the kind of processor that the Mac has, whether BBAutoComplete has been purchased, and the name of the current language. This information is used to guide future development. No personal information is transmitted.

*Note:* The **Software Update...** menu command is not present if you purchased via the Mac App Store. Updates are available via the **App Store** application.

## 5 Preferences

### 5.1 Find completions using spell checker

This option causes BBAutoComplete use Mac OS X's built-in spell checker to find additional completions for the text that you've typed, after you've cycled through all the completions available in the current window and other open documents. This is useful when the open documents don't contain much text, and therefore aren't very useful for suggesting completions. It can also be used to help type words that you aren't quite sure how to spell. One reason to turn this option off would be if you often cycle through the whole list of completions and want to avoid cycling through a potentially long list of suggestions from the spell checker.

### 5.2 Use word cache

This option makes BBAutoComplete faster at suggesting completions, at the expense of using additional memory.

### 5.3 Extra word characters

Depending on the kind of words that you type, you may want to adjust BBAutoComplete's list of word characters. The effects of doing this can be surprising. For example, if you add . (period) as a word character, and your document contains:

```
foo.html  
www.apple.com
```

Then you will be able to complete:

```
f
```

```
to:
```

`foo.html`

or:

`w`

to:

`www.apple.com`

On the other hand, if your document contains:

`foo.method()`

you would not be able to complete:

`bar.m`

to:

`bar.method`

because `BBAutoComplete` will see the `foo.method` as a single word. When `.` is not a word character, the `method` is seen as a separate word, and so it can be used for completion.

## 6 Legal Stuff

### Distribution

Please distribute the unmodified `BBAutoComplete-1.5.4.dmg` file on the Web, LANs, compilation CD-ROMs, etc. You may not charge for it (beyond a reasonable cost for media) or distribute the contents of the disk image file in isolation. You may not distribute your serial number.

### Limited Warranty

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whether in an action of contract, tort or otherwise, arising from, out of or in connection with the software or the use or other dealings in the software.

## License

A license for BBAutoComplete is good for one person *or* one computer. You may install it on one Mac, and everyone sharing that Mac may use it (on that Mac). Alternatively, you may install it and use it on multiple Macs (e.g. your desktop Mac and your laptop); then you (and no one else) may use it on any of those Macs. For multiple users on multiple Macs, you should purchase multiple licenses.

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## Components

The following open-source components are used in BBAutoComplete:

- Regular expression support is provided by the [PCRE](#)<sup>22</sup> library package, which is open source software, written by Philip Hazel, and copyright by the University of Cambridge, England.
- [Core Foundation](#)<sup>23</sup> is available under the terms of the [Apple Public Source License](#)<sup>24</sup>.
- [Growl](#)<sup>25</sup> is Copyright © The Growl Project, 2004-2007 All rights reserved.

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<sup>21</sup><mailto:mjt@c-command.com>

<sup>22</sup><http://www.pcre.org>

<sup>23</sup><http://www.opensource.apple.com/darwinsource/10.4.10.x86/CF-368.28/>

<sup>24</sup><http://www.opensource.apple.com/apsl/>

<sup>25</sup><http://growl.info>

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- Thanks to Allan Odgaard for some code snippets that are used in the Software Update installer.

## 7 Version History

### 1.5.4—April 25, 2012

- Added support for [TextWrangler](#)<sup>26</sup> 4. Also, completion now works in TextWrangler search results browser windows.
- BBAutoComplete now has an automatic keyboard shortcut in [Microsoft Word 2011](#)<sup>27</sup>. (Previous versions of Word need [FastScripts](#)<sup>28</sup> to assign a shortcut.)
- BBAutoComplete now runs as 64-bit under Mac OS X 10.6 and later, which should make it launch faster.
- BBAutoComplete is now code-signed using a [Developer ID certificate](#)<sup>29</sup> for Gatekeeper.
- Modernized the **Software Update** window and code.
- Made various improvements to the documentation.
- Updated the disk image and Apple Help layouts.

### 1.5.3—September 12, 2008

- When using BBEdit 9, auto-completion now works in disk browser, project, and search results windows.
- BBAutoComplete now requires Mac OS X 10.4 or later.

### 1.5.2—January 9, 2008

- Fixed bug where BBAutoComplete was needlessly logging to the console.

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<sup>26</sup><http://www.barebones.com/products/textwrangler/>

<sup>27</sup><http://www.microsoft.com/mac/word>

<sup>28</sup><http://www.red-sweater.com/fastscripts/>

<sup>29</sup><http://www.apple.com/macosx/mountain-lion/security.html>

- The software updater is better at handling invalid downloads folders.

#### 1.5.1—November 14, 2007

- Fixed bug where the Apple Help didn't work on Mac OS X 10.5.
- Fixed bug where the [Software Update...](#) checker didn't always re-check for new updates.
- The [Software Update...](#) feature now checks whether the updated version can run on your installed version of Mac OS X.
- Modernized the crash reporter code.
- Fixed help book icon.

#### 1.5—February 7, 2007

- BBAutoComplete now requires Mac OS X 10.3 or later.
- Now works with [Microsoft Word](#)<sup>30</sup>.
- Added [Find completions using spell checker](#) option. This is useful when the open documents don't contain much text, and therefore aren't very useful for suggesting completions. It can also be used to help type words that you aren't quite sure how to spell.
- Can now find completions in BBEdit and TextWrangler results browser windows.
- Rewrote the [Software Update...](#) feature. When a new version is available, it can now show you the release notes. BBAutoComplete now downloads the new version itself, rather than relying on your browser. The **Download & Install** button will cause BBAutoComplete to auto-update itself to the latest version. Also, the software update checker now works behind HTTP proxies.
- Added keyboard shortcut for **Hide Others**.
- Improved compatibility with pre-release versions of Mac OS X 10.5.
- Added Danish localization.

#### 1.4.2—January 25, 2006

- BBAutoComplete is now a [universal binary](#)<sup>31</sup>.
- Can now look for completions in the preview panes of BBEdit and TextWrangler disk browsers.
- If [Path Finder](#)<sup>32</sup> is running, the **Show Scripts** command reveals the scripts using it instead of the Finder.
- The **Software Update** alert is now a sheet, so it won't interfere with auto-completion.
- Improved scaling of the icon.

#### 1.4.1—February 7, 2005

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<sup>30</sup><http://www.microsoft.com/mac/word>

<sup>31</sup><http://www.apple.com/universal/>

<sup>32</sup><http://www.cocoatech.com/pf4/>

- Now supports [TextWrangler](#)<sup>33</sup> 2.0's documents drawer.
- The **Front Only Smile**<sup>34</sup> script now works with European keyboards.
- Added example of changing the word characters.

#### 1.4—January 10, 2005

- Now works with [Smile](#)<sup>35</sup>.
- Fixed bug where BBAutoComplete sometimes didn't realize that the front window's text had changed, and so it returned the wrong completion.

#### 1.3—September 21, 2004

- Now works with [Affrus](#)<sup>36</sup>.
- In [BBEdit](#)<sup>37</sup> 8, now supports shell worksheets and multiple documents in the same window.
- The AppleScripts are now packaged inside the application; they can be accessed using the **Show Scripts** command in the **BBAutoComplete** menu.
- Added software update checker and crash reporter.
- Added **Close All Windows** and **Minimize All Windows** commands.
- Now requires Mac OS X 10.2 or later.

#### 1.2—August 13, 2003

- Now works with [Script Debugger](#)<sup>38</sup>, [Tex-Edit Plus](#)<sup>39</sup>, and [TextWrangler](#)<sup>40</sup>.
- Added new icon.
- Refined and updated the interface.
- Added Apple Help.
- Fixed bug in Mailsmith script.
- The Quit script no longer cancels logout.

#### 1.1.2—March 26, 2002

- Now works with Mailsmith 1.5.

#### 1.1.1—March 18, 2002

- Removed profiling code, so no longer creates `gmon.out` files at root of the boot volume.

#### 1.1—March 16, 2002

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<sup>33</sup><http://www.barebones.com/products/textwrangler/index.shtml>

<sup>34</sup><http://www.satimage.fr/software/en/index.html>

<sup>35</sup><http://www.satimage.fr/software/en/index.html>

<sup>36</sup><http://www.latenightsw.com/affrus/>

<sup>37</sup><http://www.barebones.com/products/bbedit/>

<sup>38</sup><http://latenightsw.com/sd4/>

<sup>39</sup><http://www.tex-edit.com>

<sup>40</sup><http://www.barebones.com/products/textwrangler/index.shtml>

- Parsing words is between 20 and 70 times faster than in 1.0.1 (for an 80KB window), with greater improvements on low-memory systems.
- The new word cache further speeds processing.
- BBAutoComplete can optionally ignore background BBEdit windows.
- Includes an Open BBAutoComplete script for BBEdit's Startup Items folder.

#### **1.0.1—February 27, 2002**

- The Quit AppleScript is saved as an application now—so it works.

#### **1.0—February 26, 2002**

- First public release.