

## Notes for REALbasic 2009 R2.1

### 11 Bug Fixes

- Transparent GIF images are now masked properly on Windows.
- In the IDE, opening a tab in a new window no longer causes that window to misbehave when closing the first tab.
- The Listbox cell HelpTag is now correctly positioned on Windows.
- A clipboard bug that affected copying and pasting pictures on Windows has been fixed.
- The IDE no longer crashes when accessing the Database Editor.
- Clicking on certain types of links in the Language Reference no longer causes a Nil Object Exception.
- MsgBox icons display again on Windows.
- A bug that was causing unhandled exceptions when using COM with dispatch interfaces (like Microsoft Outlook for example), has been fixed.
- The HTMLViewer no longer causes a TypeMismatchException on Windows.
- The ODBC plug-in has been updated to use glibc 2.3 making it compatible with the Linux distributions we officially support.
- The Oracle plug-in has been updated to work on Intel-based Macs.

## Notes for REALbasic 2009 R2

### 18 New Features

- You can now control whether or not the end user can sort columns in a listbox by clicking on the column header. See the Listbox.HeaderType property for details.
- Break points can now be toggled using the contextual menu. This was done to make it easier for users with non-US keyboards.
- Events can now be copied and pasted between classes provided that the target class can implement the event.
- The Listbox class now has RowTags which are like column tags but on rows.
- 256 x 256, 32-bit application icons are now supported for Windows Vista.
- You can now ask REALbasic to check for updates immediately using the shiny, new Check Now button in the Preference dialog box.
- The NotePlayer control is once again in the list of supported controls.
- Editing a new class now auto-expands the event handlers so they are visible.
- There is a new BreakOnExceptions pragma which can be used to override the Break On Exceptions menu item.

- Listbox cells can now have individual help tags. See the `Listbox.CellHelpTag` property for details.
- MySQL Enterprise Server is now officially supported.
- You can now quit the REALbasic IDE from an IDE script via the `QuitIDE` command.
- You can now encrypt and decrypt project items from an IDE script via the `EncryptItem` and `DecryptItem` commands. Use the new `SelectItem` command to select an item to encrypt or decrypt. This is a security measure to defeat brute force attacks created using IDE scripting.
- Via the Preferences dialog box, you can now indicate what type of project file format you want your project to save in by default.
- Applications can now be localized into Scottish Gaelic. Enya will be so happy.
- The `MsgBox` command now uses the native OS message box on Windows which means that the native buttons will automatically be localized by the OS.
- The `Date` class now has a constructor so you can create an object with a specific date with a single line of code.
- COM is now much better supported for controlling applications and system libraries that support COM.

## 6 Changes

- A new search now immediately clears old results from the search results list.
- Properties in the Property Behaviors dialog box are now sorted in the same order as they appear in the Properties pane.
- The Feedback window is no longer modal.
- Command (Control on Windows and linux) - `W` now closes the frontmost tab instead of the window if more than one tab is open. It also now works with the Language Reference, About Box, etc.
- The toolbars for the IDE and Language Reference can now have different toolbar styles.
- An encrypted project item will now refuse to decrypt after 3 failed attempts and will respond more and more slowly until the project is closed and reopened.

## 72 Bug Fixes

- Oracle Server is once again supported for Mac OS X and has been updated to support the most recent release of Oracle.
- The `ComboBox` control on Windows no longer deletes user-entered text when showing/hiding choices without selecting one.
- MySQL Community Edition Server is once again officially supported.

- The IDE no longer throws a NilObjectException when dragging a class from the browser list into the Code Editor.
- Lines of code no longer disappear when expanding and collapsing code blocks in the Code Editor.
- The IDE no longer crashes on Windows if you launch it, add a control and immediately choose Quit from the File menu.
- You can now create a file I/O stream from a file descriptor or file pointer on Mac OS X.
- You can now move controls more than one pixel at a time using the arrow keys.
- Building a project on Windows from a locked directory will now build to the temporary items directory instead of throwing a NilObjectException.
- Dates and Times are no longer getting corrupted when using ODBC.
- On Mac OS X, FolderItem.ShellPath now returns a valid shell path even if the path contains non-ASCII characters.
- Closing a large Virtual Volume is fast again (like it was in 2008r1 and earlier).
- Assigning a control's parent property to itself no longer causes a hang.
- Plug-ins no longer leak memory when they are loaded by a built application running on Mac OS X.
- The StyleRun class no longer leaks memory.
- The Location and Search fields in the IDE can now be tabbed into and out of again.
- Calling Raise() without specifying an exception type no longer causes a failed assertion.
- GetTrueFolderItem with a root path no longer crashes.
- 8-bit toolbar icons now appear again on Mac OS X. This broke in 2009r1.
- System.EnvironmentVariable no longer leaks memory on Mac OS X.
- Choosing Close Other Tabs no longer closes the Debugger tab if it's open.
- The Code Editor no longer locks keyboard input when clicking away from the autocomplete popup window on Windows.
- A resize mouse cursor is no longer displayed over the content area if you have a listbox with resizable columns and have column 0 set to a width of 0 on Windows.
- Uncaught RBScript exceptions no longer cause a runtime failed assertion.
- The Serial.DataAvailable event is now triggered without the need to move the mouse.
- The Serial control no longer treats carriage returns (ASCII 13) as new lines (ASCII 10) on Linux.
- Closing a ContainerControl that contains an HTMLViewer no longer crashes.

- The text cursor in the Code Editor no longer randomly disappears on Windows.
- Custom mouse cursors are supported again.
- Loading pictures with alpha channels no longer crashes on Mac OS X.
- ConsoleApplication no longer displays nonsense properties in the IDE (like Index, Scope, Top and Left).
- The FolderItem.Launch method no longer launches the app in the foreground if parameters are included and Active is false.
- The XmlDocument.Transform method no longer crashes if your XML document is larger than 65K.
- The Preferences dialog box has been adjusted so that some text strings are no longer clipped.
- The IDE no longer hangs on launch if the most recent project is on a volume that is no longer available.
- Copying an event no longer occasionally pastes the event.
- Incorrect property declarations such as MyVar(19) As Integer() now result in a syntax error instead of a failed assertion.
- On Linux, Date.WeekOfYear is now consistent with Mac OS X and Windows.
- On Windows, Resizing a locked Groupbox in the IDE's Window Editor no longer crashes when the Groupbox's top and bottom meet.
- The Feedback window will no longer appear to already be in progress when you open it a second time.
- The Splash Screen text is now properly centered on Linux.
- The System.Network class no longer throws a failed assertion.
- Status messages on the Splash Screen are no longer truncated on Linux.
- Tab bars now respect the entire close icon (and not just half of it) when there are many tabs open.
- Dynamically localized strings no longer result in Console log errors on Mac OS X.
- Autocompleting Editfields (like the Location field in the IDE) no longer ignore menu selection.
- Code folding with nested folded code works better in the Code Editor.
- Issues where external items could result in a valid folderitem that specified a file that did not exist have been fixed. This was frequently a result of moving and/or renaming external items like pictures.
- Relaunching the IDE after a hard crash no longer throws a NilObjectException.
- A bug that resulted in no results being returned when using DoShellCommand in an IDE script on Windows has been fixed.

- Help tags for toolbar buttons no longer incorrectly display the “&” symbol.
- The pragma Unused now autocompletes.
- Lots of various bugs in the language reference content have been fixed.
- Converting a property to a computed property no longer changes the name to title case.
- The IDEScript command Sublocations now returns a list delimited by chr(9) allowing items with spaces in the name to be split in the list.
- Data is now properly sorted when a row is expanded in the Profiler results.
- If a checkbox is in an indeterminate state, setting the Value to true no longer clears it. You must use the State property. However, you can still set the Value to false and that will change the state.
- The Feedback window in the IDE now properly resizes along with all of its controls.
- Demo apps now quit properly on Linux.
- A bug has been fixed that caused choosing Save As from the File menu to fail when saving a project in XML format.
- Building an application that contains plug-ins in a restricted directory no longer causes a failed assertion on Windows.
- Toolbar icons are now masked properly for screen depths less than 32-bit on Windows.
- The Listbox no longer copies column data in the wrong order.
- Windows can no longer be set to “Console Applications Only”.
- Plugin-Developers: REALLoadObjectMethod and REALLoadGlobalMethod no longer leak memory. REALbasic users: Nothing to see here. Move along.
- Customizing the toolbar for the Language Reference no longer misnames the Customization dialog box.
- Popupmenu controls no longer receive the focus when Full Keyboard Access is disabled on Mac OS X.
- System.Log no longer leaks memory on Mac OS X.
- Setting Help Tags to controls no longer leaks memory on Mac OS X.
- If the IDE cannot create the Resources folder while building your application, you will now get an error rather than a failed assertion.
- Finding items that had an ellipsis in the autocompletion in the Language Reference works again.
- Methods in subclasses whose parent class was in a namespace now autocomplete.
- Release notes now contain a final note marking the end of the release notes.