

# LiveCode 6.5.2 Release Notes

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## Overview

This document describes all the changes that have been made for LiveCode 6.5.2, including bug fixes and new syntax.

## Known issues

- The installer will currently fail if you run it from a network share on Windows. Please copy the installer to a local disk before launching on this platform.

## Platform support

The engine supports a variety of operating systems and versions. This section describes the platforms that we ensure the engine runs on without issue (although in some cases with reduced functionality).

### Windows

The engine supports the following Windows OSes:

- Windows XP SP2 and above
- Windows Server 2003
- Windows Vista SP1 and above (both 32-bit and 64-bit)
- Windows 7 (both 32-bit and 64-bit)
- Windows Server 2008
- Windows 8.x (Desktop)

**Note:** On 64-bit platforms the engine still runs as a 32-bit application through the WoW layer.

### Linux

The linux engine requires the following:

- 32-bit installation, or a 64-bit linux distribution that has a 32-bit compatibility layer
- 2.4.x or later kernel
- X11R5 capable Xserver running locally on a 24-bit display
- glibc 2.3.2 or later
- gtk/gdk/glib (optional – required for native theme support)
- pango/xfnt (optional – required for pdf printing, anti-aliased text and unicode font support)
- lcms (optional – required for color profile support in JPEGs and PNGs)
- gksu (optional – required for elevate process support)

**Note:** The optional requirements (except for gksu and lcms) are also required by Firefox and Chrome, so if your linux distribution runs one of those, it will run the engine.

**Note:** If the optional requirements are not present then the engine will still run but the specified features will be disabled.

**Note:** LiveCode and standalones it builds may work on remote Xservers and in other bit-depths, however this mode of operation is not currently supported.

## Mac

The Mac engine supports:

- 10.4.11 (Tiger) on Intel and PowerPC
- 10.5.8 and later (Leopard) on Intel and PowerPC
- 10.6.x (Snow Leopard) on Intel
- 10.7.x (Lion) on Intel
- 10.8.x (Mountain Lion) on Intel
- 10.9.x (Mavericks) on Intel

**Note:** *The engine runs as a 32-bit application regardless of the capabilities of the underlying processor.*

## Setup

### Installation

Each distinct version has its own complete folder – multiple versions will no longer install side-by-side: on Windows (and Linux), each distinct version will gain its own start menu (application menu) entry; on Mac, each distinct version will have its own app bundle.

The default location for the install on the different platforms when installing for 'all users' are:

- Windows: <x86 program files folder>/RunRev/ LiveCode 6.5.2
- Linux: /opt/runrev/livecode-6.5.2
- Mac: /Applications/ LiveCode 6.5.2.app

The default location for the install on the different platforms when installing for 'this user' are:

- Windows: <user roaming app data folder>/RunRev/Components/LiveCode 6.5.2
- Linux: ~/.runrev/components/livecode-6.5.2
- Mac: ~/Applications/ LiveCode 6.5.2.app

**Note:** *If your linux distribution does not have the necessary support for authentication (gksu) then the installer will run without admin privileges so you will have to manually run it from an admin account to install into a privileged location.*

### Uninstallation

On Windows, the installer hooks into the standard Windows uninstall mechanism. This is accessible from the appropriate pane in the control panel.

On Mac, simply drag the app bundle to the Trash.

On Linux, the situation is currently less than ideal:

- open a terminal
- `cd` to the folder containing your rev install. e.g.

```
cd /opt/runrev/livecode-6.5.2
```

- execute the `.setup.x86` file. i.e.

```
./ .setup.x86
```

- follow the on-screen instructions.

## Reporting installer issues

If you find that the installer fails to work for you then please file a bug report in the RQCC or email [support@runrev.com](mailto:support@runrev.com) so we can look into the problem.

In the case of failed install it is vitally important that you include the following information:

- Your platform and operating system version
- The location of your home/user folder
- The type of user account you are using (guest, restricted, admin etc.)
- The installer log file located as follows:
  - **Windows 2000/XP:** <documents and settings folder>/<user>/Local Settings/

- **Windows Vista/7:** <users folder>/<user>/AppData/Local/RunRev/Logs
- **Linux:** <home>/<runrev>/logs
- **Mac:** <home>/Library/Application Support/Logs/RunRev

## Activation

The licensing system ties your product licenses to a customer account system, meaning that you no longer have to worry about finding a license key after installing a new copy of LiveCode. Instead, you simply have to enter your email address and password that has been registered with our customer account system and your license key will be retrieved automatically.

Alternatively it is possible to activate the product via the use of a specially encrypted license file. These will be available for download from the customer center after logging into your account. This method will allow the product to be installed on machines that do not have access to the internet.

## Multi-user and network install support (4.5.3)

In order to better support institutions needing to both deploy the IDE to many machines and to license them for all users on a given machine, a number of facilities have been added which are accessible by using the command-line.

**Note:** *These features are intended for use by IT administrators for the purposes of deploying LiveCode in multi-user situations. They are not supported for general use.*

## Command-line installation

It is possible to invoke the installer from the command-line on both Mac and Windows. When invoked in this fashion, no GUI will be displayed, configuration being supplied by arguments passed to the installer.

On both platforms, the command is of the following form:

```
<exe> install noui options
```

Here *options* is optional and consists of one or more of the following:

-allusers	Install the IDE for all users. If not specified, the install will be done for the current user only.
-desktopshortcut	Place a shortcut on the Desktop (Windows-only)
-startmenu	Place shortcuts in the Start Menu (Windows-only)
-location <i>location</i>	The location to install into. If not specified, the location defaults to those described in the <i>Layout</i> section above.
-log <i>logfile</i>	A file to place a log of all actions in. If not specified, no log is generated.

Note that the command-line variant of the installer does not do any authentication. Thus, if you wish to install to an admin-only location you will need to be running as administrator before executing the command. As the installer is actually a GUI application, it needs to be run slightly differently from other command-line programs.

In what follows <installerexe> should be replaced with the path of the installer executable or app (inside the DMG) that has been downloaded.

On Windows, you need to do:

```
start /wait <installerexe> install noui options
```

On Mac, you need to do:

```
"<installerexe>/Contents/MacOS/installer" install noui options
```

On both platforms, the result of the installation will be written to the console.

## Command-line activation

In a similar vein to installation, it is possible to activate an installation of LiveCode for all-users of that machine by using the command-line. When invoked in this fashion, no GUI will be displayed, activation being controlled by any arguments passed.

On both platforms, the command is of the form:

```
<exe> activate -file license -passphrase phrase
```

This command will load the manual activation file from *license*, decrypt it using the given *passphrase* and then install a license file for all users of the computer. Manual activation files can be downloaded from the 'My Products' section of the RunRev customer accounts area.

This action can be undone using the following command:

```
<exe> deactivate
```

Again, as the LiveCode executable is actually a GUI application it needs to be run slightly differently from other command-line programs.

In what follows <livecodeexe> should be replaced with the path to the installed LiveCode executable or app that has been previously installed.

On Windows, you need to do:

```
start /wait <livecodeexe> activate -file license -passphrase phrase
start /wait <livecodeexe> deactivate
```

On Mac, you need to do:

```
"<livecodeexe>/Contents/MacOS/LiveCode" activate -file license -passphrase phrase
"<livecodeexe>/Contents/MacOS/LiveCode" deactivate
```

On both platforms, the result of the activation will be written to the console.

## Proposed changes

The following changes are likely to occur in the next or subsequent non-maintenance release:

- The engine (both IDE and standalone) **will require** gtk, gdk, glib, pango and xft on Linux

## Engine changes

### Stepping through "open printing" forces a crash (6.5.2-rc-1)

On Mac, the open printing command opened a modal dialog which prevented further user interaction when debugging. The behavior of open printing has been changed so that no dialog is opened when the command is issued in script debug mode.

### Specific bug fixes (6.5.2)

*(bug fixes specific to the current build are highlighted in bold, reverted bug fixes are stricken through)*

- 11716 Hi-res iPad icon size incorrect**
- 11702 Change in cantSelect behavior makes it possible to create graphics on IDE stacks**
- 11698 Inverted colors in imported PBM bitmap image**
- 11027 User Guide entry under Help menu is missing**

### Specific bug fixes (6.5.2-rc-1)

- 11695 Dashes of length 0 not drawn
- 11684 prepare image file crashes LiveCode when file doesn't exist
- 11677 Slider with a width < 3 x height loses its thumb
- 11675 Application freezes when importing certain PBM image files
- 11673 Setting the fillRule of a polygon graphic stops it rendering
- 11672 long system time yields empty on linux in various locales
- 11671 Dashes are not drawn with rounded caps when the graphic includes arrows
- 11664 Text sometimes renders with decreased opacity on Windows.
- 11656 Slider renders white box under Linux
- 11653 Visual effect in rect shifted on iOS
- 11641 'the mouse' doesn't work on Android (it always returns 'up').
- 11632 Taking a snapshot of a non-buffered player doesn't work.
- 11628 Spaces after a style-run boundary are not skipped when wrapping text.
- 11627 Paragraph formatting incorrectly applied when setting the rtfText
- 11624 Click command clicks at wrong location on OSX when stack has menubar
- 11623 Android apps crash on restart
- 11605 Popup menus where the button has a unicode label but native items do not build the menuPick string correctly.
- 11594 LiveCode cannot resolve path to Android Runtime folder when building Android standalone
- 11589 Default font in standalones causing PDF to render badly
- 11576 Field does not re-wrap if visibility (or width) of vertical scrollbar changes.
- 11570 Referenced image doesn't draw stippled background when file missing
- 11546 Script editor line numbers are not displayed
- 11482 iOS control scroller doesn't scroll on iOS7
- 11459 Internal Livecode image with ID 1105 creates ID problem
- 11419 The cantSelect property of a graphic can prevent creation of new graphics
- 11412 Certain unicode characters are not rendered correctly on Android
- 11363 Prevent crash when destroying stack if a popup menu is open
- 11343 mouseStillDown and mouseWithin don't pass while using behavior

- 11286 [messagebox syntax for invoking functions is broken](#)
- 11270 [menu/Text: size does not work](#)
- 11094 [Script Editor doesn't include hash symbol in token delimiters](#)
- 9940 [Stepping through "open printing" forces a crash](#)

## Dictionary additions

- **start using font** (*command*) has been added to the dictionary.
- **stop using font** (*command*) has been added to the dictionary.
- **pixelScale** (*property*) has been added to the dictionary.
- **systemPixelScale** (*property*) has been added to the dictionary.

## Dictionary changes

- The entry for **accept** (*command*) has been updated.
- The entry for **add** (*command*) has been updated.
- The entry for **answer file** (*command*) has been updated.
- The entry for **call** (*command*) has been updated.
- The entry for **cancel printing** (*command*) has been updated.
- The entry for **cancel** (*command*) has been updated.
- The entry for **choose** (*command*) has been updated.
- The entry for **click** (*command*) has been updated.
- The entry for **clone** (*command*) has been updated.
- The entry for **close driver** (*command*) has been updated.
- The entry for **close file** (*command*) has been updated.
- The entry for **close printing** (*command*) has been updated.
- The entry for **close process** (*command*) has been updated.
- The entry for **close** (*command*) has been updated.
- The entry for **combine** (*command*) has been updated.
- The entry for **compact** (*command*) has been updated.
- The entry for **convert** (*command*) has been updated.
- The entry for **copy** (*command*) has been updated.
- The entry for **create card** (*command*) has been updated.
- The entry for **create stack** (*command*) has been updated.
- The entry for **create** (*command*) has been updated.
- The entry for **crop** (*command*) has been updated.
- The entry for **decrypt using rsa** (*command*) has been updated.
- The entry for **delete URL** (*command*) has been updated.
- The entry for **delete chunk** (*command*) has been updated.
- The entry for **delete folder** (*command*) has been updated.
- The entry for **delete variable** (*command*) has been updated.
- The entry for **delete** (*command*) has been updated.
- The entry for **disable menu** (*command*) has been updated.
- The entry for **disable** (*command*) has been updated.
- The entry for **divide** (*command*) has been updated.
- The entry for **doMenu** (*command*) has been updated.
- The entry for **drag** (*command*) has been updated.
- The entry for **edit** (*command*) has been updated.



- The entry for **export snapshot** (*command*) has been updated.
- The entry for **export with palette** (*command*) has been updated.
- The entry for **filter** (*command*) has been updated.
- The entry for **find** (*command*) has been updated.
- The entry for **flip** (*command*) has been updated.
- The entry for **focus** (*command*) has been updated.
- The entry for **get** (*command*) has been updated.
- The entry for **global** (*command*) has been updated.
- The entry for **go** (*command*) has been updated.
- The entry for **grab** (*command*) has been updated.
- The entry for **import snapshot** (*command*) has been updated.
- The entry for **intersect** (*command*) has been updated.
- The entry for **launch** (*command*) has been updated.
- The entry for **lock messages** (*command*) has been updated.
- The entry for **mobileControlDo** (*command*) has been updated.
- The entry for **mobileControlSet** (*command*) has been updated.
- The entry for **open printing** (*command*) has been updated.
- The entry for **open socket** (*command*) has been updated.
- The entry for **play video** (*command*) has been updated.
- The entry for **popup** (*command*) has been updated.
- The entry for **print** (*command*) has been updated.
- The entry for **relayer** (*command*) has been updated.
- The entry for **replace** (*command*) has been updated.
- The entry for **request** (*command*) has been updated.
- The entry for **rotate** (*command*) has been updated.
- The entry for **save** (*command*) has been updated.
- The entry for **seek** (*command*) has been updated.
- The entry for **select** (*command*) has been updated.
- The entry for **send to program** (*command*) has been updated.
- The entry for **send** (*command*) has been updated.
- The entry for **set** (*command*) has been updated.
- The entry for **sheet** (*command*) has been updated.
- The entry for **show cards** (*command*) has been updated.
- The entry for **show groups** (*command*) has been updated.
- The entry for **show** (*command*) has been updated.
- The entry for **sort container** (*command*) has been updated.
- The entry for **sort** (*command*) has been updated.
- The entry for **split** (*command*) has been updated.
- The entry for **start editing** (*command*) has been updated.
- The entry for **start using** (*command*) has been updated.
- The entry for **start** (*command*) has been updated.
- The entry for **stop editing** (*command*) has been updated.
- The entry for **stop using** (*command*) has been updated.
- The entry for **stop** (*command*) has been updated.
- The entry for **subtract** (*command*) has been updated.
- The entry for **topLevel** (*command*) has been updated.
- The entry for **type** (*command*) has been updated.
- The entry for **undo** (*command*) has been updated.
- The entry for **ungroup** (*command*) has been updated.
- The entry for **unhilite** (*command*) has been updated.

- The entry for **union** (*command*) has been updated.
- The entry for **unlock cursor** (*command*) has been updated.
- The entry for **unlock screen** (*command*) has been updated.
- The entry for **visual effect** (*command*) has been updated.
- The entry for **wait** (*command*) has been updated.
- The entry for **write to driver** (*command*) has been updated.
- The entry for **write to file** (*command*) has been updated.
- The entry for **write to process** (*command*) has been updated.
- The entry for **write to socket** (*command*) has been updated.
- The entry for **hand** (*constant*) has been updated.
- The entry for **environment** (*function*) has been updated.
- The entry for **mobileCameraFeatures** (*function*) has been updated.
- The entry for **mobileControlGet** (*function*) has been updated.
- The entry for **mobileControlTarget** (*function*) has been updated.
- The entry for **mobileControls** (*function*) has been updated.
- The entry for **mobileGetContactData** (*function*) has been updated.
- The entry for **mobileGetDeviceToken** (*function*) has been updated.
- The entry for **specialFolderPath** (*function*) has been updated.
- The entry for **uuid** (*function*) has been updated.
- The entry for **URL** (*keyword*) has been updated.
- The entry for **array** (*keyword*) has been updated.
- The entry for **character** (*keyword*) has been updated.
- The entry for **long** (*keyword*) has been updated.
- The entry for **desktopChanged** (*message*) has been updated.
- The entry for **openBackground** (*message*) has been updated.
- The entry for **scrollbar** (*object*) has been updated.
- The entry for **behavior** (*property*) has been updated.
- The entry for **capStyle** (*property*) has been updated.
- The entry for **defaultMenubar** (*property*) has been updated.
- The entry for **endArrow** (*property*) has been updated.
- The entry for **filename** (*property*) has been updated.
- The entry for **fillGradient** (*property*) has been updated.
- The entry for **joinStyle** (*property*) has been updated.
- The entry for **lockUpdates** (*property*) has been updated.
- The entry for **miterLimit** (*property*) has been updated.
- The entry for **text** (*property*) has been updated.
- The entry for **urlResponse** (*Property*) has been updated.
- The entry for **vScroll** (*property*) has been updated.

## Previous Release Notes

6.5.1 Release Notes	<a href="http://downloads.livecode.com/livecode/6_5_1/LiveCodeNotes-6_5_1.pdf">http://downloads.livecode.com/livecode/6_5_1/LiveCodeNotes-6_5_1.pdf</a>
6.5.0 Release Notes	<a href="http://downloads.livecode.com/livecode/6_5_0/LiveCodeNotes-6_5_0.pdf">http://downloads.livecode.com/livecode/6_5_0/LiveCodeNotes-6_5_0.pdf</a>
6.1.3 Release Notes	<a href="http://downloads.livecode.com/livecode/6_1_3/LiveCodeNotes-6_1_3.pdf">http://downloads.livecode.com/livecode/6_1_3/LiveCodeNotes-6_1_3.pdf</a>
6.1.2 Release Notes	<a href="http://downloads.livecode.com/livecode/6_1_2/LiveCodeNotes-6_1_2.pdf">http://downloads.livecode.com/livecode/6_1_2/LiveCodeNotes-6_1_2.pdf</a>
6.1.1 Release Notes	<a href="http://downloads.livecode.com/livecode/6_1_1/LiveCodeNotes-6_1_1.pdf">http://downloads.livecode.com/livecode/6_1_1/LiveCodeNotes-6_1_1.pdf</a>
6.1.0 Release Notes	<a href="http://downloads.livecode.com/livecode/6_1_0/LiveCodeNotes-6_1_0.pdf">http://downloads.livecode.com/livecode/6_1_0/LiveCodeNotes-6_1_0.pdf</a>
6.0.2 Release Notes	<a href="http://downloads.livecode.com/livecode/6_0_2/LiveCodeNotes-6_0_2.pdf">http://downloads.livecode.com/livecode/6_0_2/LiveCodeNotes-6_0_2.pdf</a>
6.0.1 Release Notes	<a href="http://downloads.livecode.com/livecode/6_0_1/LiveCodeNotes-6_0_1.pdf">http://downloads.livecode.com/livecode/6_0_1/LiveCodeNotes-6_0_1.pdf</a>
6.0.0 Release Notes	<a href="http://downloads.livecode.com/livecode/6_0_0/LiveCodeNotes-6_0_0.pdf">http://downloads.livecode.com/livecode/6_0_0/LiveCodeNotes-6_0_0.pdf</a>