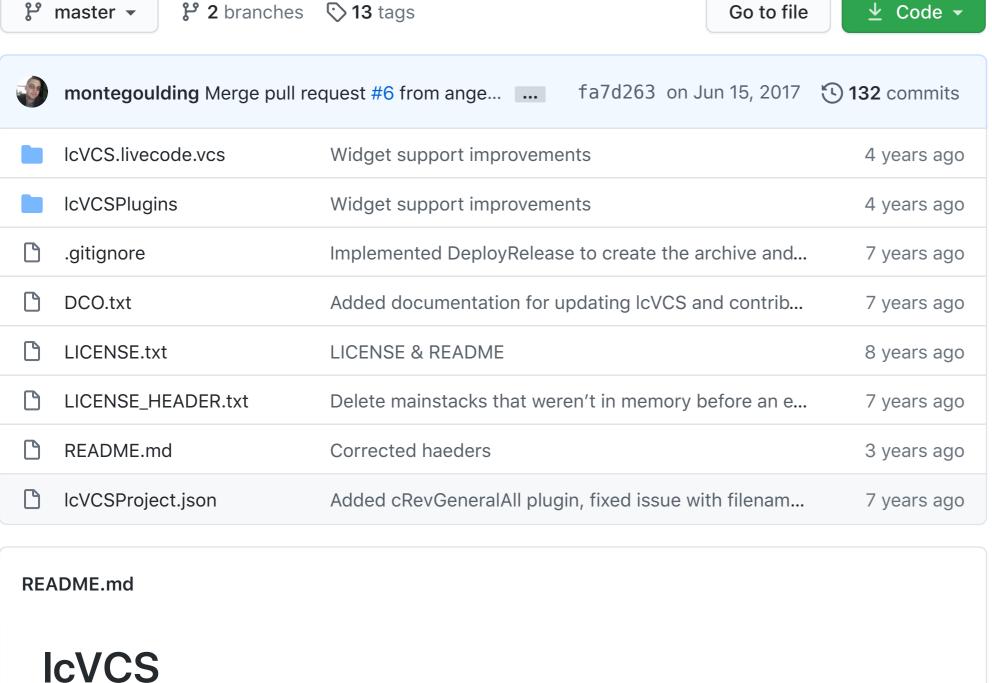
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Stackfile export/import for VCS support in LiveCode

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IcVCS exports and imports stack files to a structured folder of json, script and image files.

## **Project File**

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projects can be imported and exported independently.

ignored.

Folder structure

an extension of the paintCompression of the image object. An example path to an object properties file is therefore: stack.livecode.vcs/f7/8b57e1-8aed-4f01-9022-c3d47e231a2e/properties.json IcVCS also uses lists of UUIDs in files to reference child objects. The root directory has a

conflicts on these files IcVCS handles them in a specific way while importing. If it finds conflict markers it will strip them from the file. This may result in UUIDs being listed multiple times so the first occurance is the one that will be used. It may also result in UUIDs from

All data with the exception of custom properties is exported as utf8 so that it's possible for cross platform developers to work on the files without encoding issues creating conflicts. Any custom property that contains non ASCII characters is base64Encoded and wrapped in base64Decode() . This structure has been designed to resolve many of the issues there are with merging branches of stack files. Most of these issues relate to the fact that object ID conflicts are nigh on unresolvable. The project introduces a uVersion custom property set with the object UUID and its current ID as keys. When exporting if the ID of the object has changed a new UUID is generated. The uVersion custom property set is then redundant and not exported. The export includes object IDs, however, object IDs should not be used as constants to refer to objects because when the stack is regenerated the ID may be different if there was merge

property sets. Reducing false positive conflicts Because LiveCode stackfiles retain session changes between saves it's important to clear

lcVCSExport handler like this:

#### on lcVCSExport if the target is not me then exit lcVCSExport end lcVCSExport

Rules for successful use of IcVCS

with a name based reference.

export.

that there are no circular references. For example, stackFile A has an object reference to an object in stackFile B while stackFile B has an object reference to an object in stackFile A.

Order your stackFiles so that the stackFiles that have object references to objects in

other stackFiles are imported and exported after the stackFiles they refer to. The

• If you use IDs in scripts anywhere (such as setting the icon of a button) then replace it

Implement IcVCSExport handlers to ensure everything is set back to defaults during the

• If you have any custom objects or libraries that maintain custom property sets that store

IDs then implement a plugin to support it. The plugin api is quite simple and there's a

number of examples demonstrating their use. If possible contribute the plugin back to

- stackFiles list in the lcVCSProjects stack can be re-ordered by drag and drop. • If you have object references to objects that no longer exist (such as icons referencing deleted images) clear the property.
- JSONToArray and ArrayToJSON. LiveCode 6.5.1

#### mergJSON If you don't have a user extensions/Externals folder then create one. To find your user

Installation

 Copy mergJSON.bundle into your user extensions/Externals directory Add mergJSON,mergJSON.bundle to your Externals.txt file in you user extensions/External directory

Copy mergJSON.so into your user extensions/Externals directory

Add mergJSON,mergJSON.so to your Externals.txt file in you user

 Windows Copy mergJSON.dll into your user extensions/Externals directory

Linux

**IcVCS** • Copy lcVCS.livecode into your user extensions/Plugins directory

Copy the lcVCSPlugins folder into your user extensions/Plugins directory

- Get the repo if you think it's unlikely you will contribute
  - Browse to and choose the cloned repo You should now see lcVCS in the projects list
  - Create an account if you don't have one Click on the button to fork lcVCS

• Clone the repo using git clone https://github.com/<your username>/lcVCS.git or

preferably setup SSH keys on GitHub and use git clone git@github.com:<your

- username>/lcVCS.git • Enter the repo cd lcVCS
- Make the master branch track upstream/master rather than origin/master with git branch --set-upstream upstream/master master
- git pull Open IcVCS by choosing it from the Development > Plugins menu

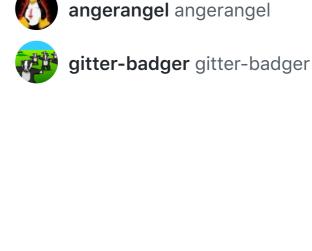
### When the import is complete the projects list will appear blank so just click the stack to trigger resumeStack and it will show the projects again

cd lcVCS

- Contributing to IcVCS
  - Follow the instructions above to fork IcVCS Branch from master before committing so you will always be able to pull master from the
  - Send a pull request from your branch against the upstream remote By sending a pull request you are agreeing to the Developer's Certificate of Origin found in DCO.txt
- GitHub Search IcVCS includes a GitHub search for IcVCS based projects. If you want your project to appear

in the list you just need to include IcVCS and LiveCode somewhere in the README of the repo. Just write something like This is project uses lcVCS to enable VCS support in a LiveCode project.

Contributors 3



montegoulding montegou...

About

of two branches that created objects. Properties that record IDs (icons, patterns, behaviors) are exported instead as UUIDs so they can be resolved correctly during the import. You may think this is crazy but just tell me what should happen when two branches create a new control and it's assigned the next available IDs (as LiveCode does) which therefore creates an id conflict... which one should be given the correct id? A plugin system supports the export and import of object references found in custom

anything that's likey to cause a false positive conflict between two versions. A good example of this is a resizable stack with a resizeStack handler that moves objects. This could cause a conflict on most of the controls on the stack. What we want to do is reset the stack to it's default state during the export. To help with this each object is dispatched a message lcVCSExport. lcVCS unlocks messages to dispatch the command so you can handle the message in the stack script and resize the stack triggering your resizeStack handler. Because the message is sent to every object the objects in the lower parts of the message heirarchy will recieve it multiple times. In any control that has a child control you will want to script your

the project so we can maintain them centrally. • Limit object references between stackFiles where possible. Where not possible ensure

**Dependencies** mergJSON which is a dual licensed (GPL/Commercial) JSON external for implementing

You will need mergJSON and the lcVCS stackFiles. Compiled versions can be downloaded

from here. If you don't have a mergExt account you can sign up for a free one.

#### • If you don't have an Externals.txt file in the user extensions/Externals folder then create one • OS X

extensions folder go to LiveCode prefs.

extensions/External directory

Keeping IcVCS updated via git

- Add mergJSON,mergJSON.dll to your Externals.txt file in you user extensions/External directory
- Clone the repo using git clone https://github.com/montegoulding/lcVCS.git Open IcVCS and click the + icon on the bottom left of the projects stack.
- Get the repo if you think you will probably contribute Go to GitHub
  - Add my repo as upstream with git remote add upstream https://github.com/montegoulding/lcVCS.git
- Updating the repo
- Choose IcVCS from the projects list on the left of the projects stack Click the Import Project button
- upstream remote Commit your changes using the --sign-off or -s option

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API