

QGIS Application - Feature request #3097

Add preference to set/override environment variables

2010-10-08 10:17 AM - William Kyngesburye

Status:	Closed	Resolution: Copied to github as #: 13157
Priority:	Low	
Assignee:		
Category:	GUI	
Pull Request or Patch Supplied:	Yes	
Easy fix?:	No	
Description		
<p>This is mainly for OS X, maybe Windows is similar? Could still be useful on *nix.</p> <p>On OS X, <i>applications</i> don't get any of the shell environment. It's just the way OS X works (generally no need for it from a purely OS X perspective). Applications still know about and can use environment variables, and there is a hidden and little-documented (if at all) method to set them for applications, but it is a hidden plist and really needs 3rd party software to safely and easily edit.</p> <p>Some (many?) Qgis plugins use unix-like tools, like GDAL, and need paths and configuration from the environment. Rather than having every developer remember to add a configuration menu to their plugins when environment variables are needed, I think Qgis needs a preference section to set environment variables that all plugins can use.</p> <p>Maintaining a list of arbitrary user-added variables would be ideal for future flexibility (who knows what a plugin will need). But if security is a concern, at least have a fixed list of common variables, like PATH, java-related, GDAL_SKIP, ...</p>		

Associated revisions

Revision 99edf1de - 2011-12-01 02:15 AM - Giuseppe Sucameli

[BACKPORT] find python on OSX (partially fix #3097)

don't overwrite PATH env var, but append to it.

Revision f093f517 - 2011-12-02 02:02 PM - Giuseppe Sucameli

[BACKPORT] find python on OSX (partially fix #3097)

don't overwrite PATH env var, but append to it.

History

#1 - 2010-10-31 09:37 AM - William Kyngesburye

Specific example: `[[GdalTools]]`. It does have a path configuration option, for where the GDAL programs are, but it's not enough. There are 2 problems:

- can't find python - the env PATH is empty, except for the configured path, so GDAL python programs can't find python to be able to run. This one is solvable by adding `/usr/bin` to the configured GDAL path, but a user shouldn't have to do this, and multiple paths in the setting is unintuitive considering that the choose button returns only a single path.
- can't find GDAL python extensions (#3170) - in a normal installation, this works, as GDAL python is in the standard user site-packages folder which python knows about. But when GDAL is bundled in the Qgis standalone application, python does not have the Qgis python folder in its `sys.path`, and any external python scripts, like many GDAL programs, can't import `gdal`. (external python scripts don't use the Qgis python interpreter)

#2 - 2011-11-30 05:25 PM - Giuseppe Sucameli

- Assignee deleted (nobody -)
- Pull Request or Patch supplied set to No

William Kyngesburye wrote:

- can't find python - the env PATH is empty, except for the configured path, so GDAL python programs can't find python to be able to run. This one is solvable by adding /usr/bin to the configured GDAL path, but a user shouldn't have to do this, and multiple paths in the setting is unintuitive considering that the choose button returns only a single path.

This part should be fixed in commit 99edf1de05231f422c9f2f6e2110709557f62ea2. I know it's not enough, but I'm working to fix it at all.

#3 - 2011-12-16 01:55 PM - Giovanni Manghi

- Target version changed from Version 1.7.0 to Version 1.7.4

#4 - 2012-04-15 10:10 AM - Giovanni Manghi

- Target version changed from Version 1.7.4 to Version 2.0.0

#5 - 2012-10-06 02:23 AM - Pirmin Kalberer

- Target version changed from Version 2.0.0 to Future Release - Nice to have

#6 - 2013-01-03 02:39 AM - Larry Shaffer

- Status changed from Open to Feedback
- Target version changed from Future Release - Nice to have to Version 2.0.0
- Pull Request or Patch supplied changed from No to Yes

Hi,

I've implemented a version of this in the following pull request:

<https://github.com/qgis/Quantum-GIS/pull/372>

Please test.

#7 - 2013-04-26 04:12 AM - Matthias Kuhn

- Status changed from Feedback to Closed

Resolved in commit:5cd7dc5

Please reopen if there are still problems.