

QGIS Application - Bug report #2793

Drag and Drop regression on Mac OSX

2010-06-07 11:21 PM - springmeyer -

Status:	Closed	
Priority:	Low	
Assignee:	Tom Elwertowski	
Category:	GUI	
Affected QGIS version:		Regression?: No
Operating System:	OS X	Easy fix?: No
Pull Request or Patch supplied:		Resolution: fixed
Crashes QGIS or corrupts data:		Copied to github as #: 12853
Description		
<p>In QGIS 1.4 on osx it is possible to both:</p> <ol style="list-style-type: none">1) Double click on one shapefile (with the .shp ext), have it open QGIS (if not previously open), and zooms to the layer's extent.2) Double click or drag and drop a second shapefile and have it automatically added to the layers list <p>In QGIS trunk (r13595), only the #3905 above works. Double-clicking or dragging and dropping a second shapefile prompts no response.</p> <p>While this may seems like a minor breakage in functionality, it is such a nice feature I've really come to depend on it, so +1 to keeping it working if possible.</p>		

History

#1 - 2010-06-08 07:06 AM - William Kyngesburye

Further clarification from my use: double-click a shapefile or drag-n-drop a shapefile onto the Qgis icon works *only* if Qgis is not already running. If Qgis is running, even with an empty layout, one must drag the shapefile into the layers pane of the window. If running, a drag-n-drop or double-click will activate the Qgis application, so the system seems to be sending the open file event to Qgis.

I'm using Qt 4.6. I don't remember if I saw this with Qt 4.5.

#2 - 2010-06-08 09:22 AM - springmeyer -

Yes, yes, yes, thats a better explanation of exactly what I am seeing.

#3 - 2011-01-06 03:32 PM - William Kyngesburye

It's now even worse - double-clicking or drag-n-drop onto QGIS do not work at all to open a GIS data file or a project file, not even if QGIS is not running. Though they still activate/start QGIS.

Dragging a data file (or a QGIS project file, odd) into the layers palette still works.

This is current SVN (commit:f3738369 (SVN r15000)), with Qt 4.7.

#4 - 2011-03-06 09:54 AM - William Kyngesburye

Hah! I found a reference in QApplication::macEventFilter, though not used in QGIS, that Mac events are handled differently in Qt Cocoa:

Cocoa uses a different event system which means this function is NOT CALLED when building Qt against Cocoa. If you want similar functionality subclass NSApplication and reimplement the sendEvent: message to handle all the NSEvents. You also will need to instantiate your custom NSApplication before creating a QApplication. See Apple's NSApplication Reference for more information.

So, the openDocumentsAEHandler() setup in main.cpp may not be called using Qt Cocoa. This is way beyond me to try to fix.

#5 - 2011-03-07 12:19 AM - Tom Elwertowski

- Status changed from Open to In Progress

Yes, a Cocoa vs. Carbon app is the cause of the problem.

I have been building both Qt/Carbon and Qt/Cocoa but using QGIS/Qt/Carbon because it works more reliably. I was still waiting for Qt/Cocoa to improve or for Qt to issue some instructions on what developers need to change.

While pursuing the details of NSApplication/QApplication interaction, I discovered QFileOpenEvent which reports "double clicking on a file icon in the Finder" among other things. It looks like it abstracts Carbon/Cocoa Open Document Apple Events so that separate code isn't needed for each.

Rather than writing Cocoa code to match the existing Carbon code, migrating to QFileOpenEvent may be a better solution.

#6 - 2011-03-07 05:00 PM - William Kyngesburye

Is that something you think you can do for the 1.7 release? Or would it affect other systems and require more work?

#7 - 2011-03-09 06:09 PM - Tom Elwertowski

- Resolution set to fixed

- Status changed from In Progress to Closed

Fixed in commit:f963d241 (SVN r15411).