

QGIS Application - Bug report #15829

georeferencer - logical error during loadGCPs

2016-11-10 01:37 AM - Mark Johnson

Status:	Closed	
Priority:	High	
Assignee:		
Category:	C++ plugins/Georeferencer	
Affected QGIS version:	2.18.0	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 23749
Description		
<p>While working on the georeferencer, I have noticed a logical error during the function 'loadGCPs'.</p> <p>When the .points file is being read, after reading each point, the function 'addPoint' is called.</p> <p>'addPoint'</p> <ul style="list-style-type: none">- creates a new QgsGeorefDataPoint- creates a SIGNAL for the QgsGeorefDataPoint- appends it to 'mPoints' <p>and then calls mGCPListWidget->setGCPList(&mPoints);</p> <p>which will (re-)build the QTableView with any needed calculations.</p> <p>In a case where there are 892 points</p> <ul style="list-style-type: none">- 'setGCPList' is called 892 times and takes a good minute to load <p>When this is corrected to call 'setGCPList' after the building of 'mPoints' has been completed</p> <ul style="list-style-type: none">- the loading takes a few seconds, since the QTableView is only being build once <p>Since the QTableView is not needed during the reading of the .points file</p> <ul style="list-style-type: none">- 'setGCPList' should only be called once		

Associated revisions

Revision 59a0e2fb - 2016-12-05 02:09 AM - Mark Johnson

Fix #15829 georeferencer - resolve logical error during loadGCPs

History

#1 - 2016-11-10 08:17 AM - Mark Johnson

This could then be something in the form of:

```
bool QgsGeorefPluginGui::loadGCPs( /*bool verbose*/ )
{
    QFile pointFile( mGCPpointsFileName );
    if ( !pointFile.open( QIODevice::ReadOnly ) )
    {
```

```

    return false;
}

clearGCPData();

QTextStream points( &pointFile );
QString line = points.readLine();
while ( !points.atEnd() )
{
    ...
    QgsPoint mapCoords( ls.at( 0 ).toDouble(), ls.at( 1 ).toDouble() ); // map x,y
    QgsPoint pixelCoords( ls.at( 2 ).toDouble(), ls.at( 3 ).toDouble() ); // pixel x,y
    QgsGeorefDataPoint* pnt;
    if ( ls.count() == 5 )
    {
        bool enable = ls.at( 4 ).toInt();
        pnt = new QgsGeorefDataPoint( mCanvas, mlfac->mapCanvas(), pixelCoords, mapCoords, enable);
    }
    else
        pnt = new QgsGeorefDataPoint( mCanvas, mlfac->mapCanvas(), pixelCoords, mapCoords,true);

    mPoints.append( pnt );
    connect( mCanvas, SIGNAL( extentsChanged() ), pnt, SLOT( updateCoords() ) );
    ++i;
}
mInitialPoints = mPoints;
mGCPsDirty = true;
}
if ( mGCPsDirty )
{
    mGCPListWidget->setGCPList( &mPoints );
    updateGeorefTransform();
    mCanvas->refresh();
    mlfac->mapCanvas()->refresh();
}

return true;
}

```

#2 - 2016-11-10 03:43 PM - Nyal Dawson

Mark - this looks good! Could you submit this as a pull request to the QGIS Github repo (<https://github.com/qgis/QGIS>)? That's the usual approach to get changes like this merged in.

#3 - 2016-11-11 09:18 AM - Mark Johnson

Done, see:

<https://github.com/qgis/QGIS/pull/3754>

please see the notes of the pull, since other files diff have been included.

#4 - 2016-12-04 05:21 PM - Mark Johnson

- *Status changed from Open to Closed*

Fixed in changeset commit:"59a0e2fb886fc0bcf620c860bba85d3863c46b73".