

## Dissect and dissolve overlaps Ver 0.3

### QGIS 3.22 LTR

#### WARNING

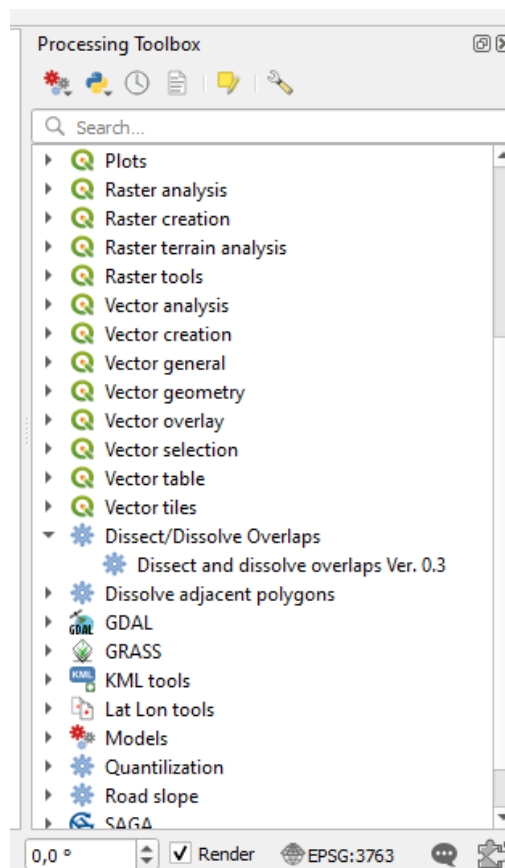
This plugin uses SAGA algorithms. Users must have a version of QGIS with SAGA enabled. Latest standalone Long Term Release is recommended (currently Version 3.22 LTR).

#### 1. Introduction

Use this plugin to detect if a polygon layer has two or more features (polygons) overlapping each other. In this case, the plugin can dissect the overlaps into distinct features and dissolve those features into the neighboring feature.

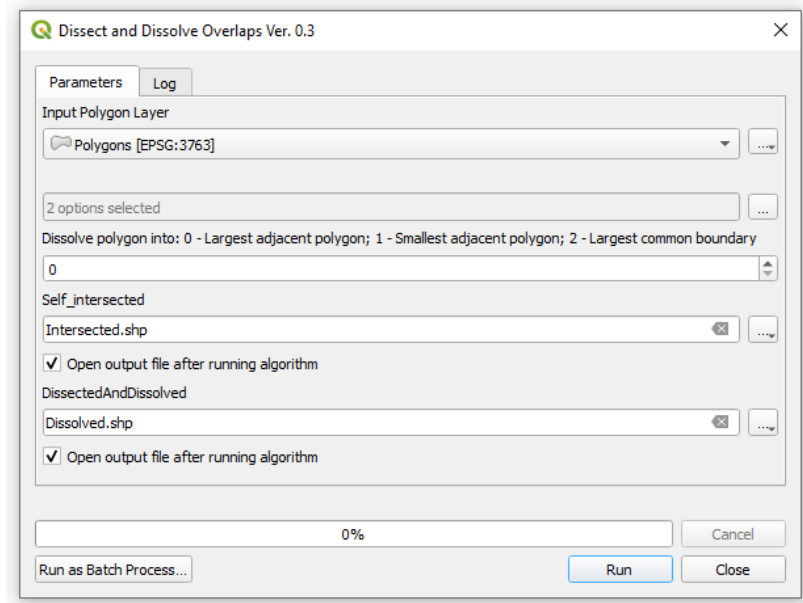
#### 2. Using the plugin

Run the plugin by double clicking *Processing Toolbox* -> *Dissect/Dissolve Overlaps* -> *Dissect and dissolve overlaps Ver. 0.3*, like the following image:



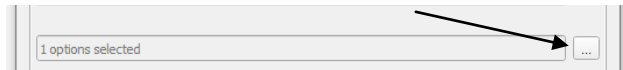
## Dissect and dissolve overlaps

This action opens the following plugin parameters window:

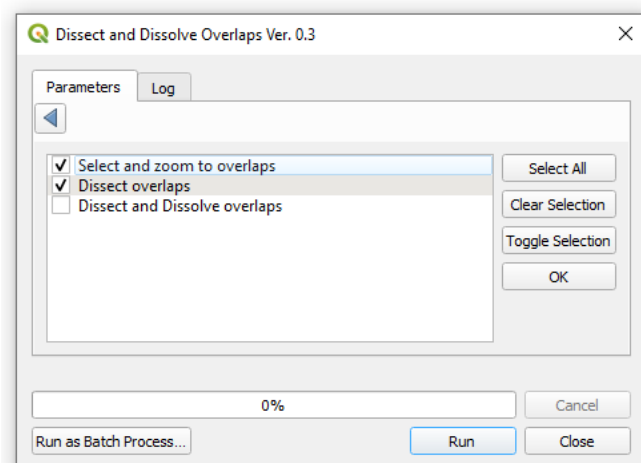


Where:

- *Input Polygon Layer*: user must choose a polygon layer in order to detect if there are overlapping features and, if so, proceed with the following options;
- *Options window*: to open options window, click on the ellipsis sign:

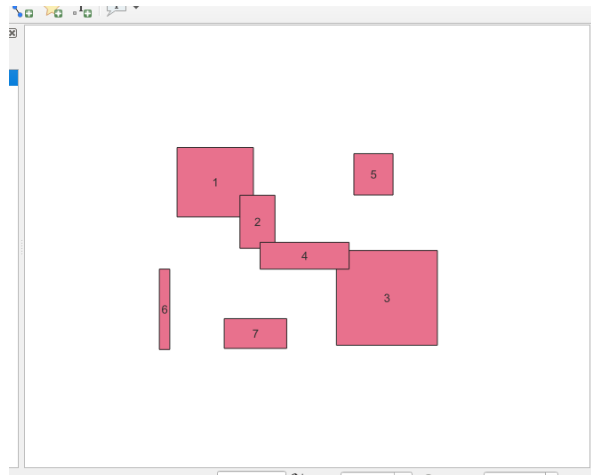


- *Options*: there are 3 options available:
  - o Select and zoom to overlaps (always active);
  - o Dissect overlaps;
  - o Dissect and dissolve overlaps;

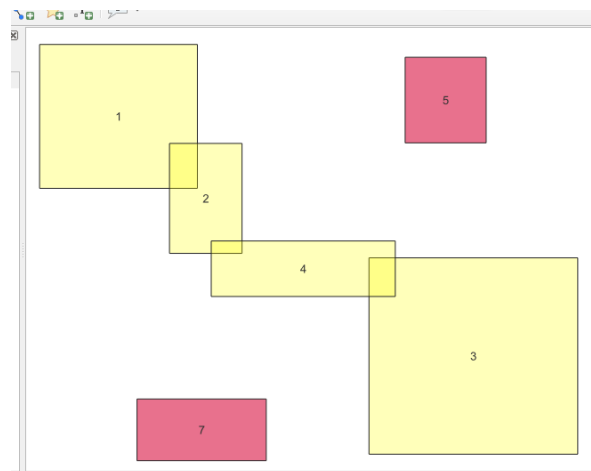


### *Dissect and dissolve overlaps*

- Select and zoom to overlaps: this option, that is always active, is used to detect if there are overlaps in the input polygon layer; if so, the features that overlap each other are selected, and the canvas zoomed to this selection;



In the above image of the canvas, feature 2 intersects parts of features 1 and 4, and features 3 and 4 intersect each other in part.



In the above image of the canvas, after running the plugin, the intersections of features 1, 2, 3 and 4 are detected, selected and zoomed to them.

- If input polygon layer has no overlaps: in this case, the plugin will issue a message, which will be visible for a period of ten seconds, closing automatically and ending the plugin execution (users should not try to close this window manually !);
- Dissect overlaps: if the previous option detects overlaps, and user have selected this one, the plugin will perform the dissection of the overlaps into distinct features, and will create a new shapefile layer, named "Intersected":

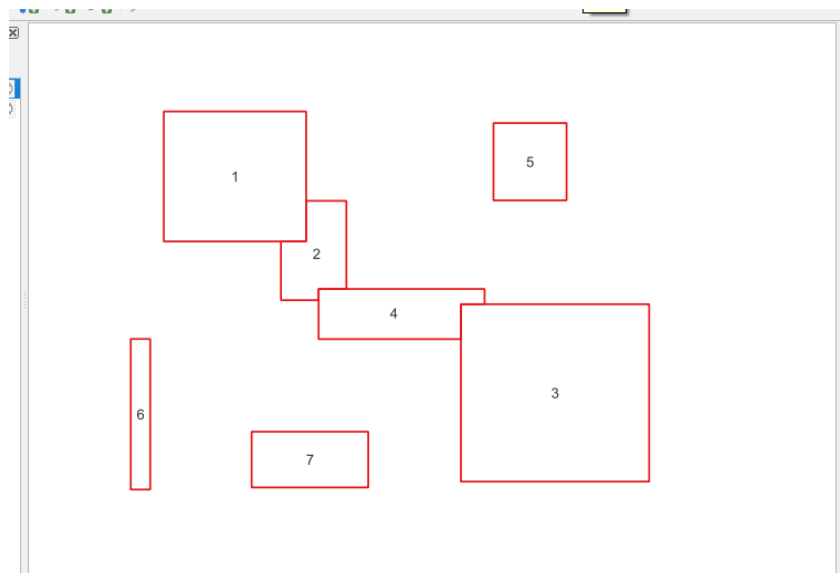
### *Dissect and dissolve overlaps*



In the above image of the canvas, after running the plugin with the option 2 selected, the intersections of features 1, 2, 3 and 4 are **dissected**, and a new shapefile layer were created with 3 new features, with ID = 2|1, 4|2 and 4|3.

This new shapefile layer will have a field named “ID”, where some features will have ID values like ‘2|1’, for example. This ID value means that this feature was the overlapping area of features ID=1 and ID=2.

- Dissect and dissolve overlaps: with this third option selected, the plugin will dissolve the new features created by the dissection of the overlapping areas, into the neighboring feature, and a new shapefile layer named “Dissolved” is created:



In the above image of the canvas, after running the plugin with the option 3 selected, the intersections of features 1, 2, 3 and 4 are **dissolved**, and a new shapefile layer were created.

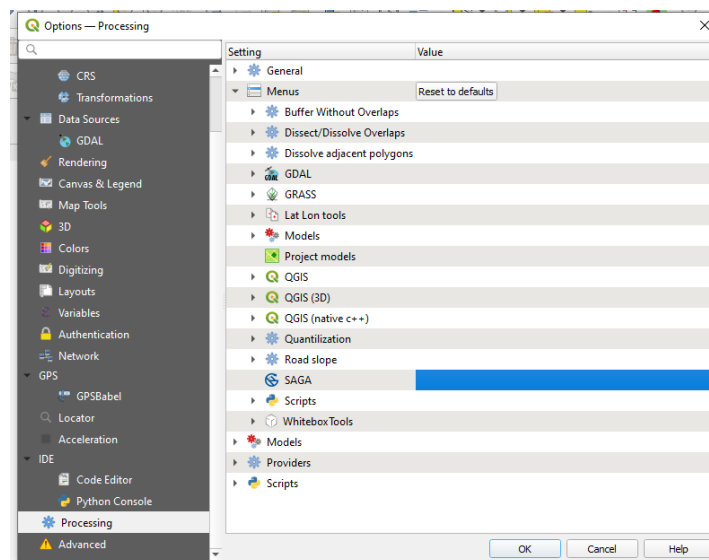
- Please note: with this third option selected, the dissolve result may not be what users are expecting; in this case, use only the second option (or the first and the second options), that create a shapefile polygon layer without overlaps, and then decide what to do. These new shapefile layers are created at the following path:

Settings -> User Profiles -> Open Active Profile Folder -> processing -> outputs

- *Dissolve polygons into*: user may choose the way overlaps are dissolved into neighboring features with the following options: 0-Largest adjacent polygon; 1-Smallest adjacent polygon; 2-Largest common boundary.

### 3. Checking if your installation has SAGA enabled

To check if your QGIS installation has the SAGA app, open the Processing options, and in "Menus" check if there is a SAGA menu, as in the image below:



If there is a SAGA menu, open the Providers menu and enable SAGA:

## *Dissect and dissolve overlaps*

