

# QGIS Application - Bug report #21336

## self node is considered as an error by processing

2019-02-21 04:17 PM - Alain FERRATON

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Processing/Core	
<b>Affected QGIS version:</b> 3.4.4	<b>Regression?:</b> No
<b>Operating System:</b>	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	<b>Copied to github as #:</b> 29154
<b>Description</b>	
self node is considered as an error by processing (which inhibits the execution of algorithms)	
while the algorithm "verify validity" does not detect an error. which is normal because it is not (according to GEOS or QGIS standards).	

### Associated revisions

#### Revision 4e04d022 - 2019-02-26 09:05 PM - Nyal Dawson

By default, validity check should treat ring self intersections as invalid

We use the OGC definition of validity to ensure consistent results with PostGIS, GDAL, etc

Fixes #16418, fixes #21336

#### Revision 49742c30 - 2019-02-26 09:05 PM - Nyal Dawson

[needs-docs][processing] Add option to check validity alg to ignore self-intersection causing rings errors

By default the algorithm now uses the strict OGC definition of polygon validity, where a polygon is marked as invalid if a self-intersecting ring causes an interior hole.

If the "Ignore ring self intersections" option is checked, then this rule will be ignored and a more lenient validity check will be performed.

Refs #16418, refs #21336

#### Revision 25a42a9f - 2019-03-05 02:08 AM - Nyal Dawson

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Fixes #16418, fixes #21336

(cherry picked from commit 4e04d02293637923e065afba3f3b962249a9ca78)

#### Revision 850905e7 - 2019-03-05 02:08 AM - Nyal Dawson

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Refs #16418, refs #21336

(cherry picked from commit 49742c302afb97e6272ce8b6b3a806014cdbdb5b)

#### Revision 49798918 - 2019-03-07 03:02 AM - Nyal Dawson

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We use the OGC definition of validity to ensure consistent results with PostGIS, GDAL, etc

Fixes #16418, fixes #21336

(cherry picked from commit 4e04d02293637923e065afba3f3b962249a9ca78)

#### Revision 4cd9c110 - 2019-03-07 03:02 AM - Nyal Dawson

[needs-docs][processing] Add option to check validity alg to ignore self-intersection causing rings errors

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Refs #16418, refs #21336

(cherry picked from commit 49742c302afb97e6272ce8b6b3a806014cdbdb5b)

(cherry picked from commit 66cd7e93024f432a9ebd98258dee74ac49834d1f)

## History

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### #1 - 2019-02-21 04:18 PM - Giovanni Manghi

- Category changed from Processing/GUI to Processing/Core

### #2 - 2019-02-26 09:04 PM - Nyal Dawson

- % Done changed from 0 to 100

- Status changed from Open to Closed

Applied in changeset commit:qgis|4e04d02293637923e065afba3f3b962249a9ca78.

## Files

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sample.zip	1.84 KB	2019-02-21	Alain FERRATON
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