

# Application: gvSIG desktop - gvSIG feature requests #3113

## Add a new geometric command type in the Field Calculator

01/16/2015 04:32 PM - Antonio Falciano

<b>Status:</b>	Outdated	<b>% Done:</b>	0%
<b>Priority:</b>	Normal	<b>Spent time:</b>	0.00 hour
<b>Assignee:</b>			
<b>Category:</b>	Document table		
<b>Target version:</b>	2.5.0-2911 (rev. org.gvsig.desktop-2.0.239)		
<b>gvSIG version:</b>	2.1.0	<b>Add-on resolve version:</b>	
<b>Keywords:</b>	geometry, command, function, expression	<b>Add-on resolve build:</b>	
<b>Has patch:</b>		<b>Projecto:</b>	
<b>Add-on name:</b>	Tools: Field calculator (org.gvsig.expressions)	<b>Hidden:</b>	
<b>Add-on version:</b>			

### Description

Because there are some "hidden" functions about geometries that work in the Field Calculator (see #3079#note-6), such as:

```
[GEOMETRY].centroid().getX()
[GEOMETRY].centroid().getY()
[GEOMETRY].getNumVertices()
[GEOMETRY].getVertex(0).getX()
[GEOMETRY].getVertex(0).getY()
[GEOMETRY].getBounds().getWidth()
[GEOMETRY].getBounds().getHeigth()
etc.
```

a good enhancement of Field Calculator would be to create a new Geometric command type (in addition to Numeric, String and Data ones) in order to group all the geometries related commands/functions, such as x(), y(), area(), perimeter(), centroidX(), centroidY(), numVertices(), etc. masking the whole stuff behind (e.g. "[GEOMETRY].centroid().getX()") and making them more user-friendly.

### Related issues:

Related to Application: gvSIG desktop - gvSIG feature requests # 3079: Skip t...	<b>Invalid</b>	<b>12/18/2014</b>
Related to Application: gvSIG desktop - gvSIG feature requests # 4945: [PG] N...	<b>Closed</b>	<b>10/22/2018</b>

### History

#### #1 - 01/16/2015 05:09 PM - Álvaro Anguix

- Related to gvSIG feature requests #3079: Skip the GEOMETRY field from Filter added

#### #2 - 01/16/2015 05:14 PM - Antonio Falciano

I forgot to mention other useful functions about geometries:

```
[GEOMETRY].isValid()
[GEOMETRY].isSimple()
[GEOMETRY].getType()
```

#### #3 - 11/09/2017 08:35 PM - Antonio Falciano

- Target version set to 2.5.1-3044

Nice to have in order to improve the usability of these "hidden" functions.

**#4 - 02/10/2019 09:36 PM - Joaquín del Cerro Murciano**

- Related to gvSIG feature requests #4945: [PG] Nuevo dialogo generador de expresiones added

**#5 - 02/10/2019 09:36 PM - Joaquín del Cerro Murciano**

- Target version changed from 2.5.1-3044 to 2.5.0-2911 (rev. org.gvsig.desktop-2.0.239)

- Status changed from New to Outdated

**#6 - 02/10/2019 09:42 PM - Joaquín del Cerro Murciano**

Se ha preparado un framework para manejo y evaluacion de expresiones con un asistente grafico. Se ira introduciendo este nuevo asistente en las partes que proceda de gvSIG, de momento en la seleccion por atributo y en el gestor de columnas para los campos calculados. La calculadora de campos se esta implementando de cero como un script usando las nuevas funcionalidades, y sustituirá a la antigua en cuanto este disponible.