# gvSlG Desktop: written in Java, extendable through Scripting



# gvSIG Desktop

### **Main Features**

- Open Source
- Java (jts, gdal, geotools...)
- Plugable
  - Java Plugins
  - Scripting Plugins
- Actual version 2.4.1
- Road to 3.0
  - Improvements in Raster





## Choose wisely

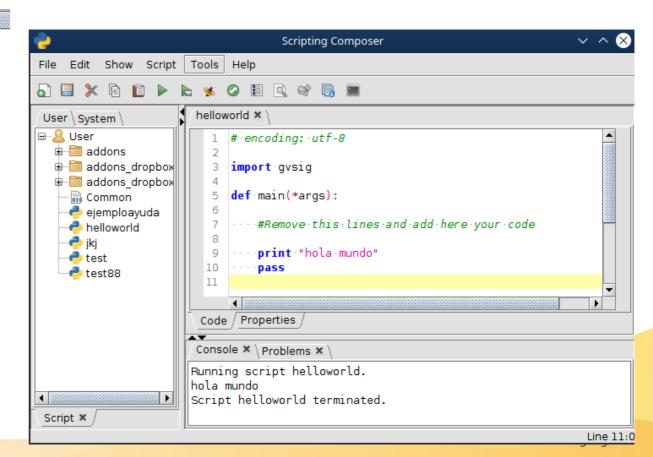
- Do you need to create a new plugin for gvSIG Desktop?
  - Java
    - Good for arquitecture (gvsig core)
    - Bad for a helloworld
  - Scripting
    - Easy (Less code with Jython)
    - Fast (gvsig libraries for Python, gvpy,..)
    - IDE inside gvSIG (Integrated development environment)
    - Test and run without leaving/restarting gvSIG
    - Other integrations (R)



### Hello World

#### Basic script

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#### Hello World

Easy to share

2	Scripting packager	$\sim$ $\sim$ $\otimes$	
Package descriptio	n		
Туре	Script	-	🥠 Add-ons manager
Code	CSVWizard		-Select installation source
Name	CSV Wizard		<ul> <li>Standard installation (install add-ons contained in the gvSIG standard distribution)</li> </ul>
Description	noiscence para la carga ao neneros con como capa y casiar		<ul> <li>Installation from file (install add-ons contained in a .gvspki or .gvspks file)</li> </ul>
	Permite ajustar la configuracion de carga del CSV y previsualizarlo para asegurar la correcta configuracion antes de realizar la carga de este.		<ul> <li>Installation from URL (install add-ons from a remote repository)</li> </ul>
Categories			Testing gvSIG repository - http://downloads.gvsig.org/download/gvsig-desktop-testing
Version	1.0.0-7		
Build	7		
State	testing	<b></b>	
Official	Official	<b></b>	
Source code URL			
Package owner			
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Operating System	all		
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	all		
Java version	Java 1.7		
gvSIG version	2.4.0		
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## Easy

- Jython
  - Implementation of Python in Java
  - Work with Java using Python syntax
  - Available with Java & Python libraries (some limitations)
- Easy to learn for people without programming knowledge
  - Create a geoprocess in a few lines
- Powerful → Not limited for not using Java
- Easy to create buttons, toolbox, menus,.. for execution







#### Fast

- Less code with Jython
  - Compared with Java

#### Libraries in Python for gvSIG

- Only access from Jython
- gvsig
  - Utils: createShape(), currentLayer()
  - Added methods to Java classes
- **gvpy**: execute a geoprocess with one line of code
- Formpanel: easy and fast to create UI and events

```
gvpy.runalg("randomvector",10, 0)
gvpy.runalg("randomvector",10, gvpy.TYPE_POLYGON)
```





#### Fast

#### Formpanel

	# encoding: utf-8	
2		
3	import gvsig	
4	from gvsig import geom	
5	<pre>from gvsig.libs.formpanel import FormPanel</pre>	
6	import os	
7		
8	from process import countCells	-
9		_
0	<pre>class Alcance(FormPanel):</pre>	File Ed
.1	<pre>definit(self):</pre>	
.2	·····FormPanelinit(self,	
.3	<pre>gvsig.getResource(file,"alcance.xml"))</pre>	N:
.4		Т 🗐
.5	<pre>def btnProcess_click(self, *args):</pre>	۰ 🗉
.6	·····rasterLayer = gvsig.currentLayer()	
.7	······ <b>if</b> rasterLayer == None:	
.8	<pre>self.txtH.setText("Ninguna.capa.seleccionada")</pre>	
.9	·····return	
20	<pre>valueLimit = float(self.txtValue.getText())</pre>	
21	·····store·=·rasterLayer.getDataStore()	
22	<pre>h.=.countCells(store, valueLimit)</pre>	
23	<pre>self.txtH.setText(str(h))</pre>	
24	····· <b>print</b> ·"Hectareas:·",·h	•
25		-T-
26		
27	def main(*args):	- [
28	$\cdots l = Alcance()$	🚥 T
29	····l.showTool("Alcance")	
30	Pass	

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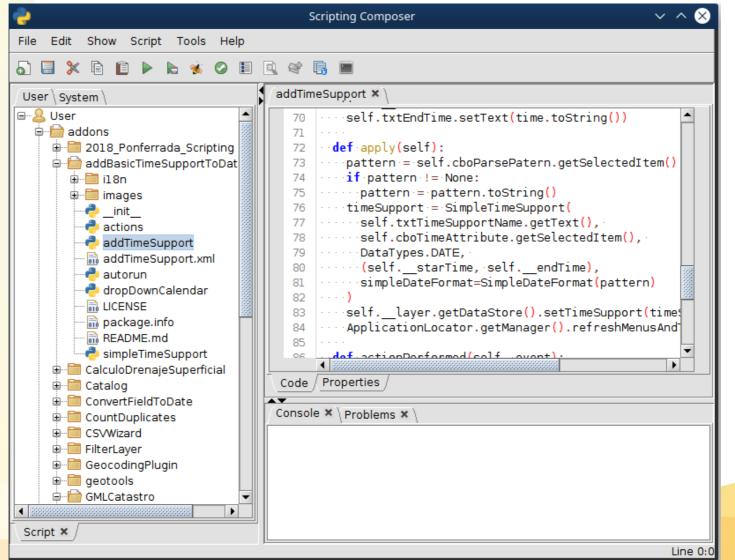
# **Development IDE inside gvSIG**

Already in your installation

🥵	gvSIG 2.4.0.2850 final : Untitled
<u>File Layer Show View Map Tools Window Help</u>	
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H2 Spatial	
<u>O</u> racle	
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Development	
Geoprocessing	
😰 Quickinfo	



#### IDE inside gvSIG





#### **Scripting**ComposerTools

	<ul> <li>Find identifier</li> </ul>
Celtor de Scripts	Find class declaration
Archivo Editar Mostrar Script Ayuda Herramientas	Find method declaration
	0
	<ul> <li>Find function declaration</li> </ul>
<pre>selectionorder.py selectionorder.py selectionorder.py setTreeAsSelectionOr updateAll G UpdateListener</pre>	Scope: Current fie selectionorder (addons/TabbedToC/selectionorder.inf) Current folder TabbedToC (addons/TabbedToC) Custom Custom User addons Custom CalculoDrenajeSuperficial CalculoDrenajeSuperficial ConvertFieldToDate CSVWizard
Script × Navigator × /	16
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References to:

CreatePolygon

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Cancel

Find

Find references



Develop	oment	<pre>selectionorder × README.md × \     1 # Catalog     2</pre>
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#### **Scripting**ComposerTools

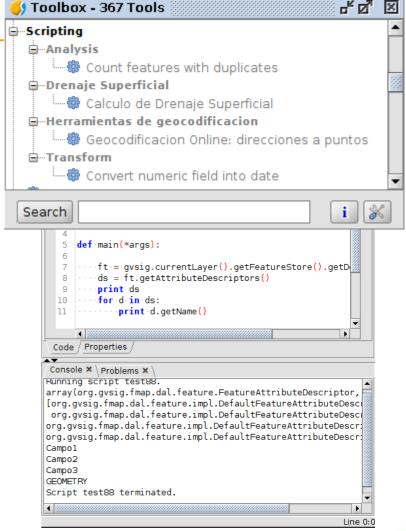
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## <mark>Test an</mark>d run

- Workflow (depending of the plugin)
  - Create
  - Execute
  - Test and check result
  - Modify
  - Execute
  - Test and check result
  - • •
- Work directly with gvSIG
  - Access to the active Layer, selected features, ...





#### Integration with R

- Install R plugin from Addons Manager
- Execute R code from a script

Usuario Sistema	ejemplo 🗙 rejemplo 🗙	
User User 12gvsig _Rtaller_final 12jornadasR addons Previous version taller-12jornadas-r taller-2jornadas-r ejemplo ejemplo	<pre>7print.msg, 8 9 def.main(*args): 10R.=.rlib.getREngine(console) 11#.Caso.de.que.la.capa.se.encontrara.en.carpeta.data 12#b4_path.=.gvsig.getResource(_file,."data", ."feb_B4.tif") 13 14#.Caso.de.una.capa.cargada.en.una.Vista.de.gvSIG 15b4.=.gvsig.currentView().getLayer("feb_B4") 16 17#.La.funcion.getPathName.se.encarga.de.extraer.el.path.por.nosotros 18b4_path.=.R.getPathName(b4) 19 20R.setwd(R.getPathName(gvsig.getResource(_file,."data","rejemplo.r")) 21R.source(R.getPathName(gvsig.getResource(_file,"data","rejemplo.r")) 22#.Agregamos.un.parametro.a.la.funcion 23R.call("mytest",.b4_path) 24R.end() </pre>	
	Consola 🗙 Problemas 🗙	
	<pre>source("D:/gvSIG-desktop-2.3.1-2501-final-win-x86_64/home/gvSIG/plugins/or &gt; mytest("D:/gvSIG-desktop-2.3.1-2501-final-win-x86_64/home/gvSIG/plugins/ Rtaller_final/data/feb_B4.tif")</pre>	
	Capa: D:/gvSIG-desktop-2.3.1-2501-final-win-x86_64/home/gvSIG/plugins/org Rtaller final/data/feb B4.tif>	
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#### Geoprocess

 Add a geoproce to the Toolbox

#### process

		p100000
	14	<pre>class Desplazamiento(ToolboxProcess):</pre>
	15	<pre>def defineCharacteristics(self):</pre>
	16	<pre>self.setName("Desplazamiento.en.X.e.Y")</pre>
	17	·····self.setGroup("Vectorial")
	18	<pre>params = self.getParameters()</pre>
	19	······params.addInputVectorLayer("LAYER", "Capa de entrada", SHAPE_TYPE_POINT, True)
	20	<pre>verse params.addNumericalValue("X", "X_traslation", 0, NUMERICAL_VALUE_DOUBLE)</pre>
000	21	<pre>params.addNumericalValue("Y", "Y_traslation", 0, NUMERICAL_VALUE_DOUBLE)</pre>
ess	22	<pre>self.addOutputVectorLayer("RESULT_POINT", "XYShift_point", SHAPE_TYPE_POINT)</pre>
	23	
	24	<pre>def processAlgorithm(self):</pre>
	25	·····features·=·None
	26	·····try:
	27	·····params·=·self.getParameters()
	28	<pre>layer = params.getParameterValueAsVectorLayer("LAYER")</pre>
	29	······x·=·params.getParameterValueAsDouble("X")
	30	······································
	31	<pre>input_store = layer.getFeatureStore()</pre>
	32	<pre>features = input_store.getFeatureSet()</pre>
	33	<pre>output_store = self.buildOutPutStore(</pre>
	34	·······features.getDefaultFeatureType(),
	35	SHAPE_TYPE_POINT,
	36	······*"XYShift_points",
	37	
	38	$\cdots$
	39	<pre>self.setRangeOfValues(0, features.getSize())</pre>
	40	······································
	41	if self.isCanceled():
	42	print "Proceso cancelado"
		····break
ig.getResourc	e(f	<pre>ile_,"il8n")))</pre>
		<pre>geom = newfeature.getDefaultGeometry()</pre>
		geom.move(x,y)
		output_store.insert(newfeature)
		·n+=1
	50	·····self.setCurValue(n)
	51	output_store.finishEditing()
	52	·····finally:
	53	·····DisposeUtils.disposeQuietly(features)
	54	······ <b>print</b> ·"Proceso·terminado·%s"·%·self.getCommandLineName()
	55	····· <b>return</b> · True
	56	

#### autorun

13 def selfRegister(\*args): 14 ····i18nManager - ToolsLocator.getI18nManager() il8nManager.addResourceFamily("text",File(gvsi 15 16 · process = Desplazamiento() 17 18 process.selfregister("INEGI") process.updateToolbox() 19



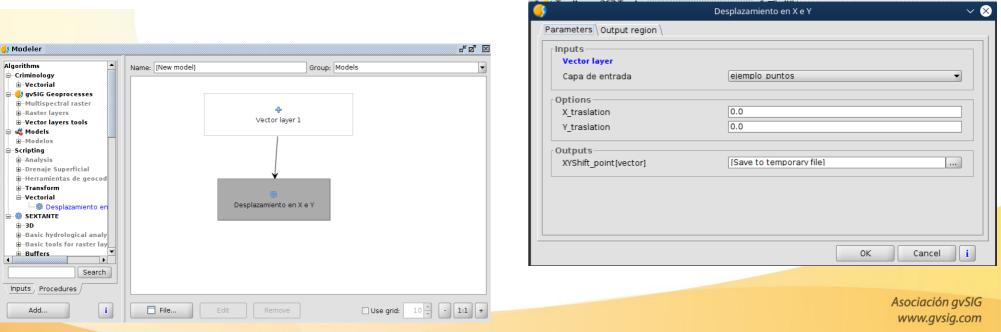
#### **Geopro**cess

• Use it from the model builder

<mark>or gv</mark>py

gvpy.runalg("randomvector",10, 0)
gvpy.runalg("randomvector",10, gvpy.TYPE\_POLYGON)

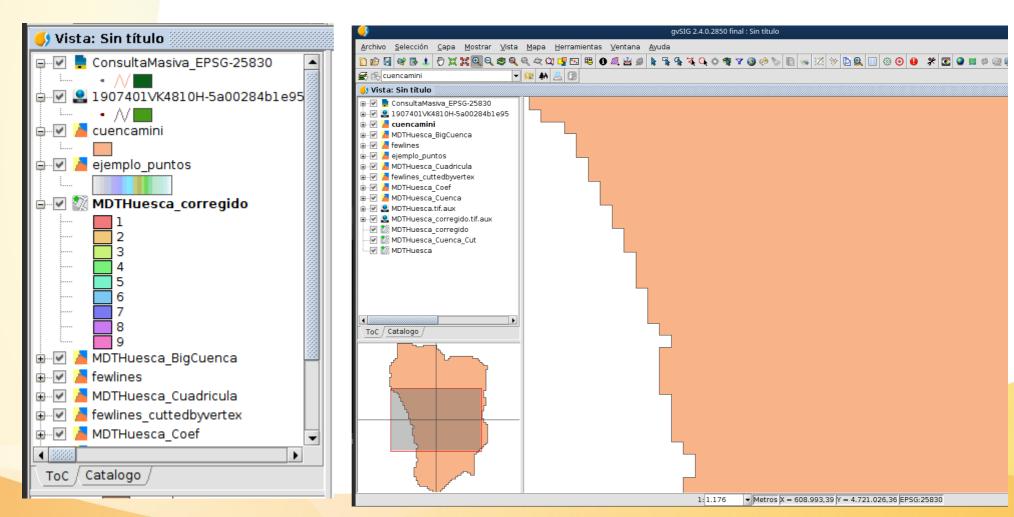






### **Table of Contents (ToC)**

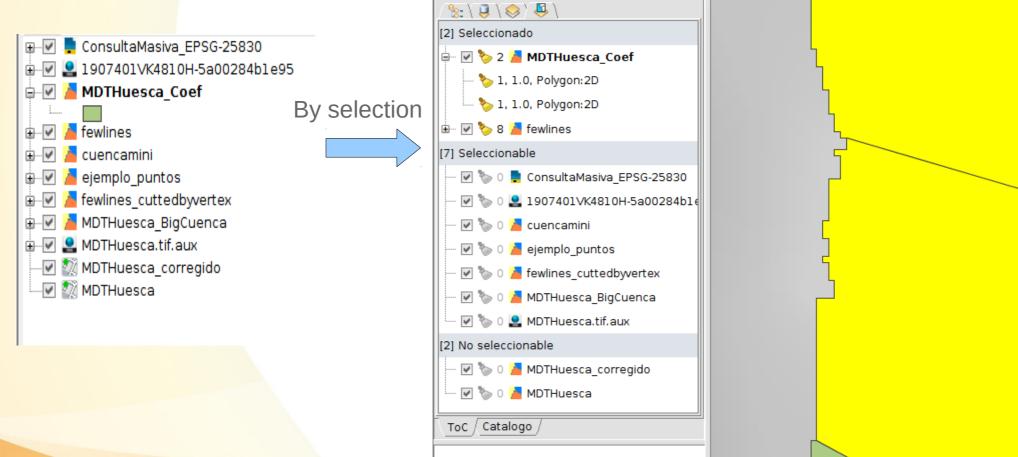
Basic from Java





### **Table of Contents (ToC) → TabbedToC**

Advanced plugin created from Scripting



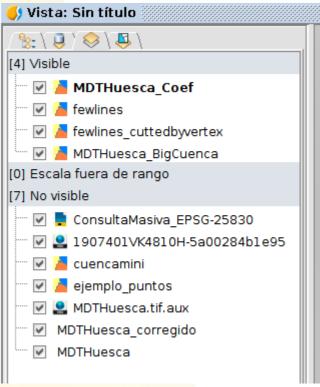
🔰 Vista: Sin título

https://github.com/gvSIGAssociation/gvsig-desktop-scripting-TabbedToC

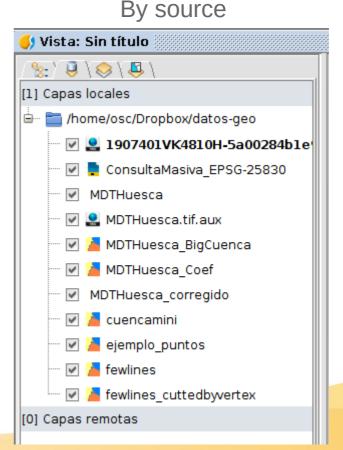


## **Table o**f Contents (ToC) → TabbedToC

Advanced plugin created from Scripting



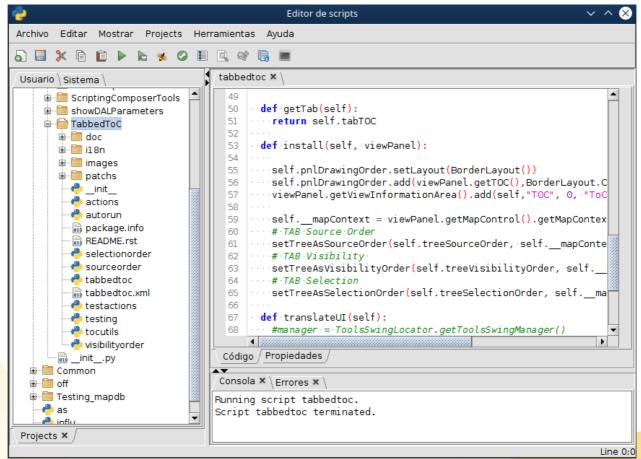






#### **Table of Contents (ToC) → TabbedToC**

Advanced plugin created from Scripting



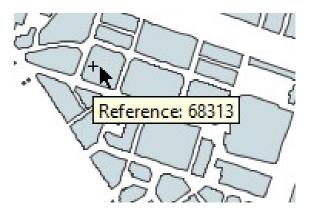
https://github.com/gvSIGAssociation/gvsig-desktop-scripting-TabbedToC



# Example Quick Info

New type of data visualization

🤣 Layer properties	- • •
General Symbols Labelling Hyperlink Metadata 3D Quickinfo	
○ Use a field Select field to show in the 'tip'	
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Use expression	
"Reference: %s" % refman	Fields
Test	refman pob_0_14 pob_15_65 pob_66_mas pob_total GEOMETRY
Cancel	Apply Arcept

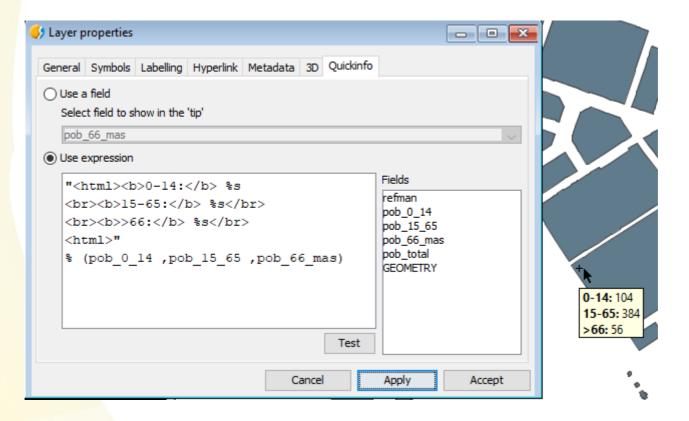


https://blog.gvsig.org/2017/12/15/towards-gvsig-2-4-quick-info-tool/ https://github.com/gvSIGAssociation/gvsig-desktop-scripting-quickinfo



# Example Quick Info

New type of data visualization



https://blog.gvsig.org/2017/12/15/towards-gvsig-2-4-quick-info-tool/ https://github.com/gvSIGAssociation/gvsig-desktop-scripting-quickinfo



# Example CSV Wizard

Advanced tool for import CSV

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	Comment start marker
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	Options separator     O     Use separator
	○ Tab key ○ Comma   ③ Semicolon   ○ Space ○ Other
	Text delimiter Escape character
	○ Use fixed width
	Columns 0
	Columns
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	RCUFIUNILATLONGDMS_LATDMS_LONGMGRSJOGFCDSGPCCC1ADM1P0PELEVCC2NTLCSHORT_F0I
	1 1-398008-58715042.666667142:40:00N1:00:00E31TCH3610225739NK31-04TMTSSP00ANNPI 2 1-1408341-202181543.5166671.41666743:31:00N1:25:00E31TCJ7203119410NK31-01HSTMF
	3 1-406187-60051642.351.4542:21:00N1:27:00E31TCG7233789801NK31-04HSTMSP00ANNRIU
	4 1-383259-57085642.4333331.48333342:26:00N1:29:00E31TCG7524899005NK31-04HSTMAN 5 1-1396947-200479342.61.73333342:36:00N1:44:00E31TCH9608817175NK31-04TPKAN,FRAN
	Advanced Accept Cancel

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https://github.com/gvSIGAssociation/gvsig-desktop-scripting-CSVWizard



#### **Mobile** forms

Create mobile forms

Mobile for	ns designer			- 6 X			
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Seccion	Árboles 🗸 🖉 🖉						
Descripción							
Formulari	os \ Previsualizaci	ón \					
Inventario	,			- 5 5 5			
Campos							
Nombre [string] Fecha_dato [date] Monumental [boolean]		Tipo Clave	connectedstringcom	bo			
connected	connectedstringcombo	Etiqueta					
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		v	item				
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		Valores	Ciprés Olivo	Adoptar Cancelar			
		Naranjo Limonero					
			<b>☆ ♥ ■ ⊕</b>				
			Variedad 1				
	<b>☆ ♥ # </b> ⊕	]		<b>☆ ♥ #</b> ₽			



### Report by point

Generate a point with the info in all the layers in a view

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				_Repor	t									
					Report for point: POINT (480649.8580743211 6203454.93365588)									
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### **Quick Export Map**

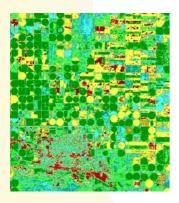
Create quick map

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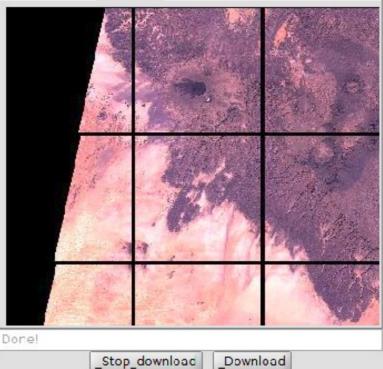
# Sentinel Downloader

 Search and download Sentinel products





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7





# **Other t**ype of plugins

- GMLC atastro  $\rightarrow$  create new export format file
- CadastralDownloader → download municipalities
- Geocoding Online  $\rightarrow$  using python libraries
- SimpleLogin → Basic user system





# +Info Official docs

- gvsig.com
- blog.gvsig.com
  - Workshops
- Mailing list
- Scripting guide 2.4
- Youtube
  - Gvsig + scripting





gvSIG

info@gysig.com

aquin Jose del Cen jdeloerro@gynig.com Óscar Martinez

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Seminario de introducción a la programaci Responsable de **scripting** 3 ...

#### APRENDE SCRIPTING EN gvSI

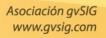
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Más vídeos de la colección en los siguient gvSIG EN MEDIA HORA ...

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Más vídeos de la colección en los siguient SCRIPTING EN gvSIG ...

13as Jornadas Int. gvSIG: Talle

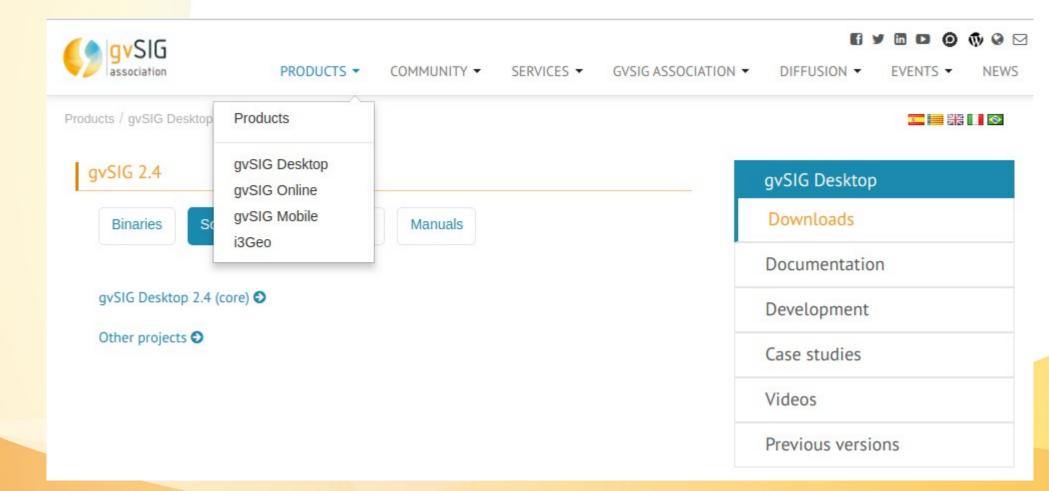




# +Info

#### Code

Source code





# +Info Code

#### Github https://github.com/gvSIGAssociation

gvSIG Association           The gvSIG Association aims for the gvSIG and gvNIX proje                •> http://www.gvsig.com	ects sustainability and the deve	elopment of the Free Geomatics	
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Search repositories Type: All -	Language: All -	Customize pinned repositories	New
<b>gvsig-online</b> Web platform for simplified creation and management of geoportals and Spatial Data Infrastructures (mirror from official SVN) • Python 1 1 1 Updated 4 days ago	mmm	Top languages <ul> <li>Python</li> <li>Java</li> <li>HTML</li> <li>JavaScript</li> <li>CSS</li> </ul>	
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# omartinez@gvsig.com

# @masquesig / masquesig.com

# Óscar Martínez

# ¡Thanks!

