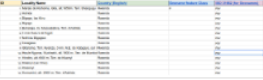


























CANAHIST GIS Template HowTo

The CANAHIST GIS Template is a google sheet with Appscripts allowing to connect the API of several geoinformation tools such as Geonames, Nominatim or Photon. It links also to the existing locality names already encoded in the RBINS and AfricaMuseum DaRWiN CMS.

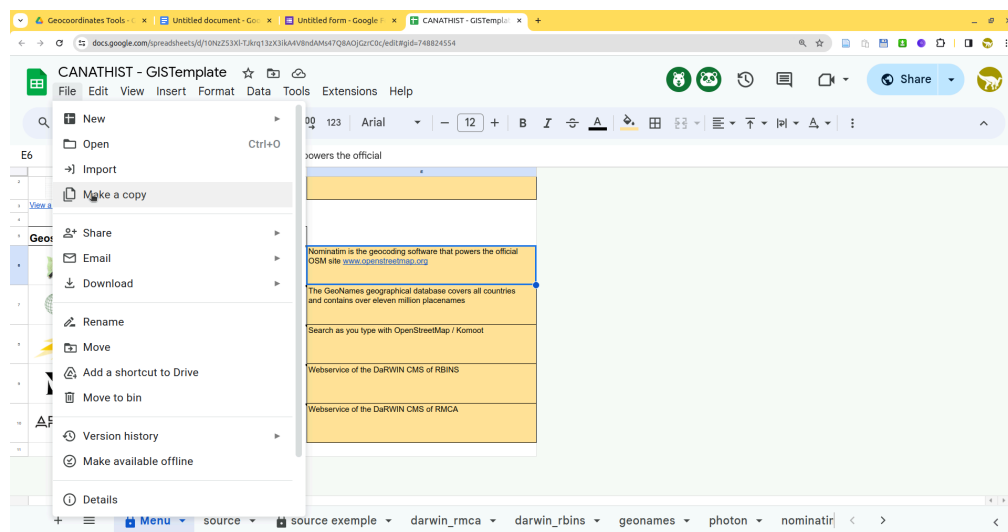
	A	B	C	D	E
1	Data Source		Input	Erase	
2					Source TAB where you can fill a the localities
3	View a source sheet example				
4					
5	Geoservices	Search	Results	Erase	
6	 Nominatim				Nominatim is the geocoding software that powers the official OSM site www.openstreetmap.org
7	 GeoNames				The GeoNames geographical database covers all countries and contains over eleven million placenames
8	 photon				Search as you type with OpenStreetMap / Komoot
9	 DaRWiN 				Webservice of the DaRWiN CMS of RBINS
10	 DaRWiN 				Webservice of the DaRWiN CMS of RMCA
11					

The google sheet is composed of several tabs.
The first one is the menu with links to the different actions.

First of all, the user should:

- make a copy of the GisTemplate in a valid google drive and work with the copy as the original is only available as viewer, not editor.
- provide the authorization to use the macro/script available from this page
- share the new working copy with view access to "Anyone with the link"

A. Data entry



The user has first to encode the localities in the Data Source Tab.
An example of valid Data Source is available on the “source exemple” Tab.


	A	B	C	D	E
1	ID	Locality Name	Country (English)	Geoname feature Class	ISO 31662 (for Geonames)
2	1	Marais de Kishoma, Gita, alt.1650m. Terr. Shangugu	Rwanda	P	RW
3	2	Astrida	Rwanda		RW
4	3	Bigogo, lac Kivu	Rwanda		RW
5	4	Bigogo	Rwanda		RW
6	5	Buhanga, riv. Mucyabativa, Terr. d'Astrida	Rwanda		RW
7	6	Entre Rwaza et Kigali	Rwanda		RW
8	7	forêt du Bigogwe	Rwanda		RW
9	8	Gisagasa	Rwanda		RW
10	9	Gitarama, Terr. Nyanza, 3 km. N.E. de Kabgaye, sur l	Rwanda		RW
11	10	Haute Ngoma, Rushashi, alt.1900 m, Terr. de Biumba	Rwanda		RW
12	11	Hindiro, alt.1800 m, Terr. de Kisenyi	Rwanda		RW
13	12	Kisenyi (Lac Kivu)	Rwanda		RW
14	13	Kissenyi	Rwanda		RW
15	14	Kumumini, alt. 2000 m, Terr. d'Astrida	Rwanda		RW
16	15	Lac Karago, Nya Kibryu, N.W.	Rwanda		RW
17	16	lac Kivu	Rwanda		RW
18	17	Lac Nasho, alt.1250m, Terr. de Kibungu	Rwanda		RW
19	18	Lac Sake, alt.1350 m, Terr. de Kibungu	Rwanda		RW
20	19	Lac Tshohoha, alt.1350 m, Terr. de Kigali	Rwanda		RW
21	20	Lac Tshohoha, alt.1400 m, Terr. de Kigali	Rwanda		RW
22	21	Marais de Kishoma, Gita, alt.1650m. Terr. Shangugu	Rwanda		RW
23	22	Marais de la Rusumu, alt.2100 m, Terr. de Ruhengeri	Rwanda		RW
24	23	Mongombga	Rwanda		RW
25	24	Mugina, alt.1450 m, Terr. de Nyanza	Rwanda		RW
26	25	Mugusa, riv. Mucyabativa, Terr. d'Astrida	Rwanda		RW
27	26	Muyaga Gakoma, marais de Nyamageni, alt.1350 m.	Rwanda		RW
28	27	Myove, marais de la Mayumba, alt. 2280 m, Terr. de E	Rwanda		RW
29	28	Ngarama, près de Gatsibu, alt.1350 m., Terr. Biumba	Rwanda		RW
30	29	Ngarama, vallée de la Kalonger, alt.1350 m.	Rwanda		RW
31	30	Ngerenke, Kagera	Rwanda		RW

- The Column A is an ID allowing to retrieve the Locality in the results Tabs.
- The Locality Name has to be encoded in column B.
- Column C is the International Name of the country. The complete list of Countries is available using the link on the top of the column (goto Country Names Tab).
- The column D is a code describing the category of geographic items. This is used by Geonames and improves the quality of the returned data.


GNS Feature Designation Cross Reference	
Class Code	Class Name
Not defined	Not defined
A	Administrative Boundary Features
H	Hydrographic Features
L	Area Features
P	Populated Place Features
R	Road / Railroad Features
S	Spot Features
T	Hypsographic Features
U	Undersea Features
V	Vegetation Features


- The column E is the ISO Code 31662 of the country. The complete list of ISO codes for the countries is available using the link on the top of the column (goto ISO Country Tab).

B. Search:

When the Source Tab is completed, the user can launch one of the API  to populate the corresponding results Tab.

The Google system will block the first run of the script for security reasons. You have to specify that you accept the risk and it will then execute the script. After this, the scripts will be executed without any security alerts.

The user can go directly to one of the results Tab using the Results shortcut 

The user has to execute the Erase functions  to clean the values in the “data Source” and/or the results Tabs. Otherwise, the new data will be added after the last already encoded value if you want to generate a large results document.

C. View results on map

Go to the source TAB.

A1 ▾ fxc ID												
	A	B	C	D	E	F	G	H	I	J	K	L
1	ID	Locality Name	Country (English)	Geoname feature Class	ISO 31662 (for Geonames)	Map all sources	Map Darwin RMCA map_darwin	Map ESRI Map Photon	Map OpenStreetM	Map GeoNames		
2		1 Grotte de Spy	Belgium			link to viewer	dw_rbins=% esri=%237766CC+esri	osm=%23DD55C	geonames=%23			
3		2 Kinkole				link to viewer	dw_rbins=% esri=%237766CC+esri	osm=%23DD55C	geonames=%23			
4												

The script populates the source TAB with the information collected by the different web services.