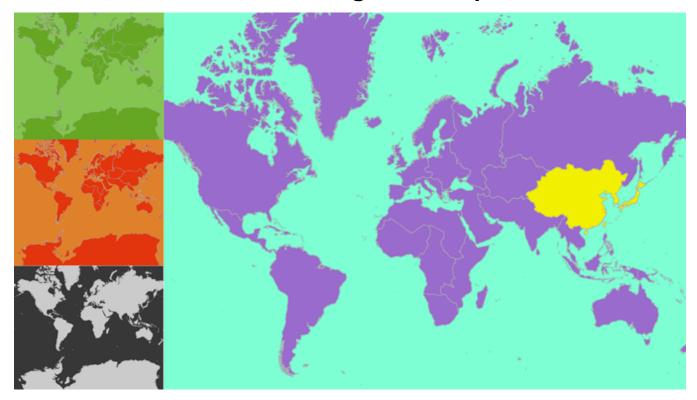
Create a Custom Offline Background Map



Ever wanted to created your very own custom Map Background without a Tile Service?

Ever need offline mapping functionality?

Ever needed to publish your Geo Spatial data but you didn't want to worry about map background copyrights?

Let's make our own..

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Intro

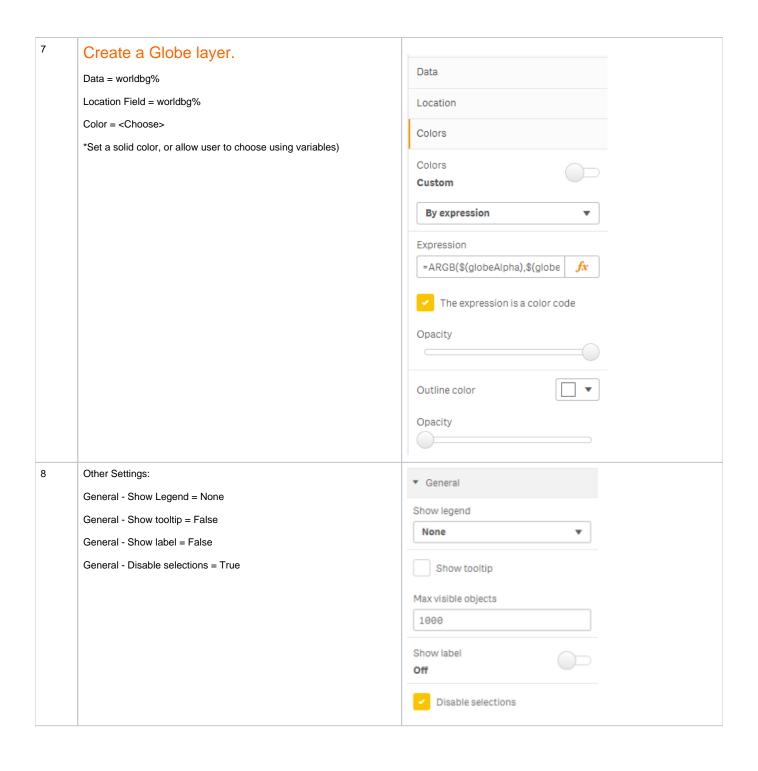
Firstly, what exactly is this?

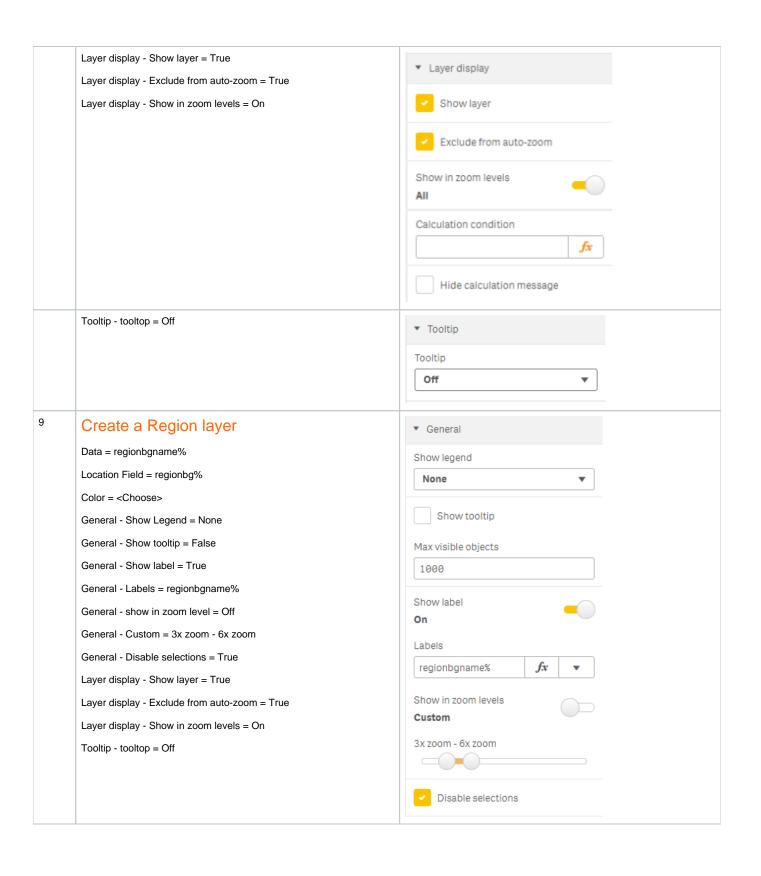
What we are looking at is a Qlik Sense Basic Map with the base map is removed. We add our own Globe and Countries layers.

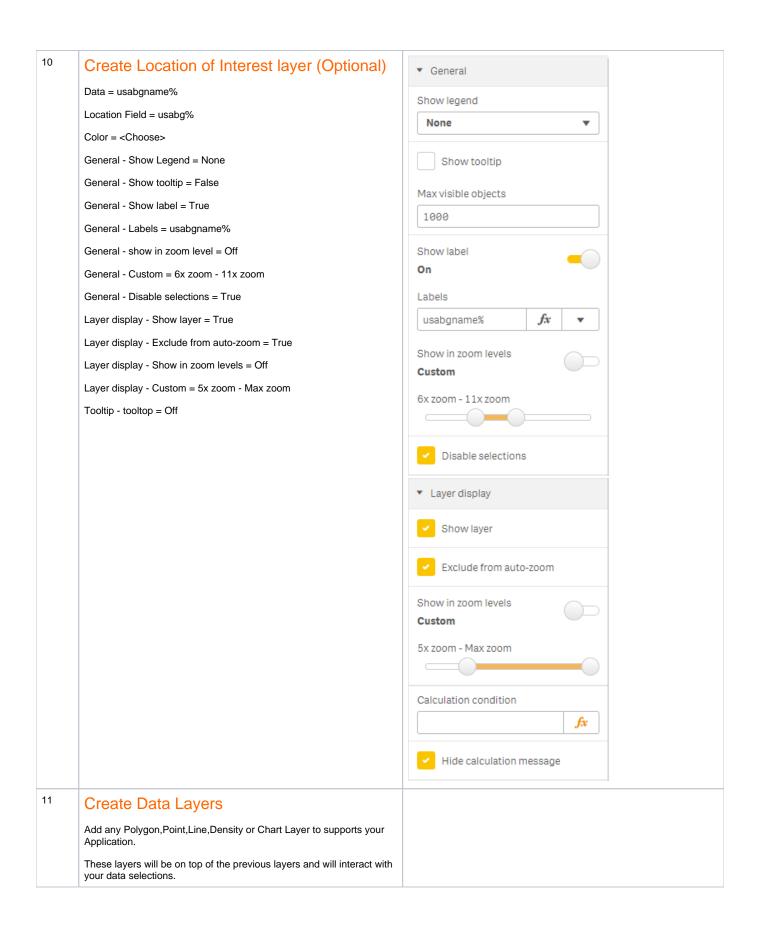
These layers are not select-able, so they now form our own colorful background map. Layers of details can be added and controlled with Zoom Level visibility.

Instructions

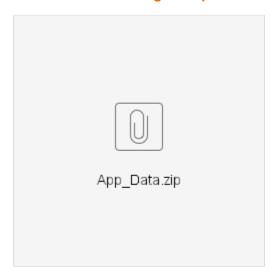
Step	Instructions	Images		
1	Create Globe Layer in the Data Load Editor. This is our first layer and will replace the Water on our Globe. *This will be a non-selectable layer	LET HideSuffix = '%'; WorldBackground: Load '[[-180,90],[180,90],[-180,-90],[-180,90]]' as worldbg% AutoGenerate(1);		
2	Create Country/Region Layer. #The file is included in the attachments, alternatively you can create your own. *This will be a non-selectable layer	WorldRegionsBackground: LOAD REGION as regionbgname%, coordinates as regionbg% FROM [lib://DataFiles/combined_0_region.json.txt] (txt, codepage is 28591, embedded labels, delimiter is '\t', msq);		
3	Create Location of Interest Layer. If you plan to zoom into a particular area of the world then can create multiple layers to support your use case. *This will be a non-selectable layer	USA: LOAD NAME as usabgname%, coordinates as usabg% FROM [lib://DataFiles/combined_0_tl_2017_us_state.json.txt] (txt, codepage is 28591, embedded labels, delimiter is '\t', msq);		
4	Load any Geo Spatial data (Polygons, Points) required for your application. *These will be Selectable layers	//Selectable Layers Countries: LOAD CNTRY_NAME as Country, coordinates as CountryCoordinates FROM [lib://DataFiles/combined_0_WorldCountryPolygon.json.txt] (txt, codepage is 28591, embedded labels, delimiter is '\t', msq); Regions: LOAD REGION as Region, coordinates as RegionCoordinates FROM [lib://DataFiles/combined_0_region.json.txt] (txt, codepage is 28591, embedded labels, delimiter is '\t', msq);		
5	Load your data into your Application.			
6	Create a Standard Map and remove the Base map (Select the map and change to white)	Layers Map settings Base map Projection Mercator Map language Auto Units of measurement Metric Selection method Lasso Auto-zoom		



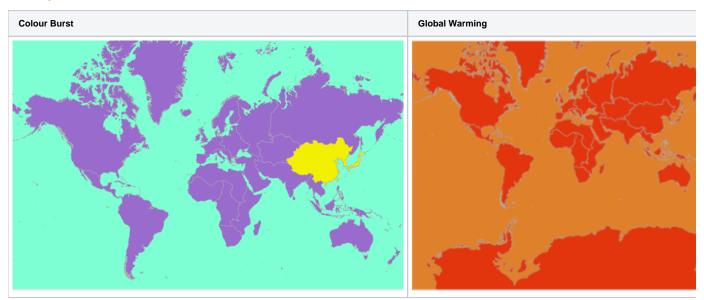




Attachments - working example and data files



Gallery



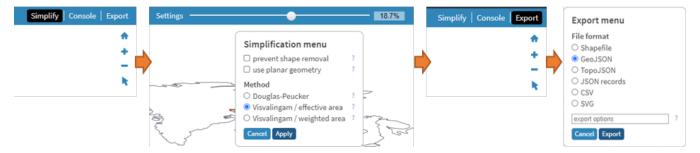
Extras

How to make your Globe/Region/Country Data File

I have provided some text-based Geo Spatial datasets for World Regions, Countries, USA States and Australian States, but how do you create these files?

There are numerous ways to create these data files, however I chose a method that did not require Commercial Geo-Spatial software or Qlik Geo Analytics.

- 1) Find (Google) Geo Spatial Datasets for every country or region and other regions of interest . Most likely you will find ESRI Shape files or GeoJSON files.
- 2) Use a tool to Simply the shapes (reduce complexity, therefore reduce size). Try MapShaper which is free, online and handles many file types.

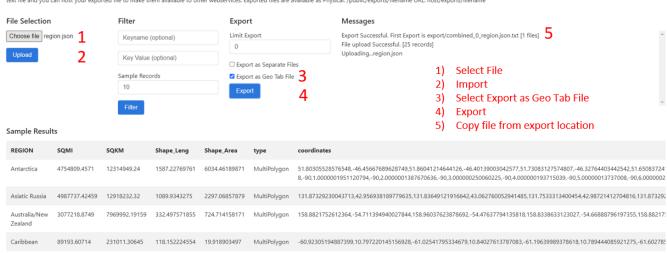


- 3) Convert the simplified Geo Spatial file to a Geo Tab format. This is not a standard Geo File but it is easily imported into Qlik.
- a) I built a Javascript Application that converts GeoJSON files to GEOTAB. Github GEOTAB Build the app from source or just download dist/geotab.exe
- b) Run GeoTab.exe or node index.js (from source)
- c) Follow the screenshot #GeoTab only handles Polygons and Multi-polygon formats, it will not import line-based geometries.

GeoJSON Filter Splitter Tool

Finish.

Use this tool to help troubleshoot your GeoJSON files. You can export small subsets of data when working with large files to understand the attributes. You can export subsets of data based on certain filters. You can export GeoJSON as a flattened Tab text file and you can host your exported file to make them available to other webservices. Exported files are available as Physical: /public/exports/filename URL: host/exports/filename



d) The export file will GeoJSON encoded data in a Tab Delimited Text file which can easily be imported into any Qlik Application.