POP/AS Visualization

User Guide



What is the PoP/AS Visualizer?

The POP/AS visualization system is a visual, easy-to-use interface to the NetDimes database, especially to the PoP-AS geographic information. It enables to query the DB and view the results using Google earth plugin with extensions.

How can I use it?

Very simple! Register to the website. After the administrator will accept your request you are ready to login and use the system.

Getting started

After login you will reach your personalized page (an image on the next page). it divides to two parts –

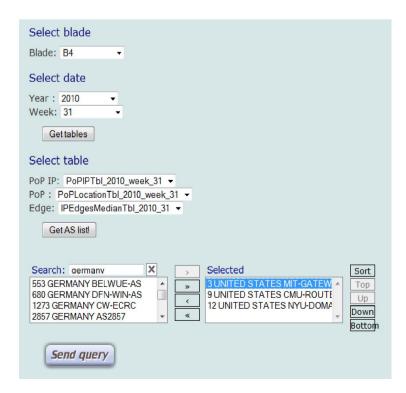
- Make a new query
- My queries

Popuas Visualizer



Generating a new query

Use the dropdown menus to select parameters to the query. After each selection the next menu will be updated accordingly. The options available are corresponding to the options that exist in the DIMES database. Now click the 'send query' button and your query will be sent to the server.



My queries

QID	Year	Week	Tables	AS Count	Status	Delete
bbaf	2010	42	IPEdgesMedianTbl_2010_42 PoPLocationTbl_2010_week_42 PoPIPTbl_2010_week_42	4	Complete	X
5263	2009	31	IPEdgesMedianTbl_2009_31 PoPLocationTbl_2009_week_31_2weeks_IPligence PopIPTbl_2009_week_31_2weeks	20	running	X

This part shows all your queries, information about them and manage options. Special attributes are:

- QID 4 last notes of the query ID. This way you can distinct between similar queries.
- Status the current status of the query. Running means the server is still
 working on the query. Checking means that the system checks if your query
 has finished. Completed means that the query is finished click the
 'Completed' button and the visualization page with the query's data will
 open. Error means that there is a problem with the query. Please run it again.
- Delete by clicking the delete button you erase the query from your queries
 list. Be careful, there is no way to retrieve the query after deletion.

Visualization page

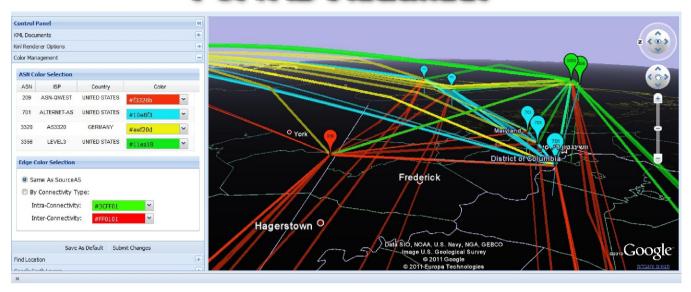
On this page you can view and manipulate the geographic results from the query.

On the right side of the page you can view the result in a Google earth plugin.

On the left side of the page you can manipulate the visualization of the results using the control panel, consistent with the following panels:

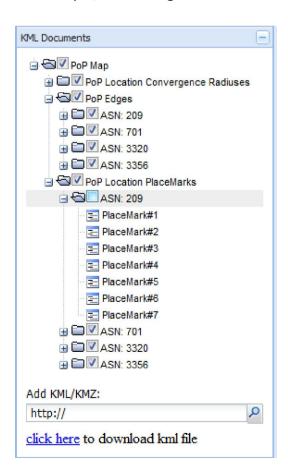
Add a picture

Populs Visualizer



KML documents

in this panel you can remove elements from the map according to their KML entity. For example, unchecking the 'ASN: 209' box will vanish its placemarks from the map.



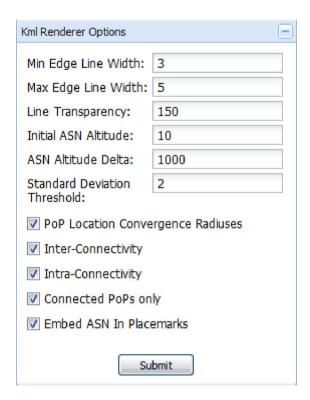
At this panel you can also load an existing KML\KMZ file, or save the current KML file.

KML renderer options

This panel allows to manage the way entities appear in the map. You can control the line transparency, ASN altitude etc. moreover, several PoP-AS relations checkboxes are available:

- Pop location convergence radiuses shows the convergence radius of the pop. Looks as a circle around the pop.
- Inter-connectivity shows the connectivity between different ASs.
- Inter-connectivity shows the connectivity inside ASs.
- Connected pops only show only the pops that has a connection to another pop (not a standalone).
- Embed ASN in placemarks shows the AS number inside the PoP's placemark

Clicking the submit button will render the requested map.



Color management

at this panel you can choose your own set of AS colors.

pay attention that the default view makes the edge color to be as the source AS, so it might affect the edges color too.

Add picture

Find location

Enter any location (e.g. Tel Aviv) and the Google earth plugin will focus the map on that location.



Google earth layers

This panel enables more map layers such as roads, borders etc.



Options

This panel enables more map options.



Visualization examples

