

The logo for FOSS4G 2006, featuring a stylized red and white graphic that resembles a ribbon or a stylized letter 'G'.

# FOSS4G 2006 - Free And Open Source Software

Contribution ID : 74

## Mapping election results and Cartoweb

Thursday 14 Sep 2006 at 11:00 (00h30')

On Sunday, March 12th, 2006, took place the communal elections in the Canton de Vaud (Switzerland). We have adapted cartoweb 3.2 to show the results online:

<http://cartoweb.elections-communales.ch/index.php>

It is traditional thematic cartography with following problematic:

- a) feeding results to be mapped as they are officially published,
- b) automatic adaptation of the class intervals on the basis of the results,
- c) generation of multiple similar layers,
- d) high traffic during the day of the elections,
- e) short time to build the application

a) Results are imported in Open Office Calc and the sheets macro generates the insert commands for the database, copy-past is possible. The risk of typo is reduced. After database import, generation of the publications tables and a new mapfile.

b) The mapfile is an .map.php compiled with makemaps.php. It is possible to script the mapfile in php. Requests are made to the database to get the extent of results for a layer and to compute for each layer the class intervals.

c) The capabilities of cartoweb's autolayers allow to generate multiple layers with similar thematic (for example: political party). For 12 parties this is a great saving time functionality.

d) High traffic problematic should be solved by reducing the functionalities of cartoweb: there is no pan nor zoom so that images can be cached by cartoweb. In second place, we use 2 computers, one for the database and one for cartoweb. As many concurrent requests arrive, the load of cartoweb server increases and it could be impossible to work with ease in the database. As feeding the results during the operation is important... this was mandatory. The structure of the relational database implies to use views to access data. To win some computing time, the views are materialized (snapshots) so that cartoweb does only basic select operations.

e) Wishes were prioritized and an importance/time consume balance was taking in

regard so that this project would feed in the 2.5 weeks that i had before me...

Why cartoweb?

We have chosen cartoweb, because of the accessibility of this solution: there is no need for a plugin on the client side and it is compatible with many types of browsers. As it is an open source software, it is possible to adjust the functionalities to our needs and there is no license costs.

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