



FOSS4G Central and Eastern Europe 2013

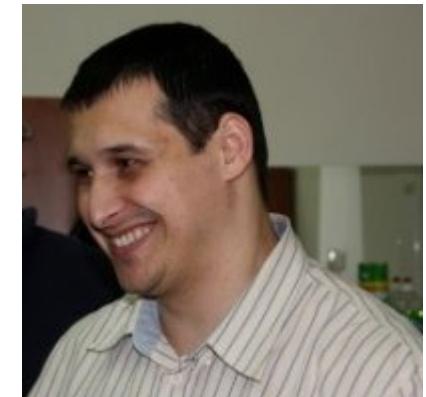
17th - 19th June, National Library of Romania, Bucharest, Romania

FOSS4G-CEE
Bucharest 2013



2013. június 16-20.

Vasile Crăciunescu



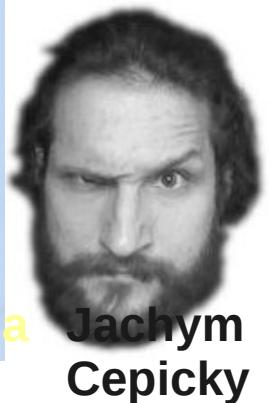
Előzmények



Aleš Čepek



Martin Landa



Jachym
Cepicky

- Geoinformatics FCE CTU 2006-tól
- FOSS4G-CEE 2012 Prága
- FOSS4G globális és regionális konferenciák

FOSS4G-CEE & Geoinformatics
Prague 2012

Free and Open Source Software for Geospatial in Central and East Europe, 21.5.-23.5.2012, Prague, Czech Republic

[Home](#) [Photos](#) [Program](#) [Registration](#) [Sponsors & Exhibitors](#) [Getting Around & Venue](#) [Contact](#) [About](#) | © 2011-2012 FOSS4G-CEE | [Twitter](#) | [RSS feed](#)

Photos
May 24th, 2012 No comments

First set of photos is available

Links for your presentations and presentation in the file format
May 22nd, 2012 No comments

We would like to kindly ask the presenters to send the links to theirs presentations to foss4g-cee@foss4g-cee.org. The links will be collected on the conference page. If you are looking for a place to bear your presentation, you can try <http://www.slideshare.net>. You can send the files directly as well.

On the other hand, if you are up for a particular presentation, we hope to provide you a link soon, especially if you kindly remind the presenter to send it to us.

Second informal Social event
May 21st, 2012 No comments

OSGeo
Your Open Source Compass

gis
portal
.cz

LIBERIX
free & open source

GeoInformatika

FOSS4G-CEE Bukarest



- Nyelv: angol
- Keynotes: 10
Jeff McKenna,
Markus Neteler,
Vincent Picavet, ...
- Prezentációk: 9 + 15 + 18
- Workshopok: 12
- Résztvevők: kb. 200 -
4 magyar
(ebből 2 erdélyi)
- Code Sprint: kb. 20 fő
- Érintett projektek: 3
- GeoData Hackathon: 15 fő
- Érintett projektek : 4
- Open Data side-event: kb. 60 fő
- 17 ország
- 5 nap
- 5 éjszaka (bulival)

Jövő

FOSS4G Europe 2014 Bremen, Jacobs University
2014. július 15-17. <http://foss4g-e.org/>

Foszfor Gézu magyar konferenciák, foszfor és komló



Peter Baumann



Workshops

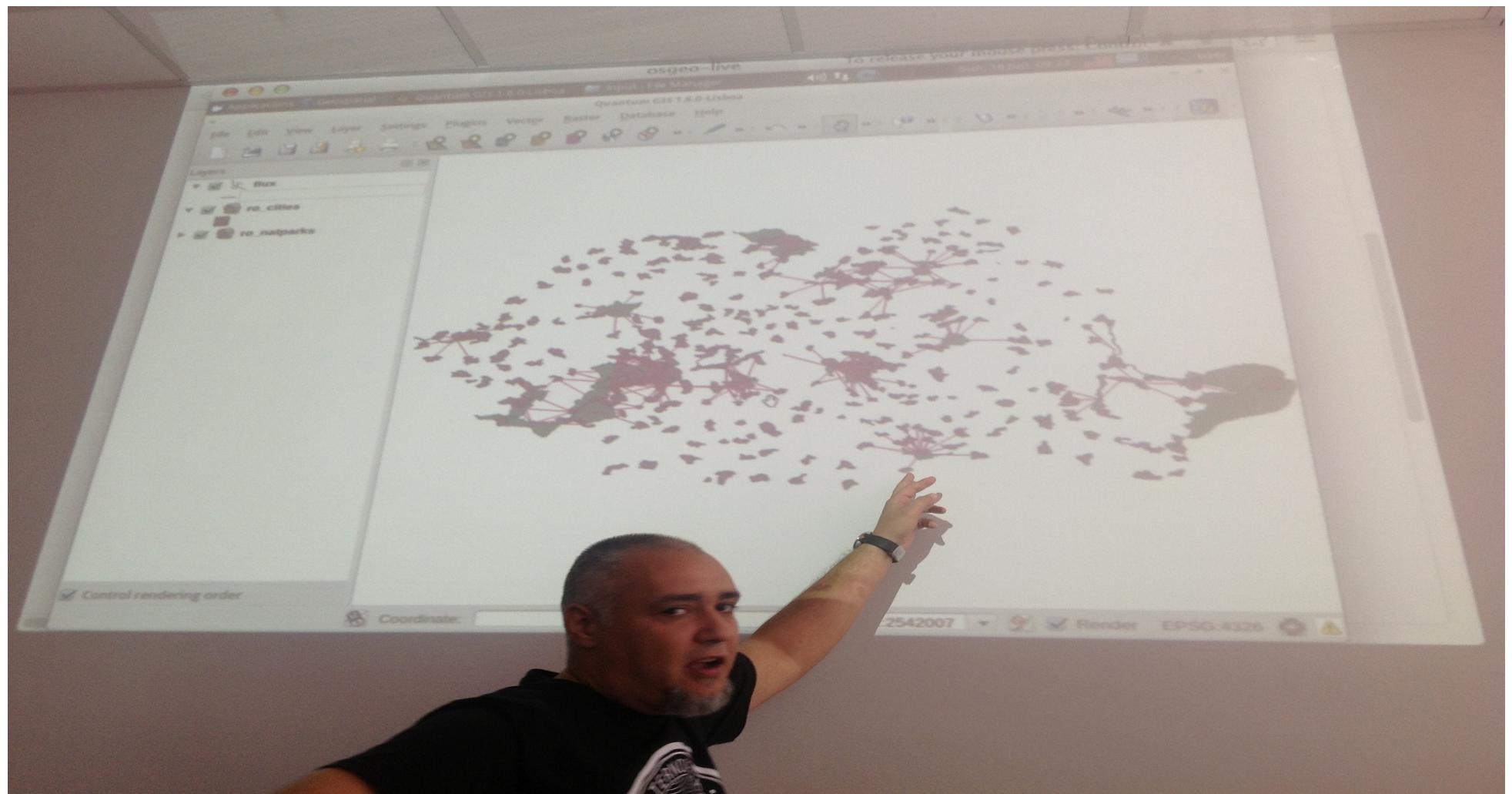


Imre: 10EUR/Workshop ár ! :

- Processing GIS data using Python
- R for spatial analysis: MODIS data manipulation and climate data interpolation
- Getting started with HSLayers

FOSS4G-CEE-2013

Python-GIS workshop



<https://github.com/mgax/foss4gcee2013-pygis>

FOSS4G-CEE-2013

Python-GIS workshop

Step A1 - read city polygons

Load city shapefile; print names. Use separate function to keep the code readable later on.

```
import ogr

def calculate_hikers(cities_layer):
    for i in range(cities_layer.GetFeatureCount()):
        city = cities_layer.GetFeature(i)
        city_geom = city.GetGeometryRef()
        city_centroid = city_geom.Centroid()
        print city.GetField('uat_name_n'), city_centroid

def main():
    cities = ogr.Open('input/ro_cities.shp')
    cities_layer = cities.GetLayer(0)
    calculate_hikers(cities_layer)
    cities.Destroy()
```

R for spatial analysis: MODIS data manipulation and climate data interpolation

The screenshot shows the RStudio interface with several windows open:

- File Explorer:** Shows files like t_01.R, 01modisSnow.R, 02ModisTemperature.R, and 03rSpatial.r.
- Code Editor:** Displays the content of t_01.R, which includes comments about the purpose of the script, authors (Alexandru Dumitrescu, Mihai Terente, Codrina-Maria Ilie), date (June 2013), location (Bucharest, FOSS4G-CEE 2013 conference), and setting the working directory to ~/rFoss4gCee. It also loads packages RCurl, raster, rgdal, and XML.
- Console:** Shows the command history, including the execution of the R script.
- Workspace:** Displays the R environment, showing variables like srm, ro, and srml.
- Plots:** Shows a plot of MODIS data with a boundary.
- Help:** Shows help documentation for various functions.

```
# The purpose of this script is to show the capabilities of R to download,
# manipulate MODIS Land Surface Temperature data.
# Authors:
#   Alexandru Dumitrescu: alexandru.dumitrescu[at]gmail.com
#   Mihai Terente
#   Codrina-Maria Ilie
# Date:
#   June 2013
# Location:
#   Bucharest, FOSS4G-CEE 2013 conference (http://2013.foss4g-cee.org/)
#
# setwd("~/rFoss4gCee")
#
# Loading needed packages
#
library(RCurl)
library(raster)
library(rgdal)
library(XML)
#
# select images for Romania
# ff<-files[grep(files,pattern=paste(i,"*.hdf",sep="."))]
# ff<-ff[nchar(ff)==83]
# ff<-unlist(strsplit(ff," "))
# ff<-ff[length(ff)]
#
```

```
+ 
+ 
+ 
+ # select images for Romania
+ ff<-files[grep(files,pattern=paste(i,"*.hdf",sep="."))]
+ ff<-ff[nchar(ff)==83]
+ ff<-unlist(strsplit(ff," "))
+ ff<-ff[length(ff)]
+ 
```

```
srm[srm==200]<-100
#visualisation of results, with added boundary
plot(srm,xlim=c(20,30),ylim=c(43.5,48.3),breaks=c(0,25,37,50,100),col=heat.colors(5))
axis.args=list(at=c(10,30,42,75), labels=c('no snow','waters','cloud'))
download.file('http://earth.unibuc.ro/file_download/1251','fro.zip')
unzip('fro.zip')
ro<-readOGR(dsn=getwd(), layer="frontiera_ro")
plot(ro,add=T)
# write MODIS data to GEOTIFF format, with the appropriate day
srml<-crop(srm,extent(20,30,43.5,48.3))
writeRaster(srml, paste("SC_",gsub("\\.", "_",data), ".tif", sep=""), overwrite=TRUE)
```

Getting started with HSLayers

(HSLayers builds on top of two known JavaScript frameworks, namely OpenLayers & ExtJS.)

Welcome to HSLayers!

HSLayers is yet another JavaScript Mapping framework. You can use it for building rich mapping portals, as well as use its parts for improving your simple OpenLayers-based map.

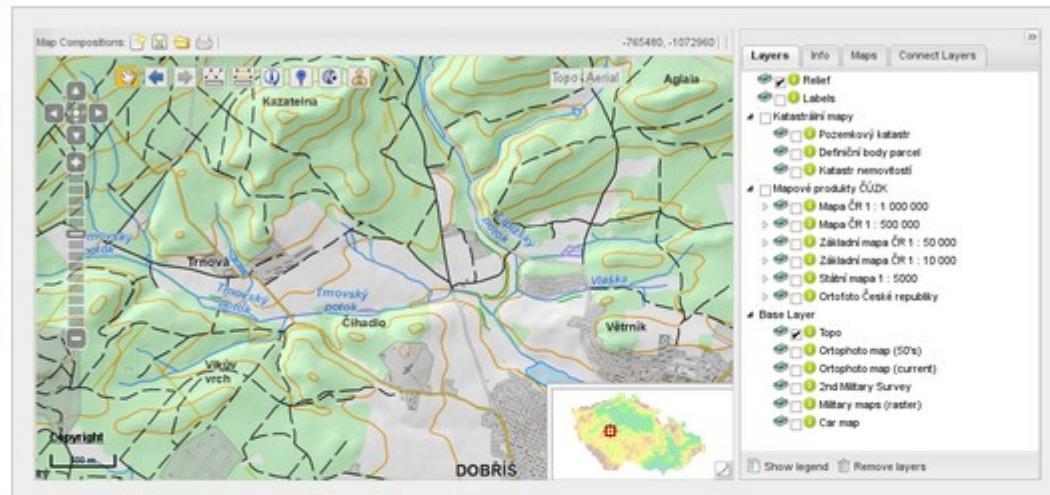
HSLayers builds on top of two known JavaScript frameworks, namely [OpenLayers](#) & [ExtJS](#).

HSLayers is Open Source software, released under conditions of GNU/GPL license.



[HSLayers](#)

- ⓘ [Mostly written in JavaScript](#)
- ⓘ [Extremely well-commented source code](#)
- ⓘ [Established codebase](#)
- ⓘ [Small development team](#)
- ⓘ [Decreasing year-over-year development activity](#)
- ⓘ [3 active contributors](#)



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Presentations

Time	Aula	Mircea Eliade	Mircea Vulcănescu
09:00 - 09:30	Adding Array Analytics to Databases <u>Peter Baumann</u> , Jacobs University	Policy and legal issues around Open Data <u>Bogdan Manolea</u> , ApTI	Harmonizing distribution and range data open source tool for species and habitats of the Habitats and Birds Directives <u>Daniel Urda</u> , TeamNet Solutions International <u>Iurie Maxim</u> , TeamNet Solutions International <u>Ciprian Iacobescu</u> , TeamNet Solutions International
09:30 - 10:00	Towards 3D modeling: new trend, endless FOSS4G opportunities! <u>Cristian Balint</u> , Independent developer	geoidea.ro: Open Geodata Initiative for Romania <u>Radu Gogu</u> , Groundwater Engineering Research Center - Technical University of Civil Engineering <u>Vasile Crăciunescu</u> , Groundwater Engineering Research Center - Technical University of Civil Engineering <u>Ionut Iosifescu</u> , Institute of Cartography and Geoinformation - ETH Zurich <u>Codrina Maria Ilie</u> , Groundwater Engineering Research Center - Technical University of Civil Engineering <u>Dragos Gaitanaru</u> , Groundwater Engineering Research Center - Technical University of Civil Engineering <u>Lorenz Hurni</u> , Institute of Cartography and Geoinformation - ETH Zurich	Forest management web application based on open-source solutions <u>Mihai Daniel Nită</u> , Forest Design <u>Bogdan Candrea</u> , Forest Design <u>Stefan Simon</u> , Forest Design
10:00 - 10:30	High Performance Data Visualizations in JavaScript <u>Vladimir Agafonkin</u> , Universal Mind	Adding Value to FOSS4G through FOSS4G.js Overview on Open Source Geodata Initiatives Open Street Map Data in Particular <u>Nadia Panchaud</u> , Institute of Cartography and Geoinformation – ETH Zurich <u>Ionut Iosifescu-Enescu</u> , Institute of Cartography and Geoinformation – ETH Zurich <u>Cristina Iosifescu-Enescu</u> , Institute of Cartography and Geoinformation – ETH Zurich <u>Lorenz Hurni</u> , Institute of Cartography and Geoinformation – ETH Zurich	

Business and open source

How to get rich and save the planet with open source

(Just van den Broecke – OSGEO.nl 2012 keynote)

7



Social Events ..

