

FOSS4G 2010 *Barcelona*

New functionalities in gvSIG Mobile 1.0

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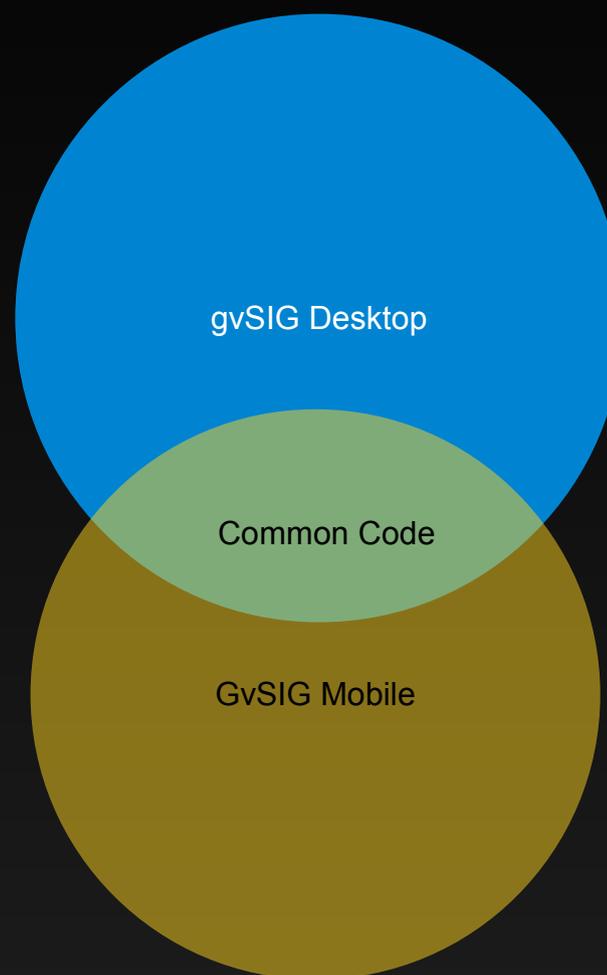


Introduction

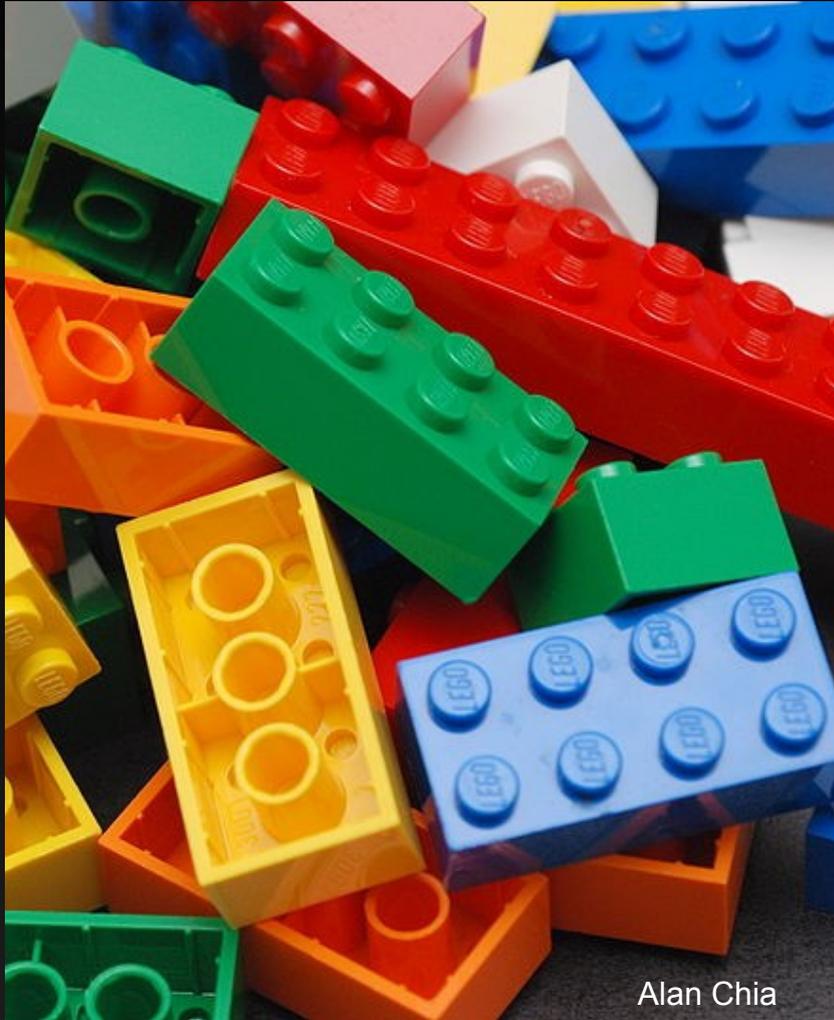
- gvSIG Mobile is a GIS for mobile devices
- Last version is 0.3
- It's developed in Java (J2ME CDC PP)
- Can handle WMS, GML, KML, GPX, SHP, ECW
- Editing of vector geometries and attributes
- Connects with any GPS to allow GPS aided editing
- Custom forms support

gvSIG desktop core

- gvSIG 2.0 and gvSIG Mobile 1.0 share the main mapping libraries and APIs
- Now it's easier to port a gvSIG desktop plugin to gvSIG mobile
- gvSIG Mobile evolution is assured



OSGI Based extensibility

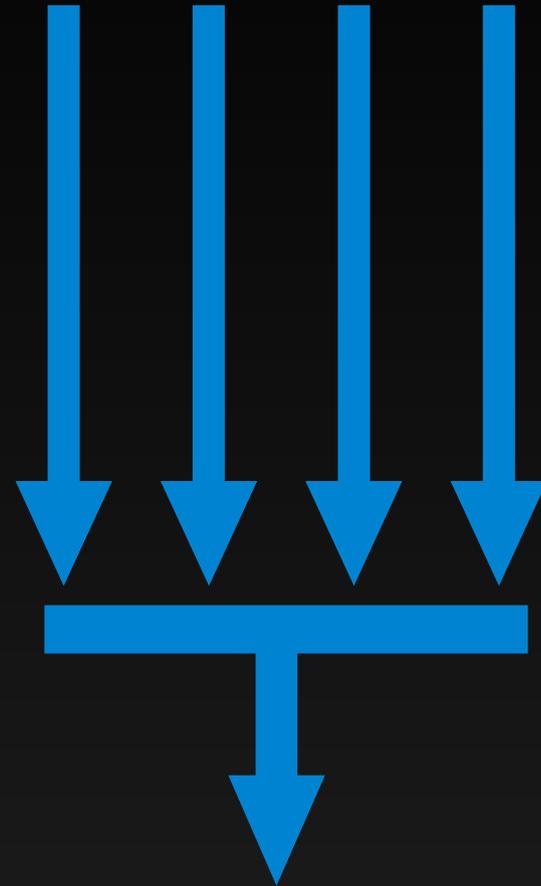


Alan Chia

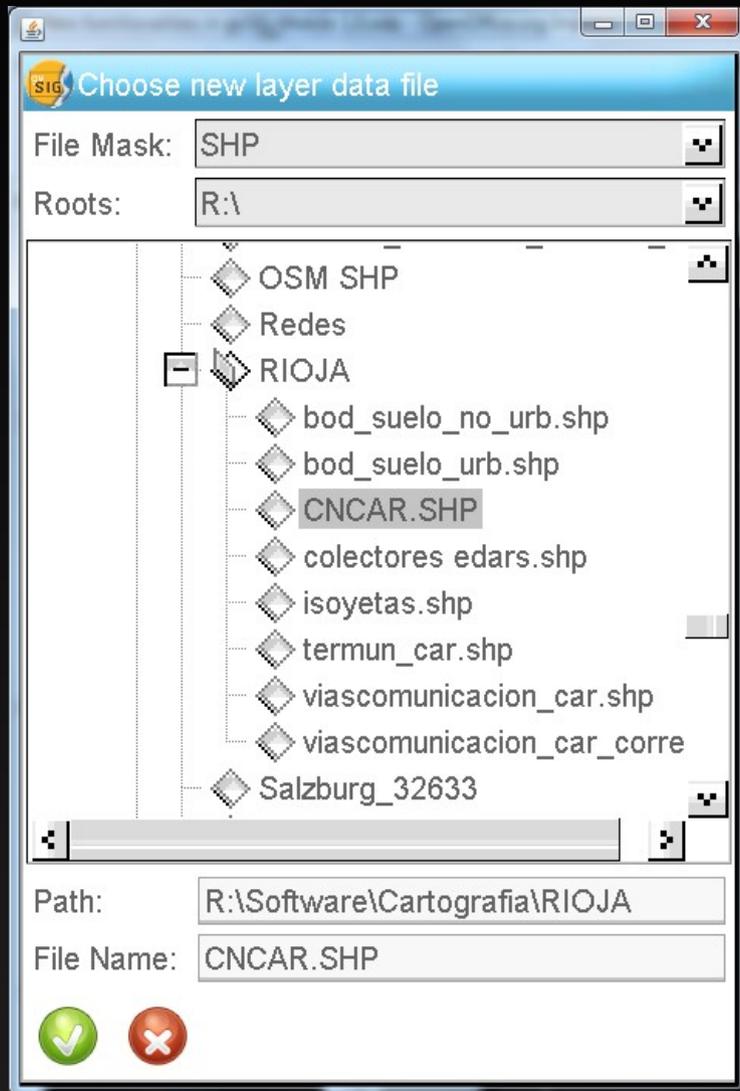
- Now it's easy to add functionality to gvSIG Mobile
- SRS are also pluggable
- In the future will be a repository browsable from gvSIG Mobile
- Tested on Knopplerfish

Everything is multithread

- Every tool is executed on a thread distinct to the GUI thread
- Slow actions does not block the application
- Thread pool to avoid thread creation time and to limit number of threads

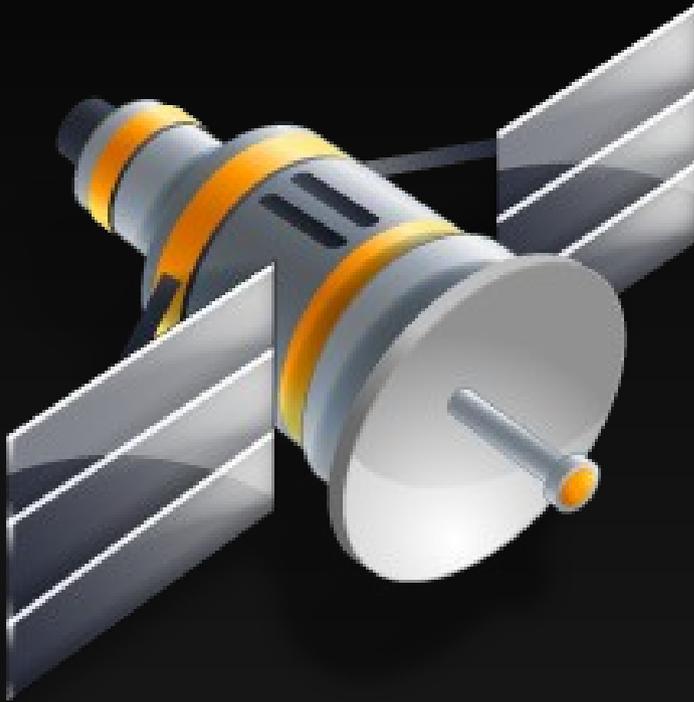


New UI Framework



- GUI based on LWUIT
- Lightweight
- Final aspect does not depend on the VM
- Color picker
- Tree file browser
- Tabbed pane
- ...

libLocation



- New location library
- Allows new devices to be added as plugins
- Personal database with routes, tracklogs and POIS
- Vertex averaging and filtering
- Usable in other projects

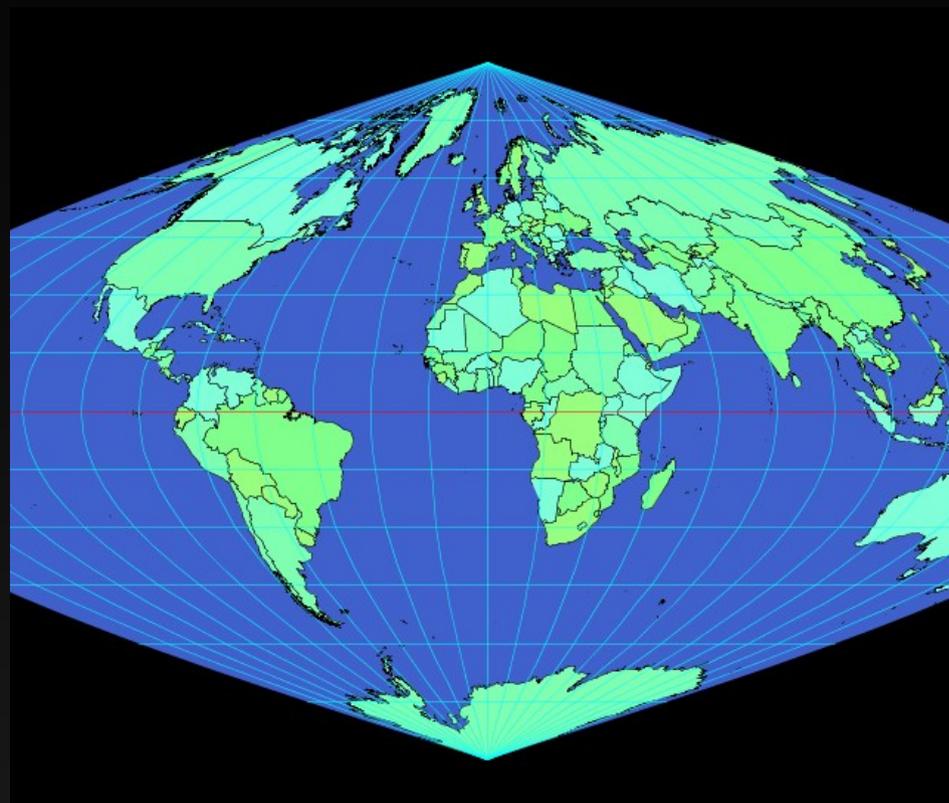
Styles

- Range
- Unique value
- Labeling
 - Several fonts
 - Rotation
 - Performance
 - Hershey fonts



New SRS support

- New SRS system
- Pure Java
- Extendable
- Based on Java Map Projection Library (proj4 port)



WFS



- New support for OGC vector WFS services
- Soon (hopefully) WFS-T

Videos



Current issues

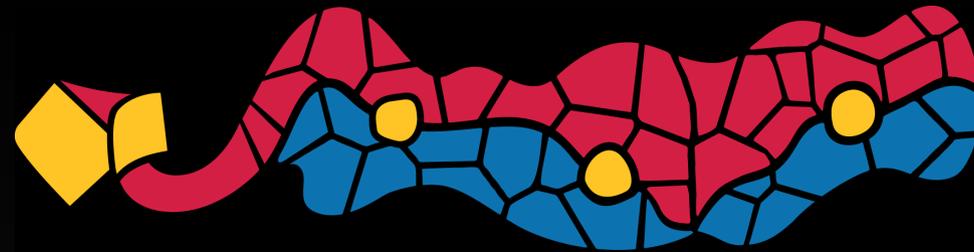
- This alpha version is slower than version 0.3
- Probably we are including some unnecessary bundles with the application
- The libLocation functionality is ready but not completely integrated on the application
- The usability of new editing tools is not very good
- We have to solve those issues before publishing the beta

Roadmap

- Improve performance
- Solve some bugs
- Improve editing tools usability
- Finish the libLocation integration
- Create installable packages
- Publish a beta version
- Publish the 1.0 (this year)
- WFS-T, Bundles repository

Conclusions

- The wait has been long but the big refactoring is almost done, gvSIG Mobile 1.0 is coming
- The new functionalities are the most demanded and gvSIG Mobile is becoming a good alternative to privative software
- This version has been done with the developers in mind. So please join us and hack gvSIG Mobile



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