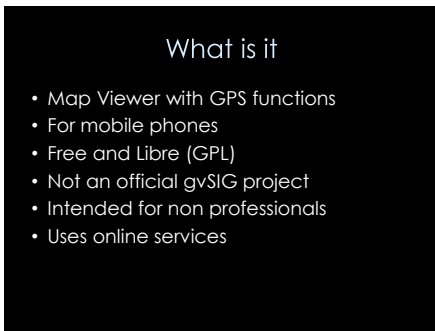




Hello, I'm Javi Carrasco.

Thank you for coming to gvSIG Mini,  
OpenStreetMaps for almost every phone



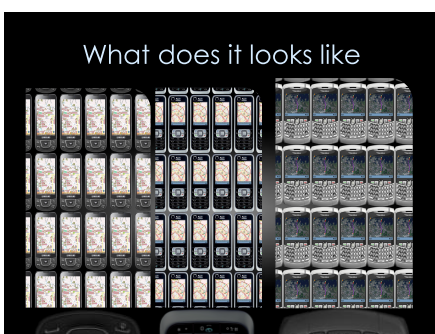
gvSIG Mini is a map viewer that runs on phones.  
Displays maps from the Internet and caches all the  
tiles on disk to save bandwidth.

It supports the GPS and online services like YOURS  
and Name finder to search for routes or addresses.

It is not an official gvSIG project yet because  
people on gvSIG comitee are very busy at this  
moment but we expect it to become as soon as  
possible.

It's free and libre with GPL license and it's intended  
for non professionals. With this I don't mean it will  
not be useful for professionals. I mean it is easy to  
use and focuses on services useful for non  
technical profiles and not in supporting every map  
format or editing.

Of course professionals can use gvSIG Mobile for  
PDAs and Smartphones.



The first phone at this picture is the Samsung  
Galaxy with Android OS, the second is my personal  
non smartphone Nokia and the third is a  
Blackberry.

### Who is doing it

- Spanish company
- 15 years GIS experience
- 70+ employees
- Member of Technical Management Team of gvSIG
- High focus on FOSS4G: Victoria, Cape Town, Sydney

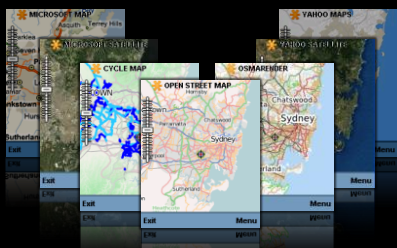


gvSIG mini started at the company I work for: "PRODEVELOP". This company has been working with GIS for 15 years and we are members of the Technical Management Team of gvSIG

### What are its features

Ok, what can gvSIG mini do?

### Map viewer



Is a map viewer with support for OpenStreetMap tiles, Yahoo and Bing maps and tiled Web Map Server Cache and non tiled standard Web Map Server.


### GPS Positioning



- See my location
- Search close POIs
- Use position for routes

It supports GPS using JSR179 so we can see our location on the maps and use this position to calculate routes or to search for Points of interest close to our position.

### Route finder (YOURS)



YOURS is a web service based on OpenStreetMap data that finds the best route between two points.

gvSIG mini using YOURS allows you to find the best routes and see them over the map.

You can choose routes for bikes, cars or pedestrian.

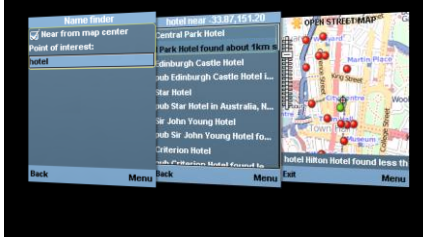
## Address search (Name Finder)



To search for addresses gvSIG Mini uses Name Finder, another OpenStreetMap service.

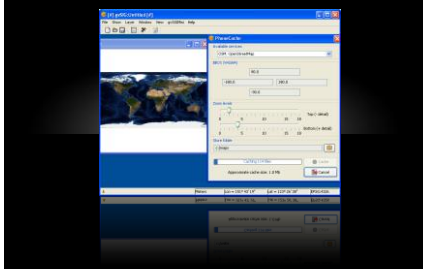
gvSIG mini queries the Name Finder and displays the text information and allows you to see it in the map.

## POI Search (Name Finder)



The same service, Name Finder, with a different configuration is used to look for Points of interest like hospitals, bus stops and any other entities stored on OpenStreetMap data.

## Tiles downloader



We did a gvSIG desktop extension to download and store the desired piece of the world in tiles so you can see the maps even when you are without connection.

## What are the Requirements

- Standard phones
  - Java CLDC 1.1 enabled phone
  - (Optional) GPS and JSR 179
  - (Optional) Network connectivity
  - (Optional) JSR 75: Filesystem access
- Android
  - (Optional) Network connectivity
  - (Optional) GPS

There are versions for standard phones and android.

The standard phones only require java CLDC 1.1. It is a very common profile and almost every phone built on last 5 years includes it.

JSR 179 is the java specification for GPS usage, so we need a phone with JSR 179 to use GPS.

To use disk cache we need a phone with JSR 75 and of course to access online services we need network connectivity.

All current android phones are mainly equal so there are not special requirements.

## How is it being done

- Tiles + vector routes + POIs
- LWUIT for enhanced user experience
- Multithread
- Persistent cache
- Based in OSM services
- Supported SRS: "EPSG:4<sup>srs</sup>" "EPSG:230<sup>srs</sup>"  
"EPSG:326<sup>srs</sup>" "EPSG:327<sup>srs</sup>" "EPSG:275<sup>srs</sup>"  
"EPSG:27700"

A tiled map is always shown even when accessing an standard WMS so the application is able to cache the images and store bandwidth.

The routes and POIs are received in vector format and are parsed and drawn over the maps.

The user interface is based in Lightweight user interface toolkit so the menus and forms are cooler and similar on every phone.

It uses several threads to get the tiles without hanging the user interface.

It stores every tile on disk, so every tile is only downloaded once. At this moment we don't check for tile modifications at the server.

It uses YOURS and Name finder OpenStreetMap services to look for routes, addresses and POIs.

gvSIG mini support the Coordinate reference systems listed here.

You can download gvSIG Mini from those 3 links

## Where to get it

- From PC
- From phone
- From android devices

## What's next

- Personal POIs storage
- Tracklogs and waypoints storage
- Disconnected address search
- Integration with social applications
- Unify Android and CLDC code

Collaborations are wellcome

gvSIG Mini is not closed. There are some improvements we think could be very useful.

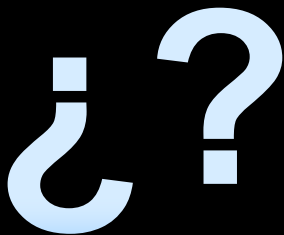
First, functions to store Personal points of interest, tracklogs and waypoints. With this add-on will be very easy to acquire information to use with OpenStreetMap or other applications, especially if we can take photos and voice as waypoints.

We can see maps without connection, so it will be great if we can find addresses without connection too with a database stored in the SD card.

Integreation with twitter, facebook and so on.

And the most important, we want to share part of the code from the standard version and the android version.

Video



Thank You

