



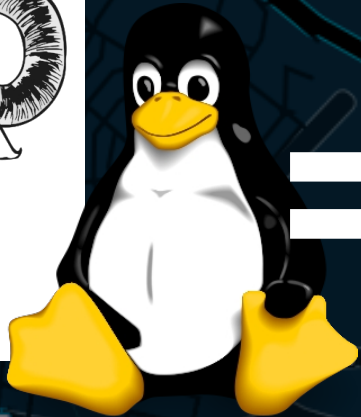
# OpenStreetMap

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César Medina <[ciesaremedina@gmail.com](mailto:ciesaremedina@gmail.com)>



# ¿Qué es OpenStreetMap?

CARACAS



```
static int
read_fw (struct
usb_dev_handle *dev, char
*filename, long off)
{
    int fd, len, req,
llen, res, ret = -1;
    unsigned char data[4],
rdata[1024], *ptr;
```



```
{{taxobox
|name = Pleurodema borellii
|status = LC
|status_system = IUCN3.1
|regnum = [[Animalia]]
|phylum = [[Chordata]]
|classis = [[Amphibia]]
}}
```



**Pleurodema borellii**  
From Wikipedia, the free encyclopedia

**Pleurodema borellii** is a species of frog in the Leptodactylidae family. It is found in Argentina and possibly Bolivia. Its natural habitats are subtropical or tropical dry forests, subtropical or tropical moist lowland forests, subtropical or tropical high-altitude grassland, freshwater marshes, intermittent freshwater marshes, rural gardens, urban areas, heavily degraded former forest, and ponds.

**Conservation status**  
Least Concern (IUCN 3.1)

**Scientific classification**  
Kingdom: Animalia  
Phylum: Chordata  
Class: Amphibia  
Order: Anura  
Family: Leptodactylidae  
Genus: *Pleurodema*  
Species: ***P. borellii***

**Binomial name**  
***Pleurodema borellii***  
(Peracca, 1895)

**References** [edit]

- Cortez, C., Reichle, S., De la Riva, I., Köhler, J. & Lavilla, E. 2004. *Pleurodema borellii*. 2006 IUCN Red List of Threatened Species. # Downloaded on 22 July 2007.

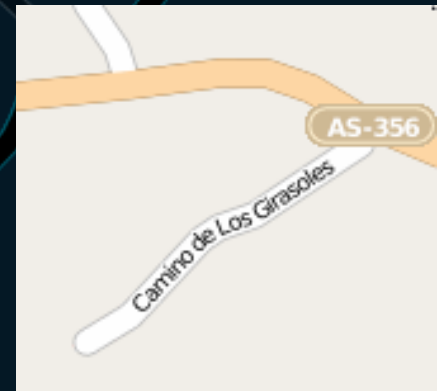
This Leptodactylidae article is a stub. You can help Wikipedia by expanding it.

Categories: IUCN Red List least concern species | Pleurodema | Leptodactylidae stubs

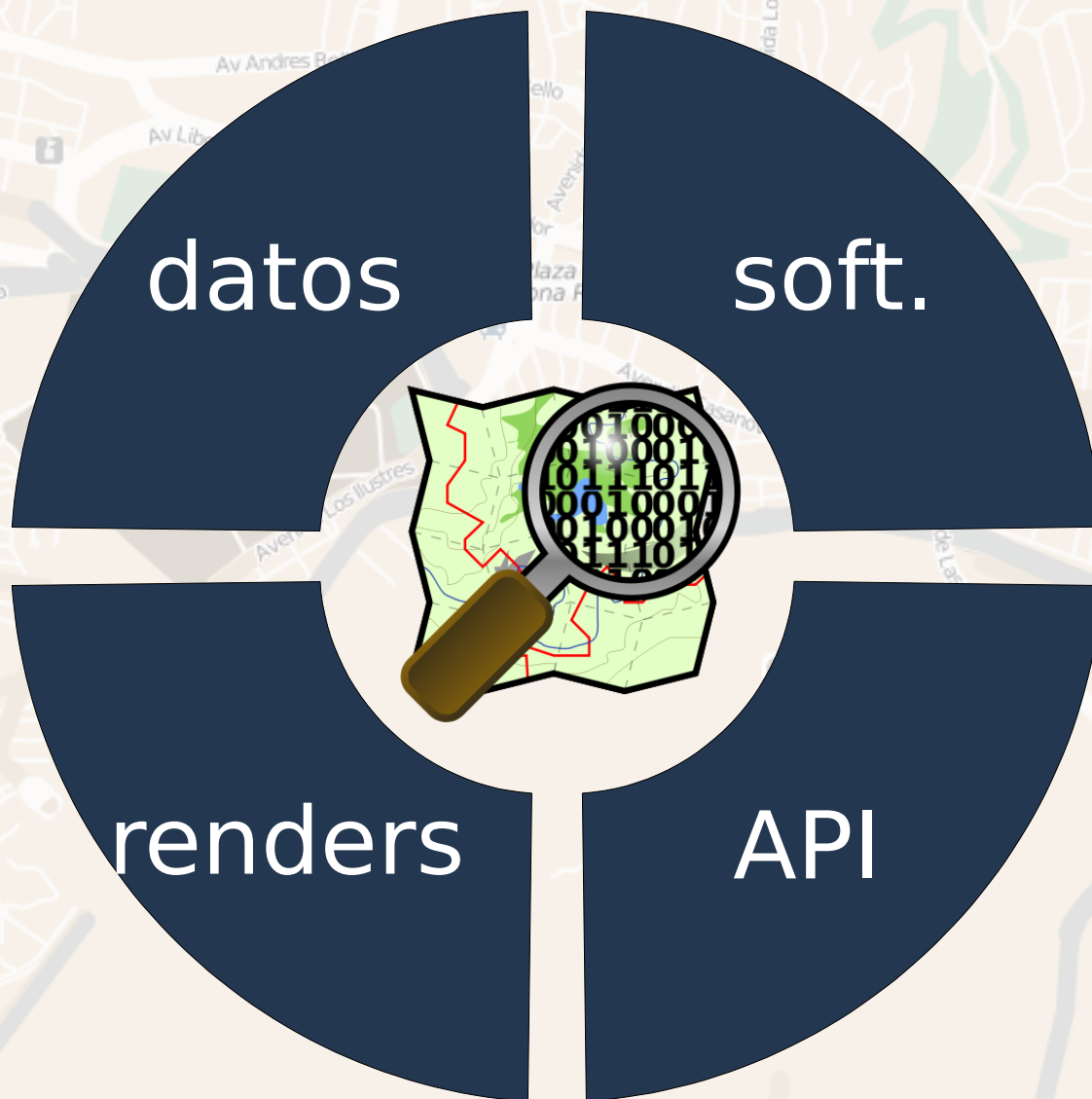
'''Pleurodema borellii''' is a species of [[frog]] in the [[Leptodactylidae]] family.



```
<node id="206358572"
lat="37.3905641" lon="-5.9882308"
timestamp="2009-02-20T17:16:48+00:00"/>
<way id="22744006" visible="true"
timestamp="2008-10-31T13:50:26+00:00">
    <nd ref="206358593"/>
    <nd ref="206358594"/>
    <nd ref="206358595"/>
    <nd ref="206358596"/>
    <tag k="highway"
v="residential"/>
```



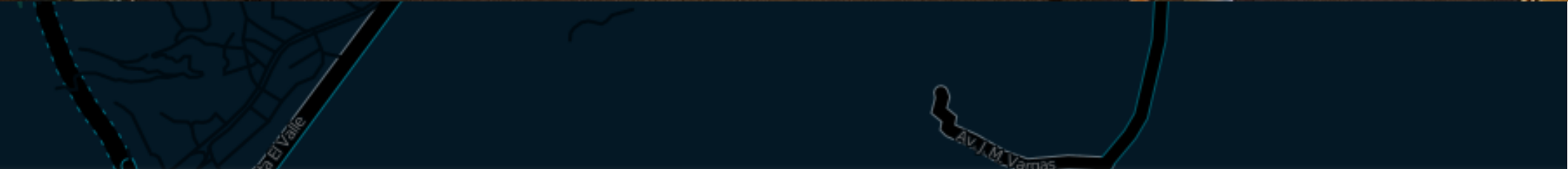
# OpenStreetMap es...



# OpenStreetMap es...

- 5 años
- 498.489.087 puntos
- 189.155 usuarios
- 400+ profesionales

(Estadísticas a fecha 29/11/2009)



mmm ¿pero esto no lo tenemos ya?

Google Maps interface showing directions from Mountain View to Stanford, CA. The start address is "google, mountain view" and the end address is "Stanford, CA". The route is displayed on a map, showing a path through Palo Alto and Menlo Park.

**Search Results** | My Maps

Directions: [Drive There](#) - [Take Public Transit](#)

Options ▾ | Alternate routes ▾

**From:** Google Headquarters  
1600 Amphitheatre Pkwy,  
Mountain View, CA 94043

**Public transit** \$3.50 (vs. \$3.03 driving)  
Showing Trip 1 | Travel time: about 54 mins

**Walk** to Charleston & Huff (about 4 mins)

**Board** the VTA 40 - La Avenida - SN Antonio Shop CTR (Direction: 40 SB San Antonio Shopping Center)  
9:38am Depart Charleston & Huff  
⋮ 11 mins  
9:49am Arrive Showers & Latham

**Transfer** to the 22 - Eastridge - Palo Alto/Menlo Park (Direction: 22 WB Palo Alto Transit Center; 9 mins to make transfer)  
9:58am Depart El Camino & Showers  
⋮ 16 mins  
10:14am Arrive El Camino & Embarcadero

**Walk** to Stanford, CA (about 14 mins)

**To:** Stanford, CA



esto va de propiedad  
intelectual!



# Google vs. OSM

Google MapMaker: “*vuestro trabajo es nuestro*”



MapMaker

desequilibrio de derechos y obligaciones

sólo para uso personal

no se permiten descargas masivas

....  
Usar GM para hacer *mashups*...

- atribución estricta
- sólo para aplicaciones públicas
- ¿publicidad en sus mapas?

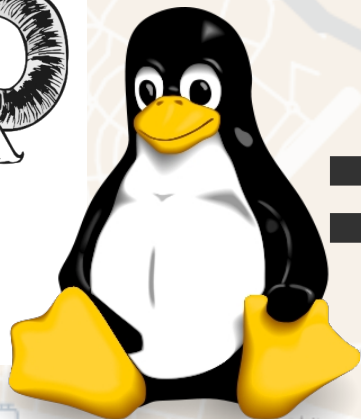
# OSM es “libre de libertad”

*muchos de los mapas  
que podrían parecer  
libres realmente  
tienen restricciones  
legales o técnicas en  
su uso*



RMS by

<http://www.flickr.com/photos/dunechaser/160405823/>



=

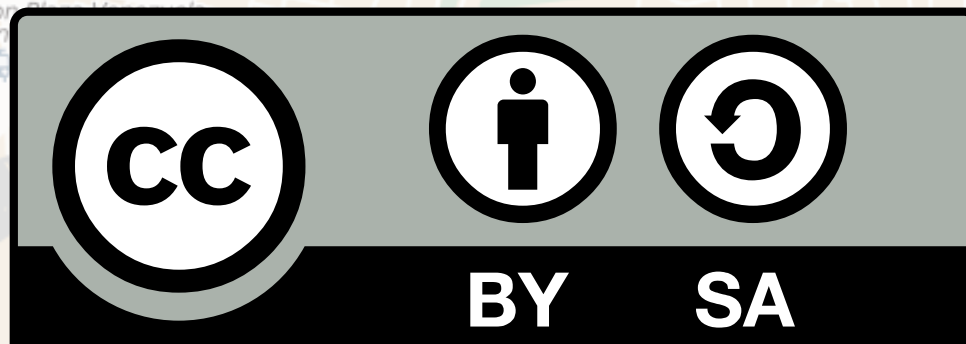


**Free as in Freedom**



**WIKIPEDIA**  
*The Free Encyclopedia*

=

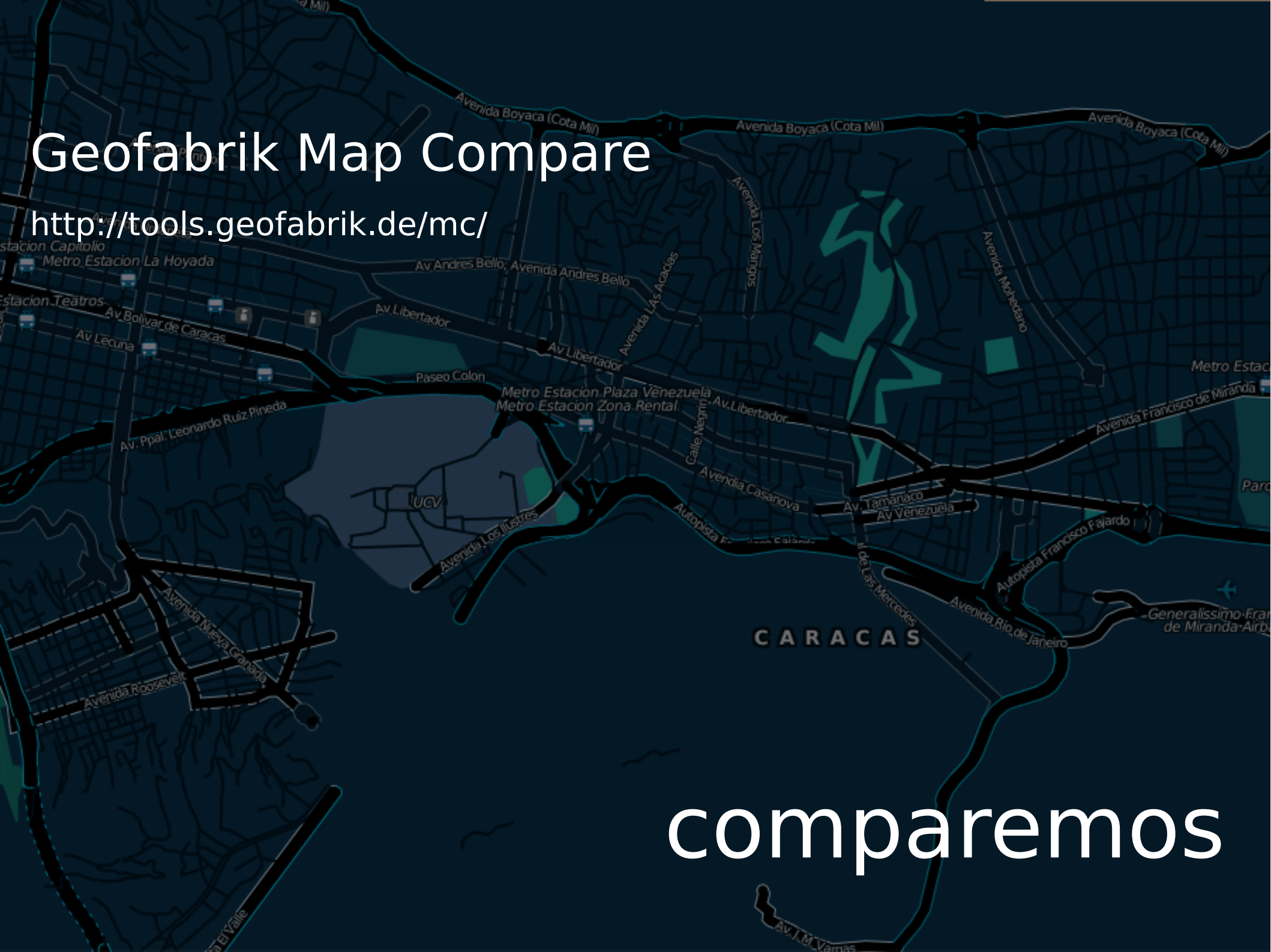


=

**ODbL**

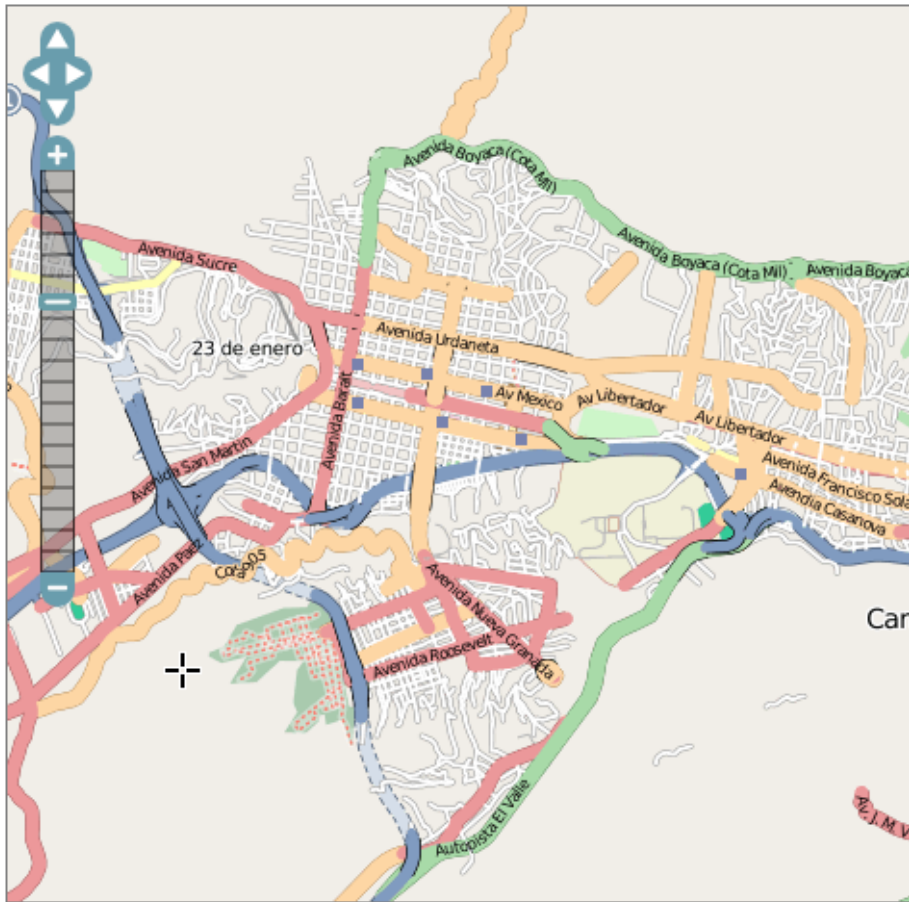
# Geofabrik Map Compare

<http://tools.geofabrik.de/mc/>



comparemos

# GOOG vs. OSM

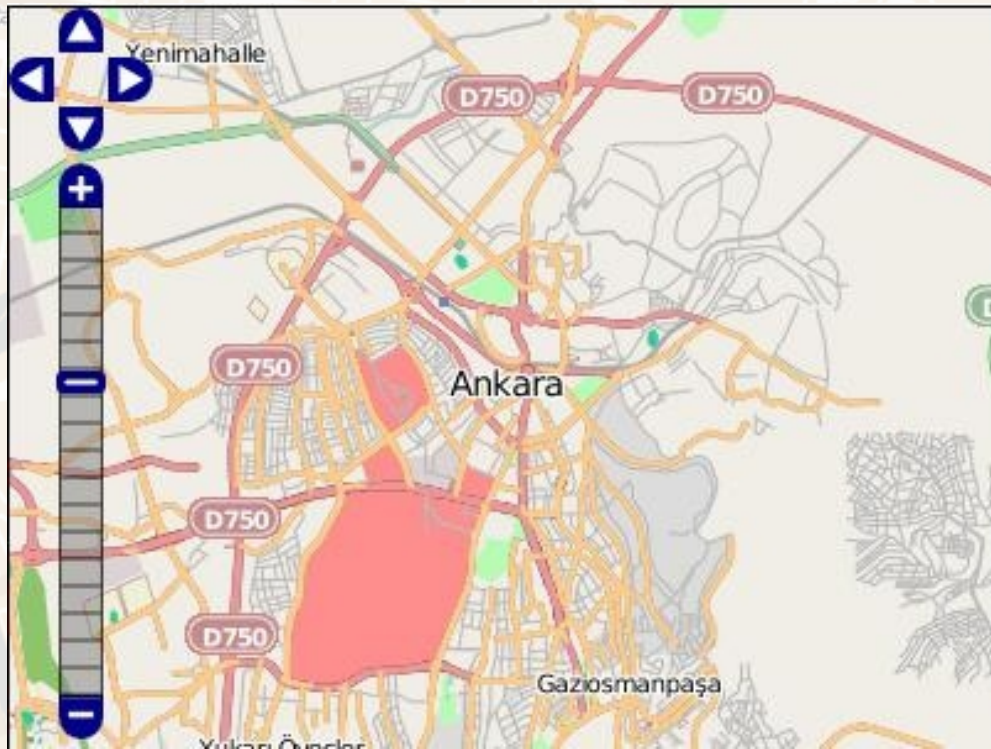


OSM



Google: gana

# GOOG vs. OSM



OSM



Google: gana

# GOOG vs. OSM



OSM



Google: gana por un pelo

# GOOG vs. OSM



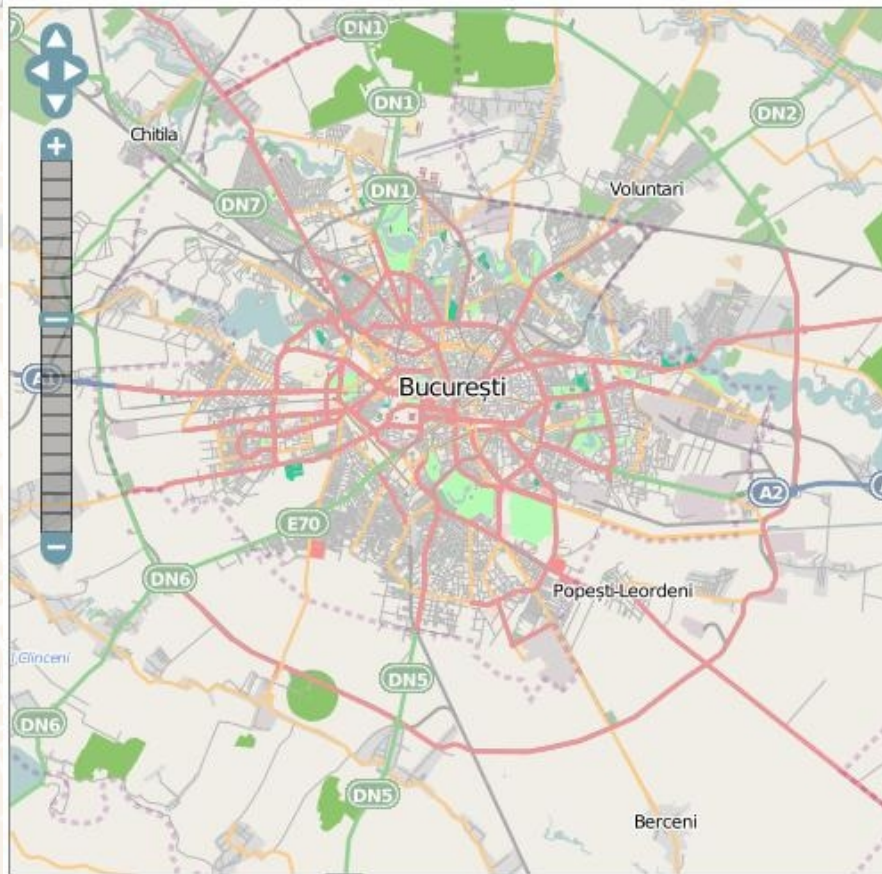
OSM: gana



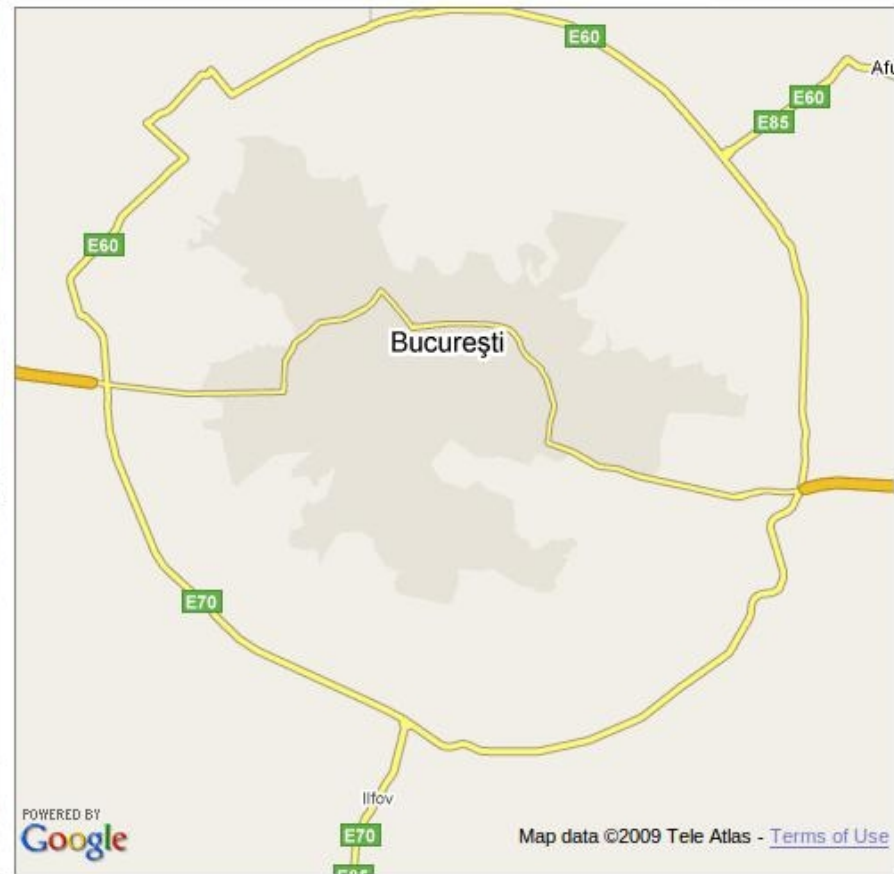
Google



# GOOG vs. OSM

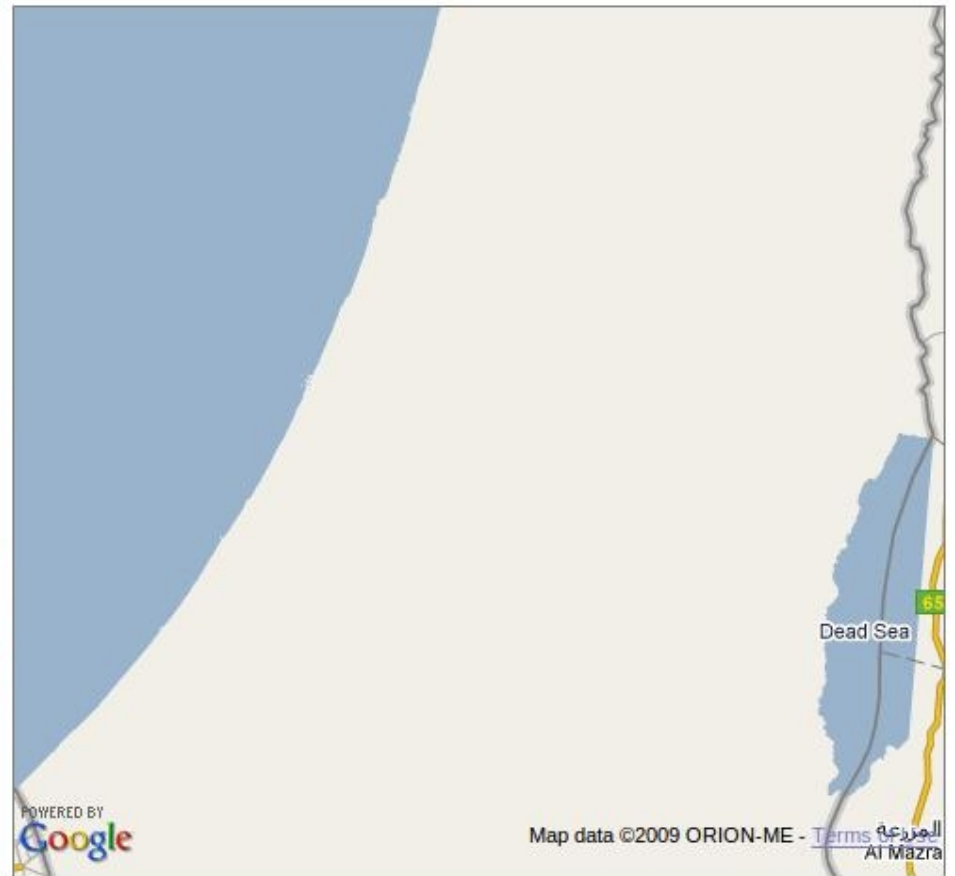


OSM: gana



Google

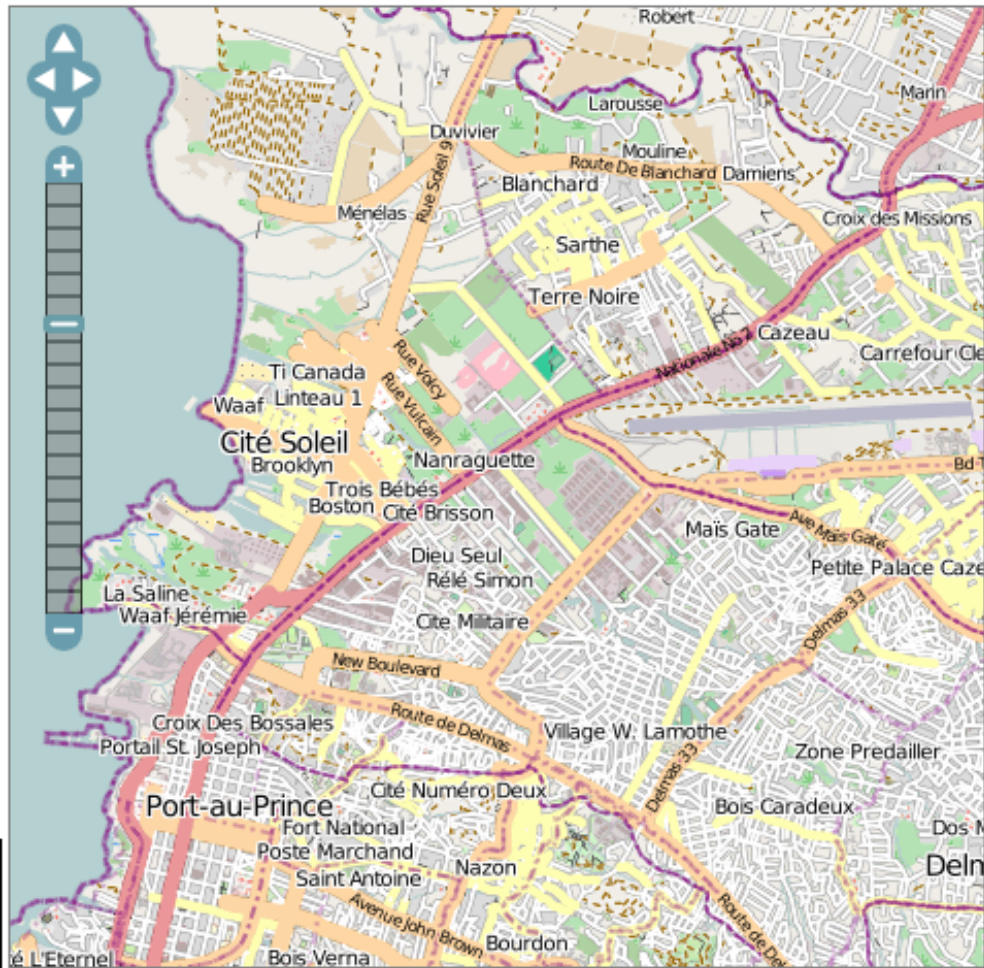
# GOOG vs. OSM



OSM: gana.... ¿dónde?

Google

# OSM en Haïti





# OpenStreetMap en Chile

CARACAS

# Actualidad

- Terremoto de 27 de Febrero de 2010.
- Contactos con organismos de Gobierno que cuentan con Información Geográfica
- Participación en distintas conferencias y seminarios



- Creacion de Sitio .CL desde Mayo de 2008  
- Lista de Correos vigente desde Septiembre de 2009.



- Sitio Web: [www.OpenStreetMap.cl](http://www.OpenStreetMap.cl)

- Lista de correos:

<http://lists.openstreetmap.org/listinfo/talk-cl>



muy bonito ¿pero cómo?



///MAPPING PARTY///MAPPING PARTY///MAPPING PARTY///MAPPING  
///MAPPING PARTY ///MAPPING PARTY//



///MAPPING PARTY///MAPPING PARTY///MAPPING PARTY///MAPPING  
///MAPPING PARTY ///MAPPING PARTY//





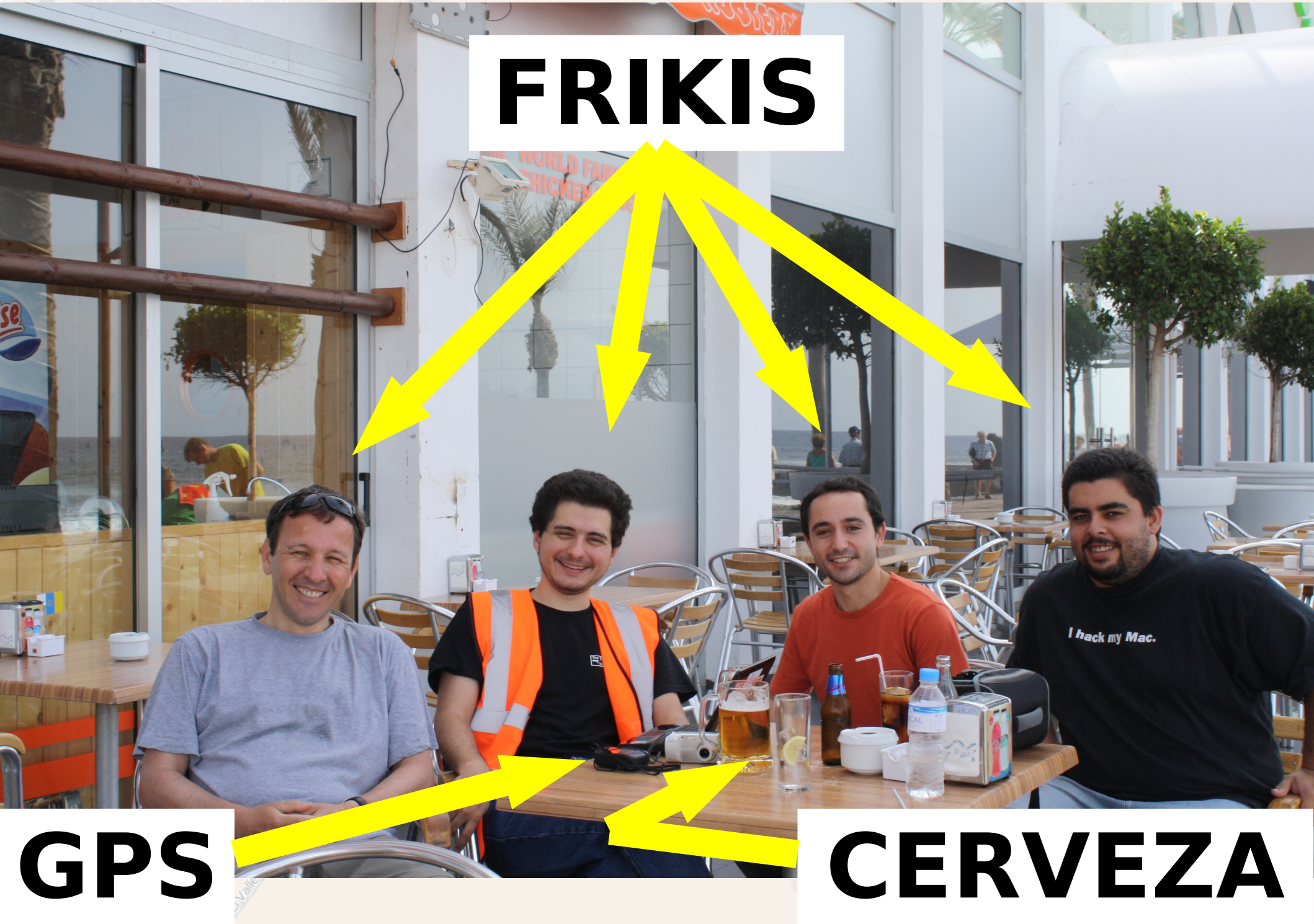
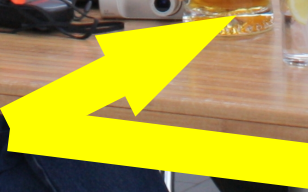
**FRIKIS**



**GPS**



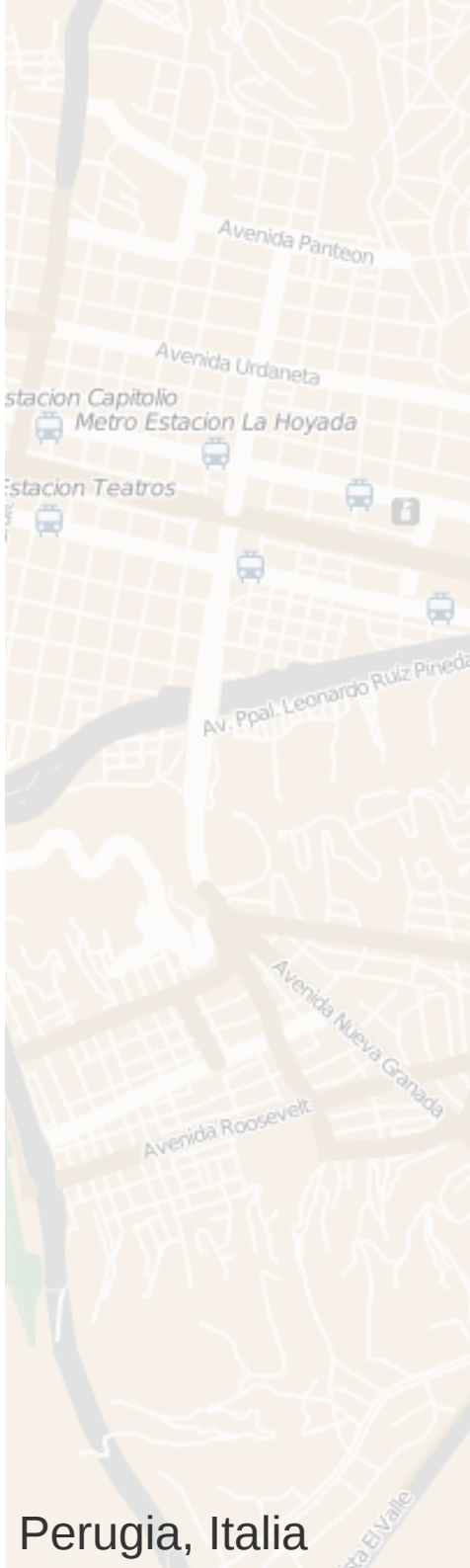
**CERVEZA**





Mikel Maron, Williamsburg

<http://www.flickr.com/photos/kellan/342462201>





“Map Kibera” project, Nairobi, Kenya

<http://www.flickr.com/photos/junipermarie/4097408553/>

## OpenStreetMap



The Free Wiki World Map

OpenStreetMap is a free editable map of the whole world. It is made by people like you.

OpenStreetMap allows you to view, edit and use geographical data in a collaborative way from anywhere on Earth.

OpenStreetMap's hosting is kindly supported by the [UCL VR Centre](#) and [bytemark](#). Other supporters of the project are listed in the [wiki](#).

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## Viewing trace 20100409.gpx



Filename: 20100409.gpx ([download](#))

Uploaded: 9 April 2010 at 16:15

Points: 328

Start coordinate: 42.5393; 1.73338 ([map](#) / [edit](#))

Owner: [XuRxO](#)

Description: Walking at Pas de la Casa (Andorra)

Tags: [Andorra](#), [Pas de la Casa](#)

Visibility: Identifiable (shown in trace list and as identifiable, ordered points with timestamps)



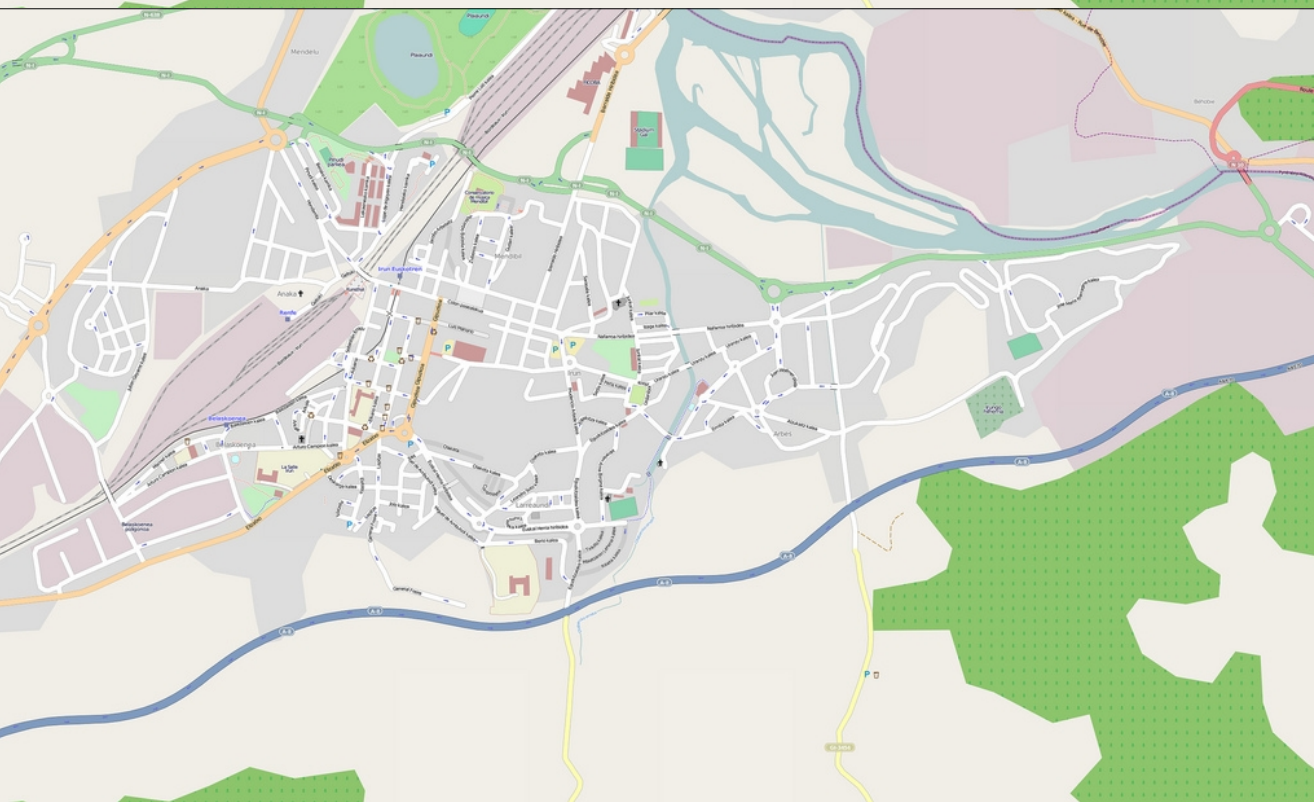
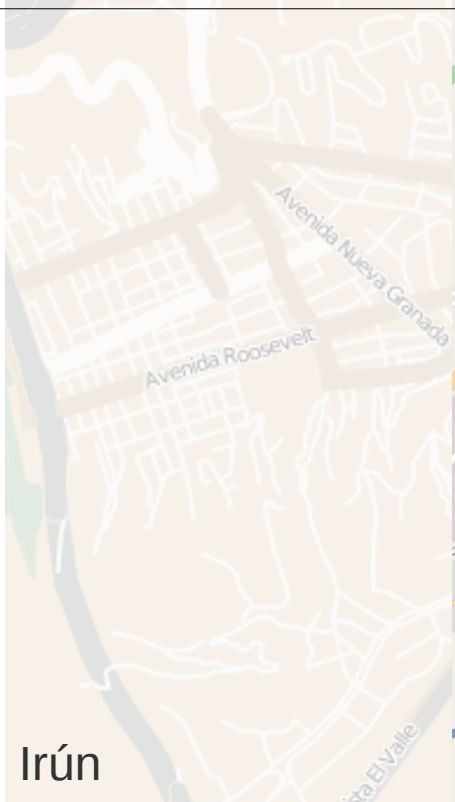
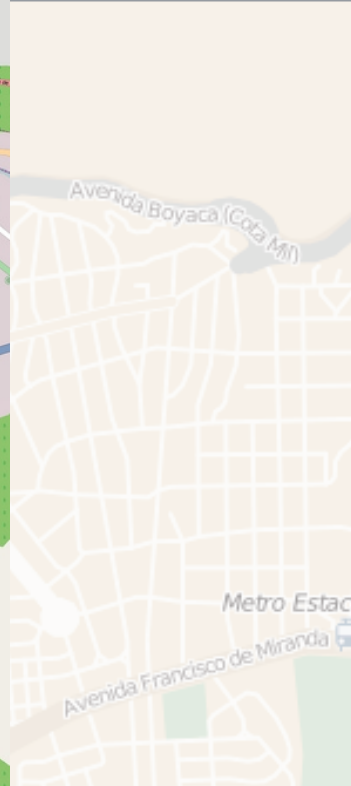


Ordizia, País Vasco

<http://www.flickr.com/photos/tagzania/3965549378>



02/06/2009





Cafe bar jh

Sarriés

devinos Iruña

Cafeteria Boulevard

Pamplona

P

Beatriz Arbizu Ros

Paseo Anelher - Anelher paselekua

Calle del Rio Arga - Arga hitona  
Calle del Rio Arga - Arga hitona

Calle Jaurreta - Eauriz kalea

Calle Orontz - Orontz kalea

Calle Bernardino Tirapu - Bernardino Tirapu kalea

Calle Arbizu - Arbizu Kalea

Calle Justarocha - Justarocha kalea

Calle Sarriés - Sarze kalea

Calle Ezkaroze - Ezkaroze kalea

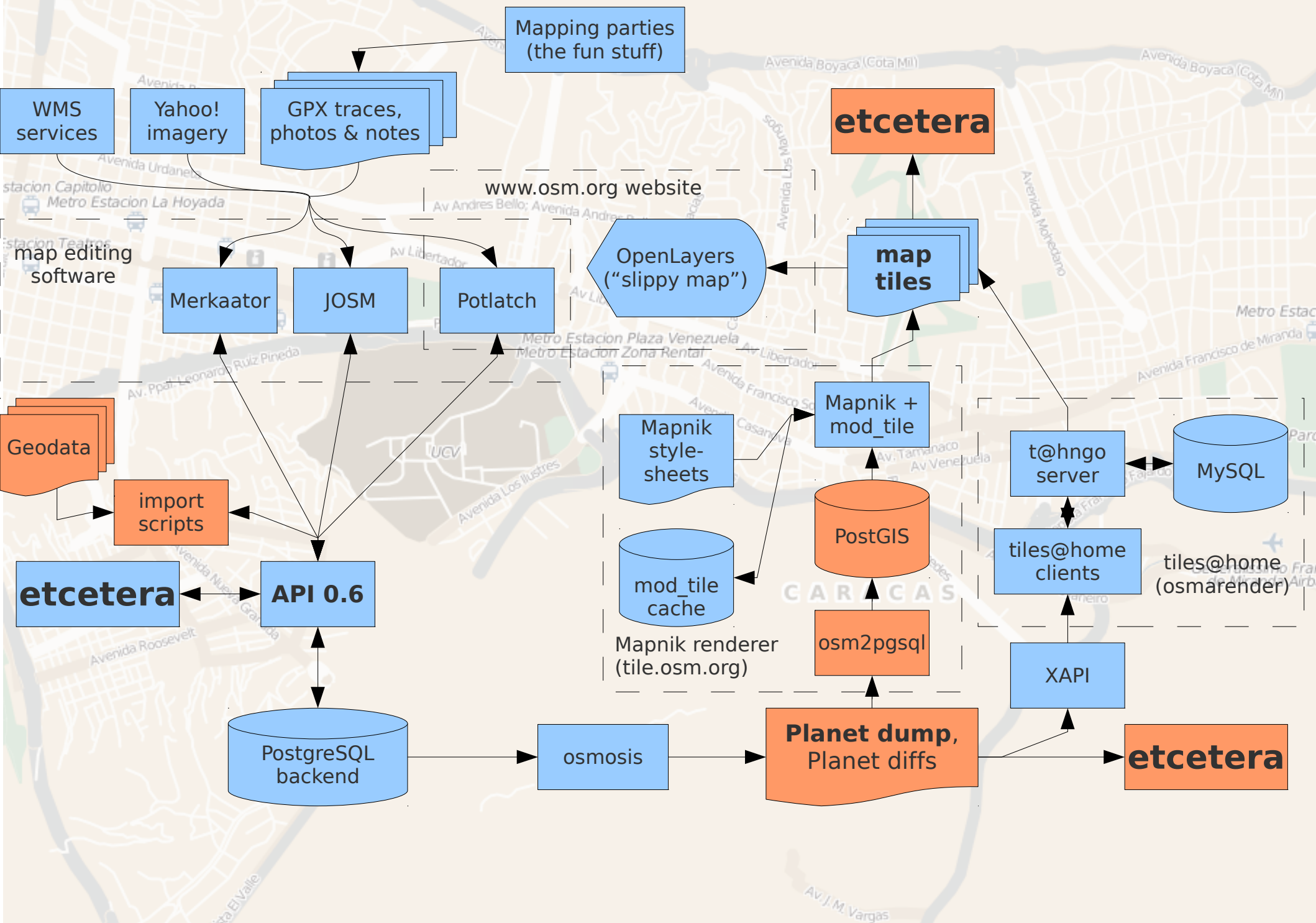
Calle Joaquín Beunza - Joaquín Beunza kalea

Calle Arbizu - Arbizu Kalea

Travesía de las huertas - Baratzak zeharkalea

Calle Arbizu - Arbizu Kalea

Calle dr  
Calle d



Mapping parties  
(the fun stuff)

WMS  
services

Yahoo!  
imagery

GPX traces,  
photos & notes

**etcetera**

www.osm.org website

map editing  
software

Merkaator

JOSM

Potlatch

OpenLayers  
("slippy map")

map  
tiles

Geodata

import  
scripts

**etcetera**

**API 0.6**

PostgreSQL  
backend

osmosis

**Planet dump,  
Planet diffs**

**etcetera**

Mapnik  
style-  
sheets

mod\_tile  
cache

Mapnik renderer  
(tile.osm.org)

Mapnik +  
mod\_tile

PostGIS

osm2pgsql

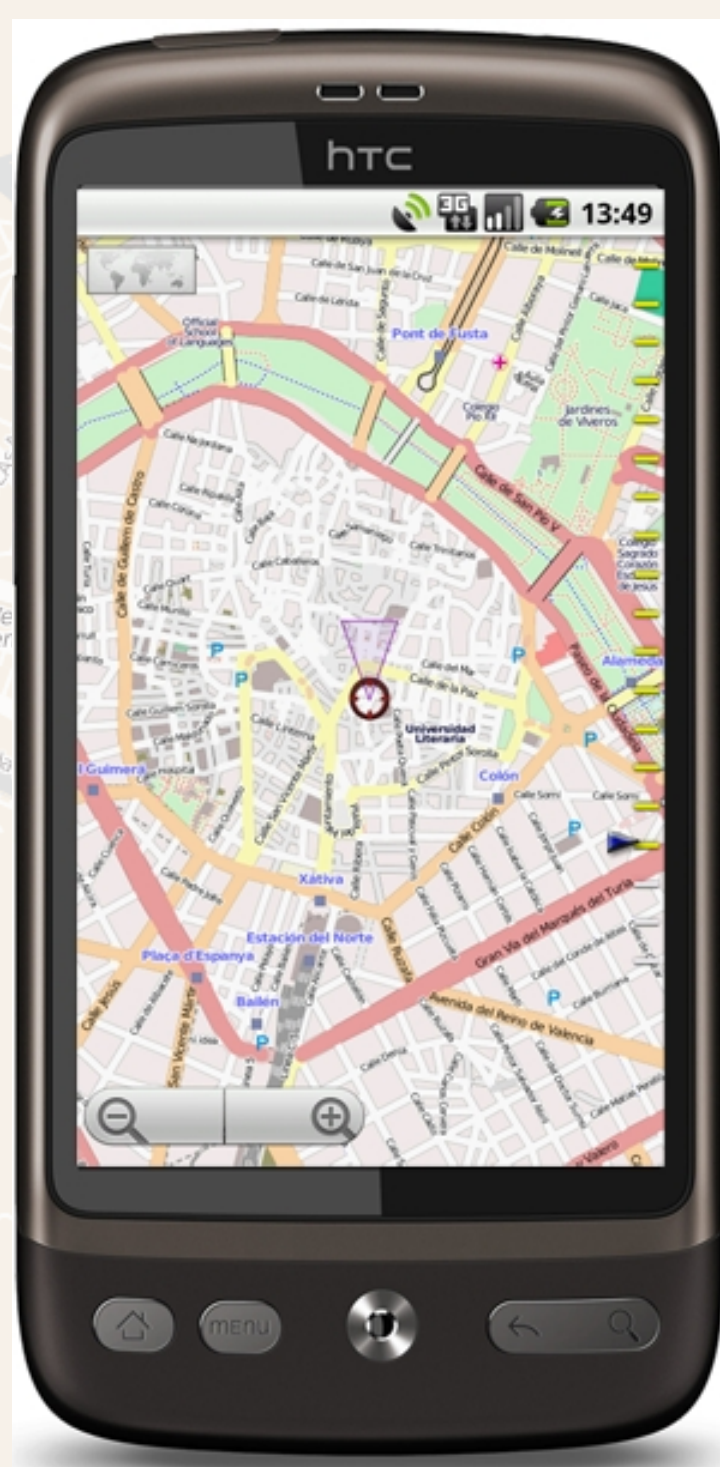
t@hngo  
server

MySQL

tiles@home  
clients

tiles@home  
(osmarender)

XAPI





Jorge Sanz <[jsanz@gvsig.com](mailto:jsanz@gvsig.com)>  
César Medina <[ciesaremedina@gmail.com](mailto:ciesaremedina@gmail.com)>