OSM applications in the Debian GIS project
How Debian supports OpenStreetMap applications

Andreas Tille
Debian

LSM, Montpellier, 11. July 2014
1. Short introduction of Debian GIS Blend

2. The people caring for OSM software in Debian

3. OSM workflow
   - Trip preparation
   - On your trip
   - After collecting data on the trip
   - Hosting your own OSM server
OpenStreetMap Applications in Debian

Andreas Tille (Debian)
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Purpose of Blends

- Making a certain topic "hot"
- Debian GIS attracts GIS and OSM users to Debian
- Teach users & developers how to work together with Debian since they can contact the Debian GIS team

A Blend is a way to advertise Debian in a specific work field

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- perfectly possible to have its on Blend for OSM
- matter of critical mass
- following the example of biology inside Debian Med
- complex packaging tasks are profiting from developer team

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Turn Debian into the distribution of choice for OSM users
Waking up in the morning and realising that somebody else has solved your problem from yesterday
Top 10 people discussing on Debian GIS mailing list

- Francesco P. L (1033)
- Paolo C (517)
- Hamish (428)
- Petter R (249)
- Andreas T (233)
- Steve H (190)
- Sebastiaan C (143)
- alex b (105)
- Paul W (101)
- Silke R (96)
Top 10 Uploaders of Debian GIS

Debian GIS

Francesco Paolo L 444
David P 190
Bas C 89
Petter R 40
Sylvestre L 36
Fabio T 34
Andreas P 25
Markus W 22
Youhei S 16
Peter S G 15

Pkg OSM

David P 130
Jonas S 14
Giovanni M 8
Mònica Ramírez A 3
Andrew O. S 3
Top 10 Debian GIS developer discussion

Debian GIS

Pkg OSM

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Top 10 bug hunters of Debian GIS packages

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OSM applications in Debian
LSM, Montpellier, 11.07.2014
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Top 10 contributors to VCS

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Pkg OSM

Andreas Tille (Debian)  OSM applications in Debian  LSM, Montpellier, 11.07.2014 12 / 33
Why two packaging teams

- packaging GRASS was historic root of Debian GIS
- pkg-grass name simply came up first
- there are people who consider OSM different enough to create a separate packaging team pkg-osm
- turned out that there is quite some common set and splitting man-power does not make sense
- packages maintained by pkg-osm will be merged into pkg-grass repository that remains the single Debian GIS repository
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QLandkarteGT: plan your trip

- GPS mapping (GeoTiff and vector) and GPS management
- drivers for Garmin devices are in qlandkartegt-garmin package
- useful for testing selfmade Garmin maps
- serves as a frontend to the GDAL tools
- straightforward interface
- suited for beginners willing to spend some time into it
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- set of tools for finding a route between two points
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maptool: convert OpenStreetMap maps to Navit

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- original name: prune
- viewing, editing and converting coordinate data from GPS
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Viking: clean up your track (alternative)

- GPS data editor, analyzer and viewer
- supposed to have the same functionality like $gpsprune$
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JOSM: edit the map

- most used / advanced editor for OpenStreetMap data
- there are users who swear that JOSM should be used from SVN and packaging would be useless
- there is a package anyway for those who disagree
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- tilecache: web map tile caching system
- tilelite: lightweight Mapnik tile-server
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- libjs-openlayers: JavaScript library for displaying map data in web browsers
- osmjs: osmium-based Javascript framework for OSM data
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Excurssus: Do-O-cracy

Several years ago on an LSM (RMLL) event I was asked: "Will Debian support Quantum GIS?"

Sorry that’s the wrong question.

Debian is a Do-O-cracy
== the doer decides what will be done

So if you, yes you, will package qgis in Debian than Debian will support qgis

Finally such a "you" decided to do the work

But if you . . . again I mean you have some interesting application in mind which should be in Debian according to your opinion it is up to you to start the work . . .

. . . and the Debian GIS team will help you to finalise your work
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- OSM task of Debian GIS
- Wiki
- package thermometer
- mailing list
- #debian-gis on irc.debian.org (OFTC)
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Summary

- full OSM workflow inside Debian
- however, there is more cool stuff to package out there
- prove people claiming you should not package OSM software wrong
- unfortunately lacking publicity (via talks like this etc.)
- enhance teamwork (pkg-grass + pkg-osm)
- find new team members to enlarge team
- common sprints (developer meetings)

→ Do good things and talk about it
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→ *Do good things and talk about it*
This talk is available at

http://people.debian.org/~tille/talks/

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