

Debian GIS

Introducing a Debian Pure Blend for Geographic Information
Systems

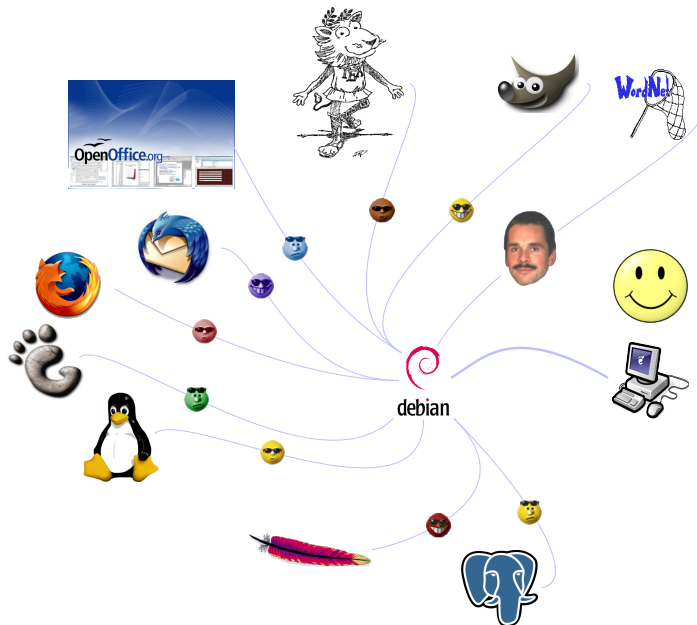
Andreas Tille

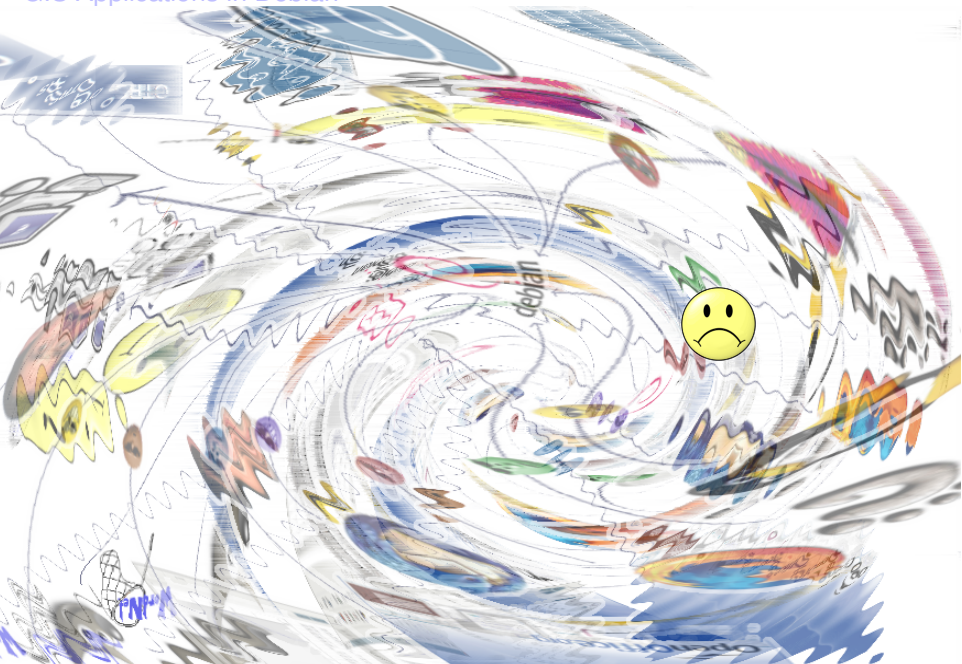
Debian

LSM, Montpellier, 9. July 2014

- 1 The Blends concept
- 2 The Debian GIS team
- 3 Selected packages

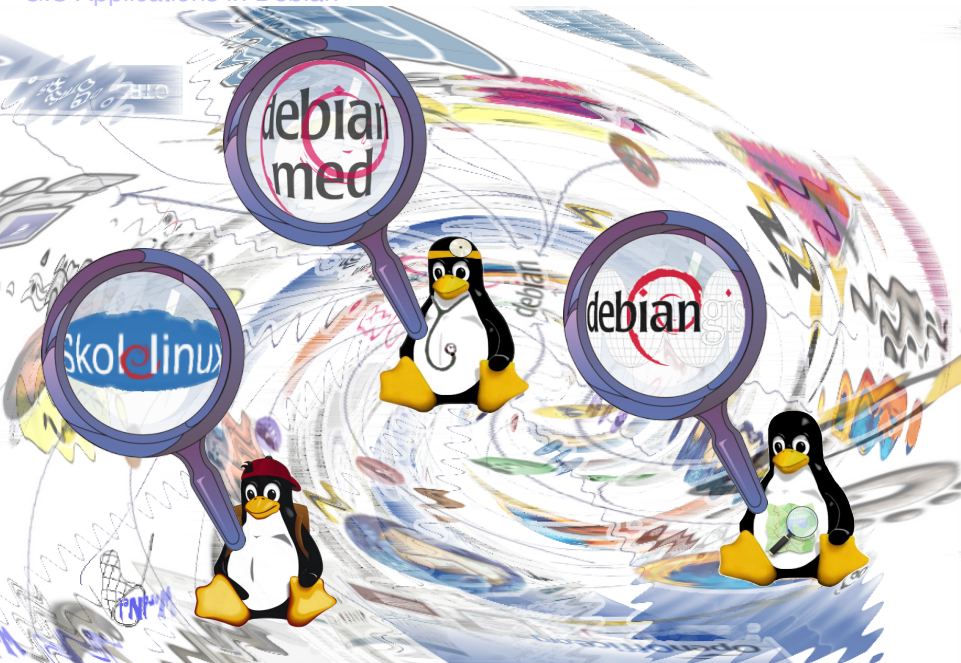
Debian











Debian Med

DebiChem

Debian Science



Debian Edu

Debian Jr

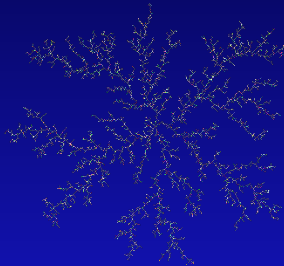
Debian Multimedia

Debian GIS

Debian Med

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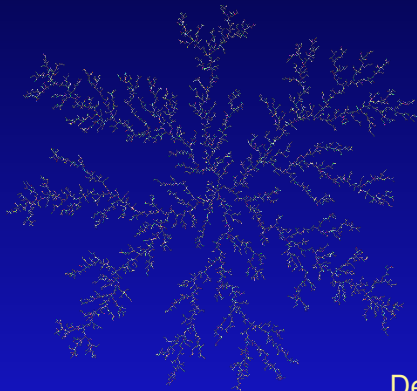
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The name

- "*Debian Internal Projects*" became
- "*Custom Debian Distributions*" → total failure
- DebConf 2008 "*Debian Internal Solutions*"???
- People popped up for the only purpose of bikeshedding
- Vote ended up in "*Debian Pure Blends*" in short "*Blends*"

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- Fedora Geo Spin
- OpenSuSE ???
- Ubuntu GIS
- XUbuntu derivative: OsGeo-Live
- FreeBSD Ports: Geography

→ *Debian GIS working together with
Ubuntu GIS + OsGeoLive*

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Purpose of Blends

- Making a certain topic "hot"
- Attract users of the specific working field interested in Debian
- Teach users & developers how to work together with Debian (via Blend team)

*A Blend is a way to advertise Debian
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Why GIS in a Debian Blend?

- Following the example of Debian Med and Debian Science
- Specialised software has a comparatively small user base
- Complex packaging tasks are profiting from developer team
- Pushes Debian into a field of dominant proprietary software

*Turn Debian into the distribution
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*Waking up in the morning and realising
that somebody else has solved your
problem from yesterday*

Available Blends tools and formalisms

- General creation of metapackages based on tasks files (*blends-dev*)
- Web sentinel *tasks*
- Web sentinel *bugs*
- Web sentinel *"thermometer"* designed for Debian / Ubuntu GIS
- Handling of scientific citations
- Making use of *UDD* for several purposes (web sentinel, citations, prospective packages in VCS, upload + bugs statistics)
- *Debian GIS policy*
- *Sponsering of Blends*
- Suggested: *Mentoring of the Month*

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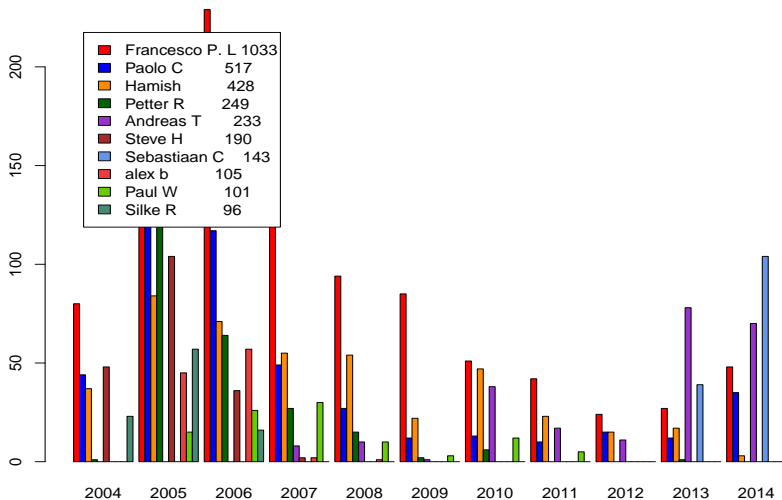
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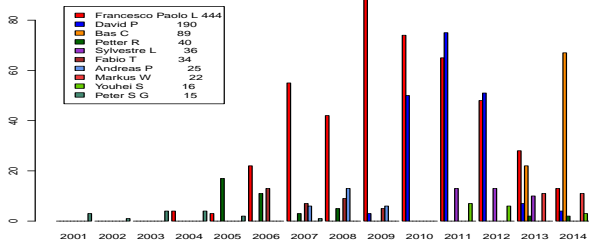
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Top 10 people discussing on Debian GIS mailing list

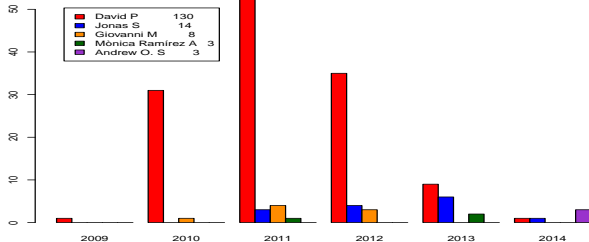


Top 10 Uploaders of Debian GIS

Debian GIS

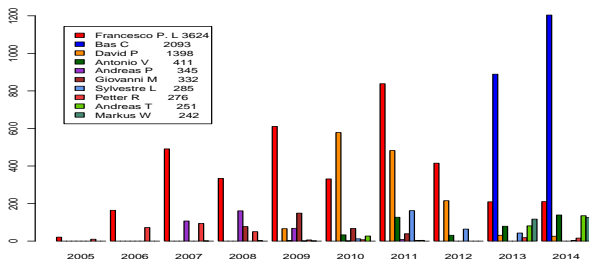


Pkg OSM

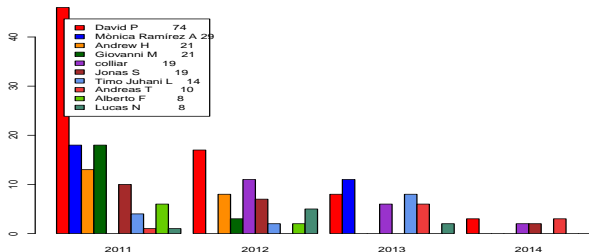


Top 10 Debian GIS developer discussion

Debian GIS

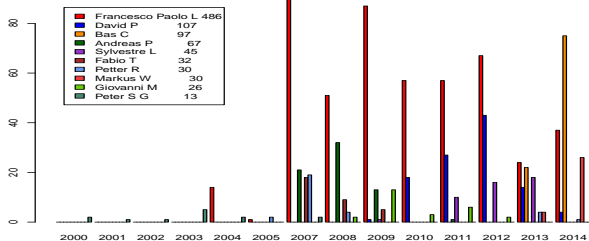


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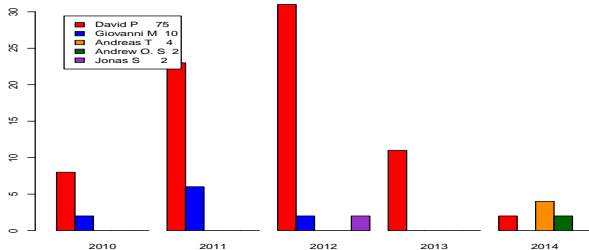


Top 10 bug hunters of Debian GIS packages

Debian GIS

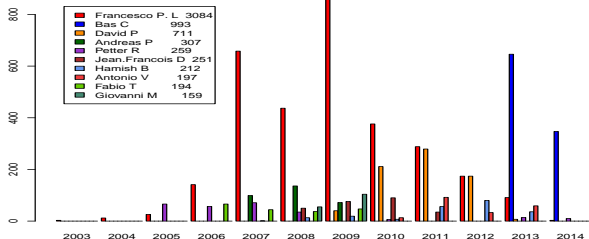


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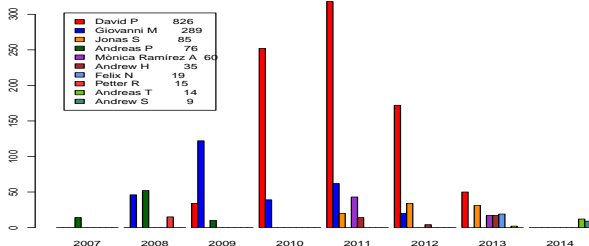


Top 10 contributors to VCS

Debian GIS



Pkg OSM



Why two packaging teams

- **packaging GRASS was historic root of Debian GIS**
- that's why the pkg-grass name came up first
- since there are people who consider OSM different enough to create a separate packaging team pkg-osm was started
- 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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Cooperation UbuntuGIS & OSGeo

- OSGeoLive creates live medium based on UbuntuGIS
- since Ubuntu is based on Debian it makes sense to work together
- currently there is some effort to consolidate the packaging in pkg-grass repository (on alioth.debian.org)
- work together, do not reinvent the wheel
- working on this is one goal of a GSoC project

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- *The* free geographic information system
- geospatial data management and analysis, image processing, graphics/map production, spatial modeling, and visualization
- used in academic and commercial settings around the world, as well as by many government agencies and environmental consulting companies
- steep learning curve

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- manages, analyzes, and displays databases of geographic information
- shape file viewing and editing
- spatial data storage with PostgreSQL/PostGIS (also packaged)
- map composition
- display of various georeferenced raster and Digital Elevation Model formats

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Excursus: 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 then 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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tilestache map tiles caching system

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osmjs osmium-based Javascript framework for OSM data

libjs-leaflet JavaScript library for mobile-friendly interactive maps

Links, contacts

- [Wiki](#)
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- [live images](#)
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- various GIS applications packaged for Debian
- maintainers doing a high quality job in packaging
- unfortunately lacking publicity (via talks like this etc.)
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This talk is available at
<http://people.debian.org/~tille/talks/>
Andreas Tille <tille@debian.org>

