### **Debian Science**

Umbrella for scientific packages or dustbin for scientific code

Andreas Tille

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### Overview

Current status

Better science support in Blends

3 Problems and suggested solutions

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- Reside completely inside Debian (no derivative)
- Form packaging team around specific topic
- Advertising and QA of packages in web sentinel

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### Debian Med Strong focus on Microbiology

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- Advantages are not widely known
- In my talk @ DebConf 13 Asheesh Laroia (in *video* at about minute 38):
  - "We should try hard to run around asking users and developers: Is there a topic you care about create a Blend today."
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- Tasks web pages (featuring citations!)
- Specific bugs overview
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  - a. "random" person or
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- Advertise upstream publications
- Link to registration
- Provide popcon stats
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# Science specific metapackages

- Brain-computer interface (science-bci)
- Biology (science-biology)
- Chemistry (science-chemistry)
- Economics (science-economics)
- Electronics (science-electronics)
- Electrophysiology (science-electrophysiology)
- Engineering (science-engineering)
- Financial engineering (science-financial)
- Geography (science-geography)
- Geometry (science-geometry)
- High Energy Physics (science-highenergy-physics)
- Linguistics (science-linguistics)

# Science specific metapackages (continued)

- Logic (science-logic)
- Machine Learning (science-machine-learning)
- Mathematics (science-mathematics)
- Meteorology (science-meteorology)
- Nanoscale Physics (science-nanoscale-physics)
- Cognitive Neuroscience (neuroscience-cognitive)
- Modeling of neural systems (science-neuroscience-modeling)
- Numerical Computation (science-numericalcomputation)
- Physics (science-physics)
- Psychophysics (science-psychophysics)
- Robotics (science-robotics)
- Social (science-social)

### Common science utilities

- Data acquisition (science-dataacquisition)
- Device (science-devices)
- Distributed Computing (science-distributedcomputing)
- Image analysis (science-imageanalysis)
- Presentation (science-presentation)
- Simulations (science-simulations)
- Statistics (science-statistics)
- Tools (science-tools)
- Typesetting (science-typesetting)
- Viewing (science-viewing)
- Workflow (science-workflow)

# Development

- Data acquisition development (science-dataacquisition-dev)
- Engineering Development (science-engineering-dev)
- High Energy Physics Development (science-highenergy-physics-dev)
- Image analysis development (imageanalysis-dev)
- Mathematics development (science-mathematics-dev)
- Meteorology development (science-meteorology-dev)
- Nanoscale Physics Development (science-nanoscale-physics-dev)
- Physics Development (science-physics-dev)
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- Single maintainers ITPs of scientific software
- Read ITPs and redirect to Debian Science team
- Single maintainers orphaned packages featuring RC bugs
- Ping maintainer, may be team hijack package
  - Developers don't care about tasks
- UDD query what packages are not mentioned in tasks

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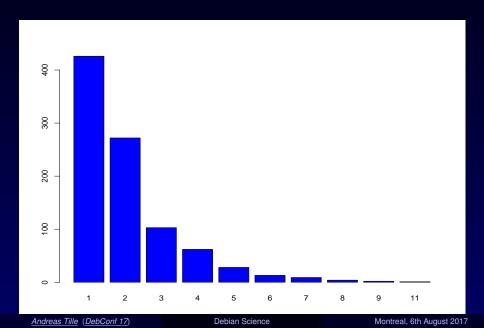
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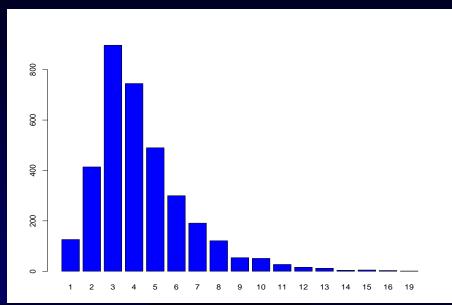
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# Bad maintainer per package relation



# Compare the graph with the one from pkg-perl team



- Scientific work is driven by projects with limited time frame
- Quite specific software frequently packaged by single maintainer (example: paw+cernlib)
- Software frequently hard to package (old libraries, FORTRAN, etc.)
- → Try hard to get more than one Uploader

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- Blends concept remains widely unknown amongst newcomers (but also amongst DDs)
- Newcomers might desperately seek for sponsors and simply do not know how to find one
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#### SoB results

- SoB was heavily used by Debian GIS team now sponsees are DDs/DMs themselves
  - It helped to drastically reducing waiting time for very active Debian Sciene members
  - Watching Wiki page and take mostly immediate action
- Lurking on relevant mailing lists as well on debian-mentors to catch maintainers in need of a sponsor
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