

# Debian Teams Activity Metrics

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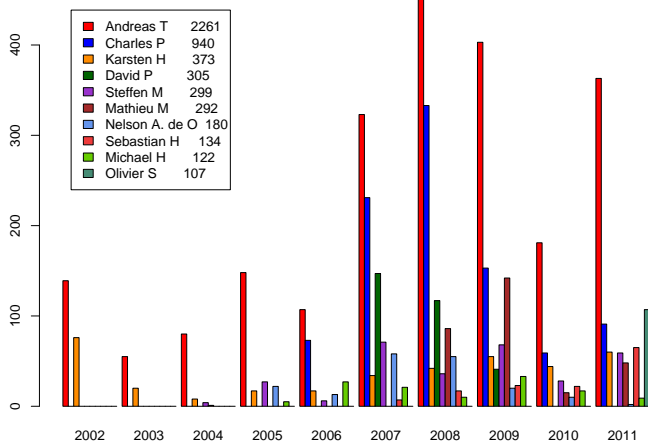
*DebConf 11*

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# Motivation

- Who is inside the team?
- Who left the team?
- Does a team have enough members?
- Is the team growing or shrinking?

## Quite simple start: Mailing list activity



## Enhancing the observation needed

- We do not only want to know who is “chatting”
- There should be a “fair” evaluation
- More flexibility
- Technical enhancements

## Additional channels / means to consider

- VCS commits
- Uploaded packages (from the UDD)
- Other ideas (IRC, ...?)

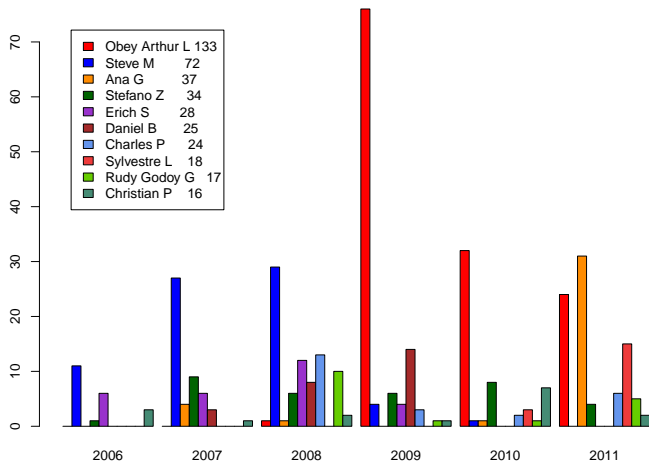
# Implementation

- We reinvented the wheel and wrote everything from scratch
- ... which makes it very easy for us to add new metrics or change existing ones
- The process is optimized because we perform remote operations for fetching repositories by SSHing into Alioth and performing them locally

# Measure of Communication Activity

- Every project has a mailing list
- We measure who are the most active contributors
- Quantity is not the only metric because quality matters
- We handle spam

## Verifying new code with 'soc-coordination' list





# Metrics for Measuring Communication Activity

- Frequency of posting
- Message body metrics
  - the raw length of the message body
  - the length of the body *excluding*
    - blank lines
    - blank lines and quotes
    - blank lines, quotes and signatures
- Anything more that we can add?

# Metrics for VCS

- Frequency of commits for Git and SVN repositories
- But again, quantity  $\neq$  quality
- So we also measure the number of lines:
  - (+) added
  - (-) deleted

# Noooooo!



- “I find your using ‘lines of code committed’ as a metric disturbing.”
- Yes, Lord Vader, but then we don’t have *many* other metrics, so...

# Challenges

- We don't have the mbox archives for lists.debian.org
  - So we fetch the archives through Gmane via NNTP, create mbox archives and then parse them
- How do we separate upstream commits for Git repositories on Alioth?
- We need more metrics for measuring performance

Please share your thoughts!

# Status

- Complete
  - Mailing list (Alioth, [lists.debian.org](http://lists.debian.org))
  - Repository (Git, SVN)
- Incomplete
  - Package upload data from UDD
  - Metrics you suggest...
  - Presenting these statistics

# Questions? Suggestions?

The more we discuss, the better we can get!

<http://teammetrics.alioth.debian.org/>