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# FLOSSMETRICS: measuring libre software

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*Research Room @ FOSDEM*  
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## Base ideas

- There are a lot of opinions about libre software development, but little known facts
- Libre software is specially interesting to study: public data, reproducibility, validation of results, large samples
- Interest by volunteers and companies
- Can libre software development be improved?
- Can software engineering learn from libre software?

<http://flossmetrics.org>

## FLOSSMETRICS goals

- Retrieval of data from (thousands of) libre software projects
- Analysis about actors, artefacts and processes involved in development
- Higher level studies: software evolution, human resources, effort estimation, productivity, quality, etc.
- Database available to other researchers
- Focus on dissemination to SMEs and industry in general
- Involvement with the libre software community

<http://flossmetrics.org>

## Main results

- Huge database with factual details about libre software development
- Higher level analysis and studies
- Sustainable platform for benchmarking and analysis
- Targeted reports (SMEs, industry, etc.)

<http://flossmetrics.org>

## Partners

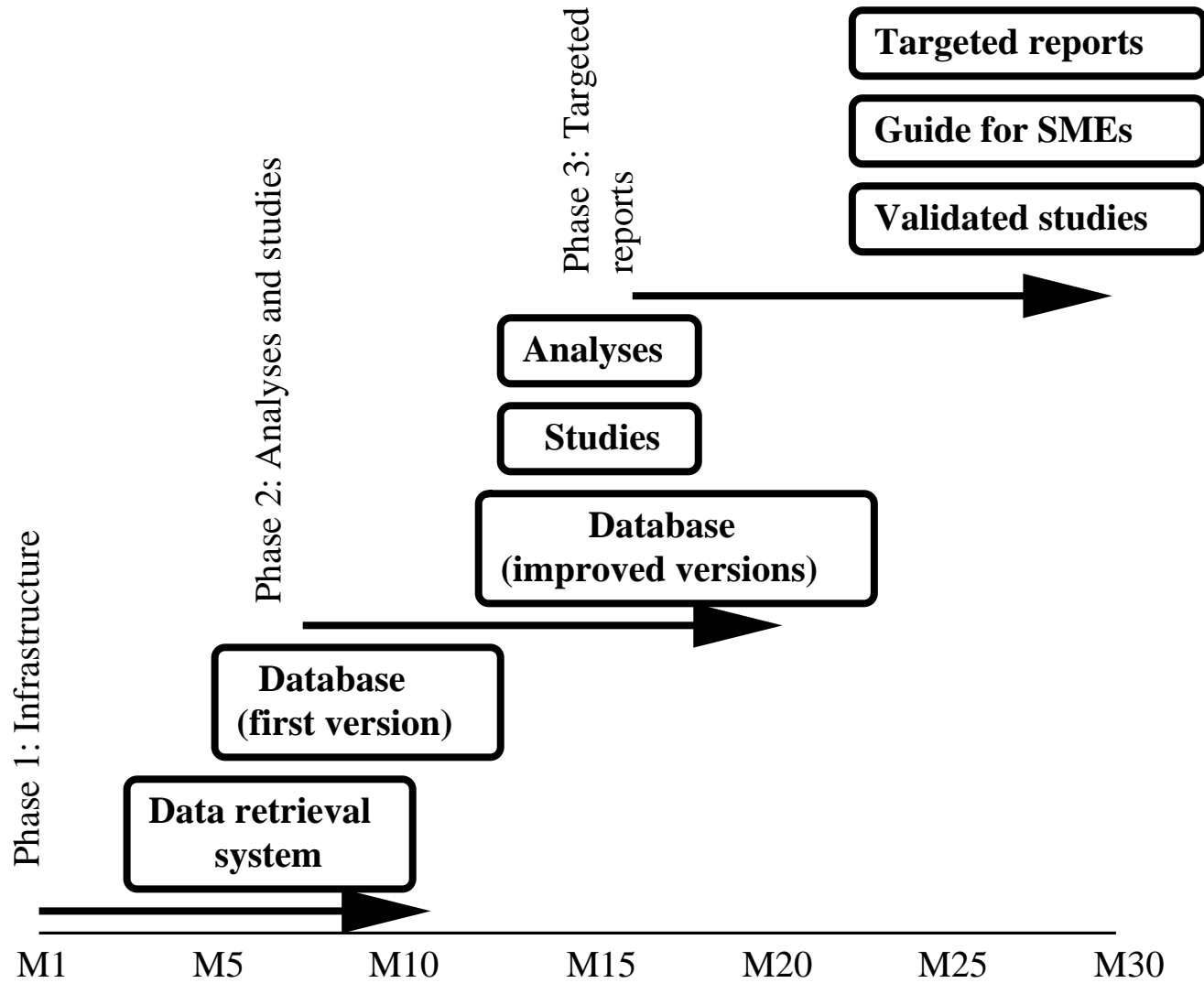
- Universidad Rey Juan Carlos (ES)
- University of Maastricht (NL)
- Wirtsshaftuniversitaet Wien (AT)
- Aristotle Univeristy of Thessaloniki (GR)
- Conecta s.r.l (IT)
- ZEA Partners (BE)
- Philips Medical Systems (NL)

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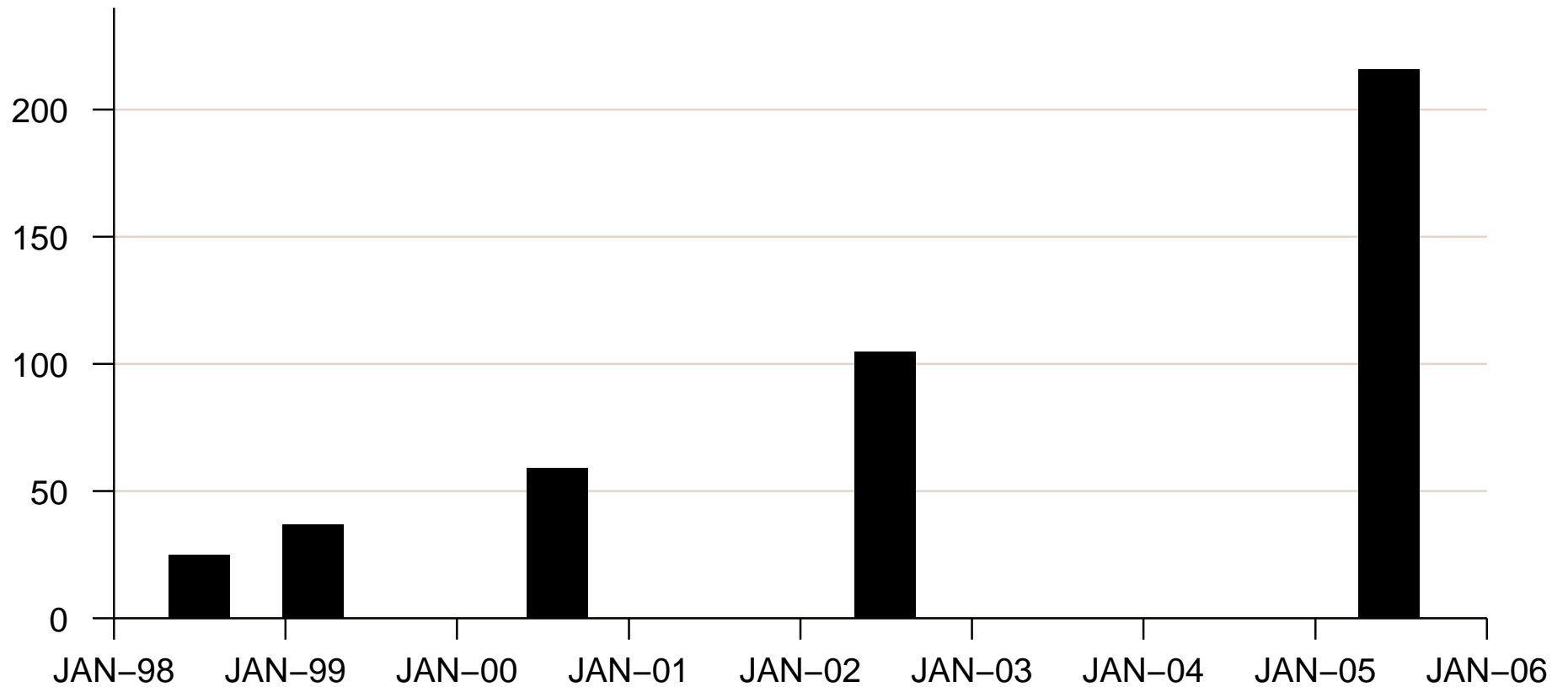
## Datasheet

- Duration: Sep. 2006 - Feb. 2009
- Budget: 585,000 euros
- Artifacts to be analyzed:
  - Projects: more than 5,000
  - Lines of code: hundreds of millions
  - Mail messages: tens of millions
  - Bug reports: tens of millions

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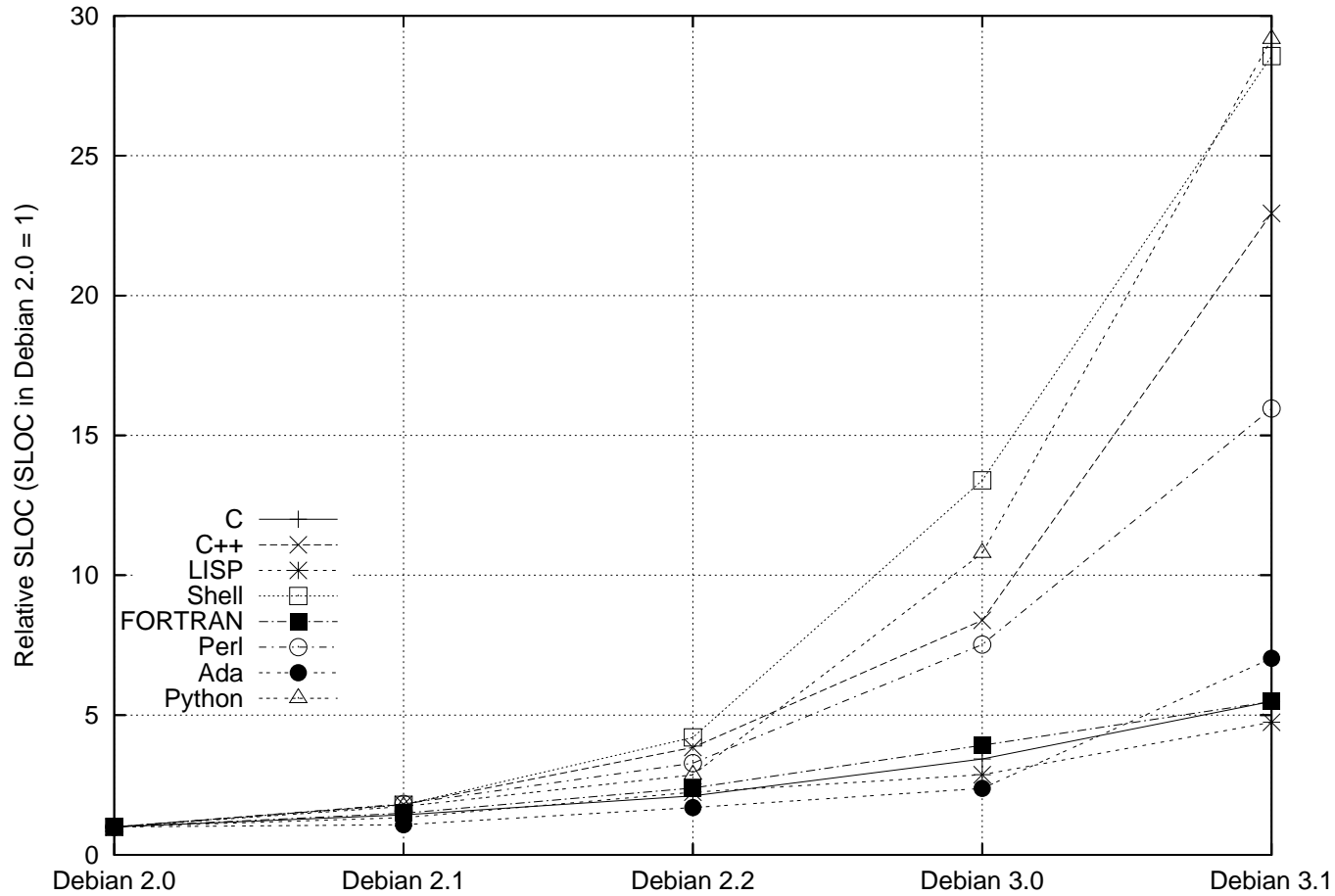


## Some examples (work in progress)



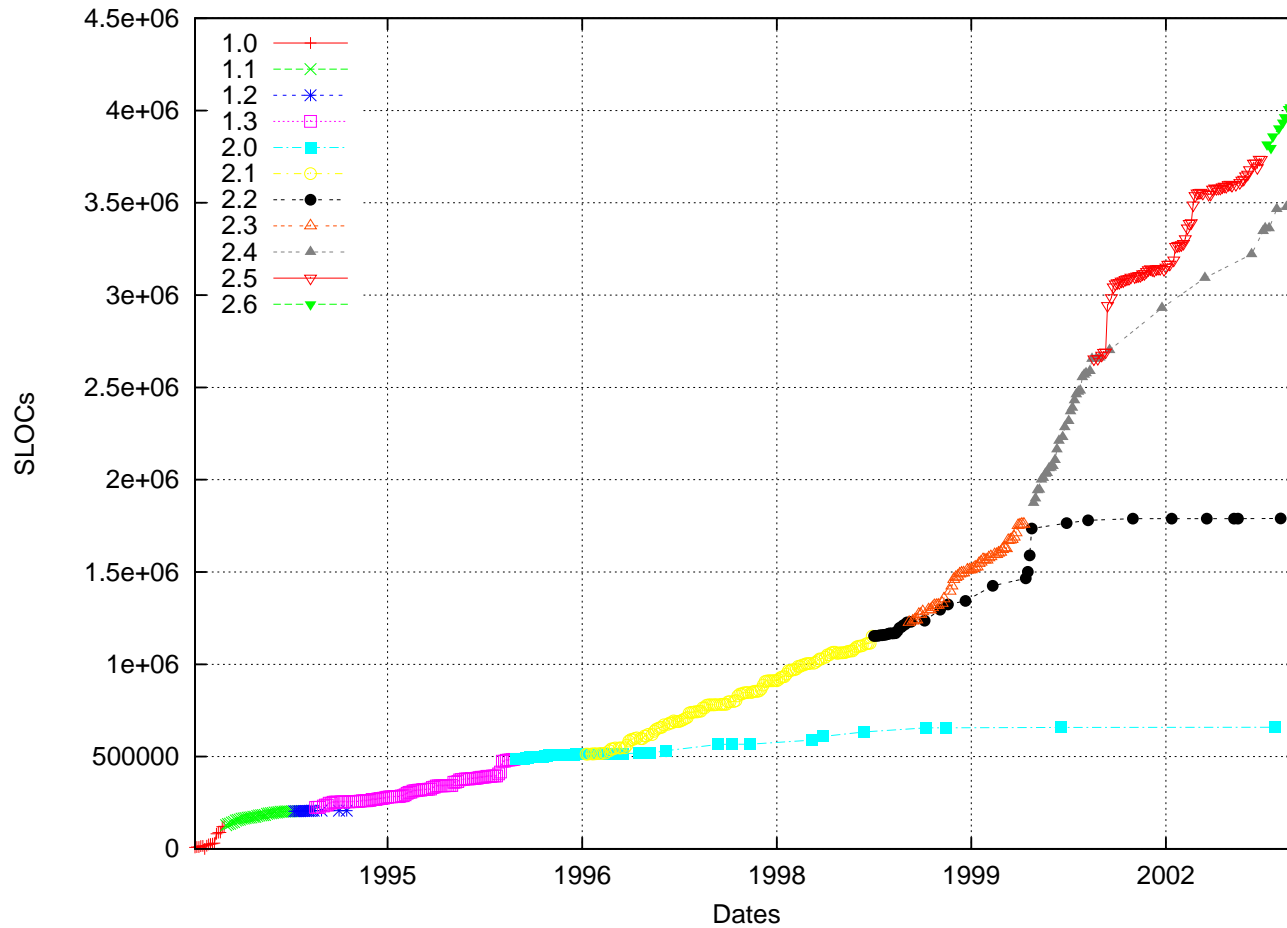
Source code in Debian (MSLOC)

# Some examples (work in progress)



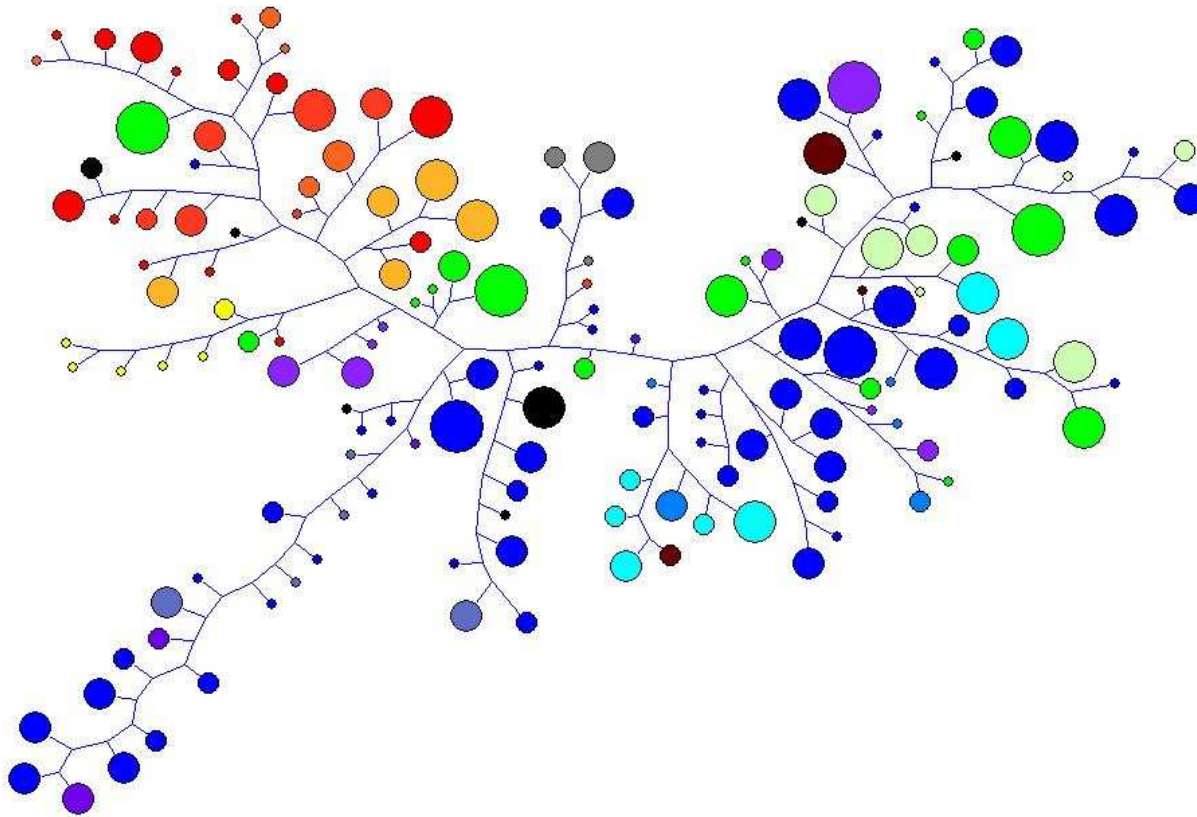
Languages in Debian (relative)

# Some examples (work in progress)



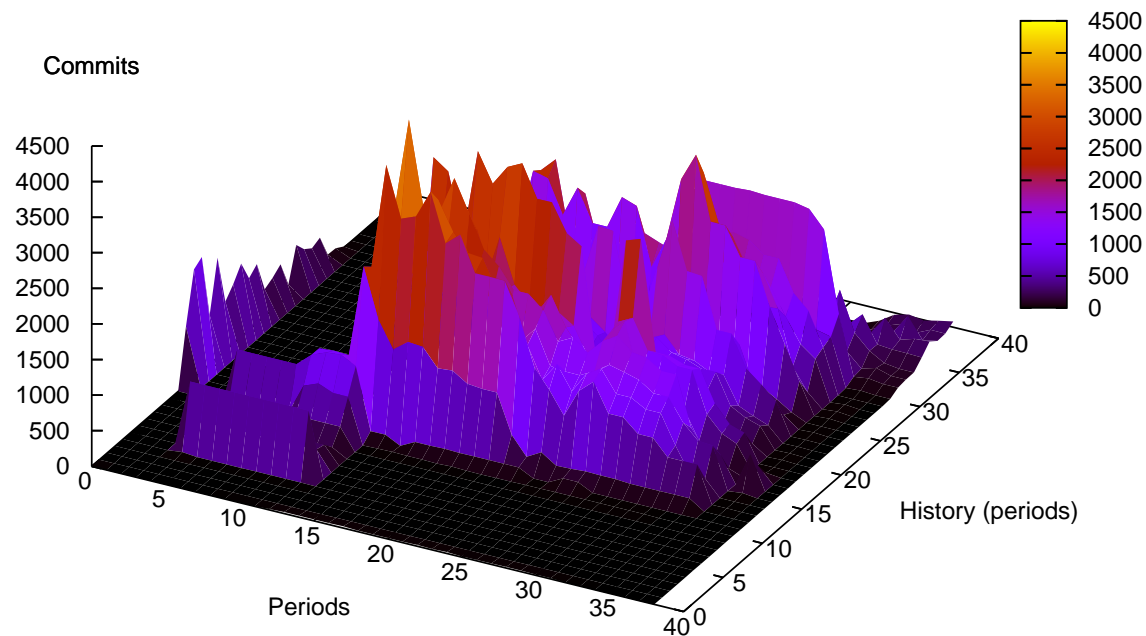
Growth of the Linux kernel

## Some examples (work in progress)



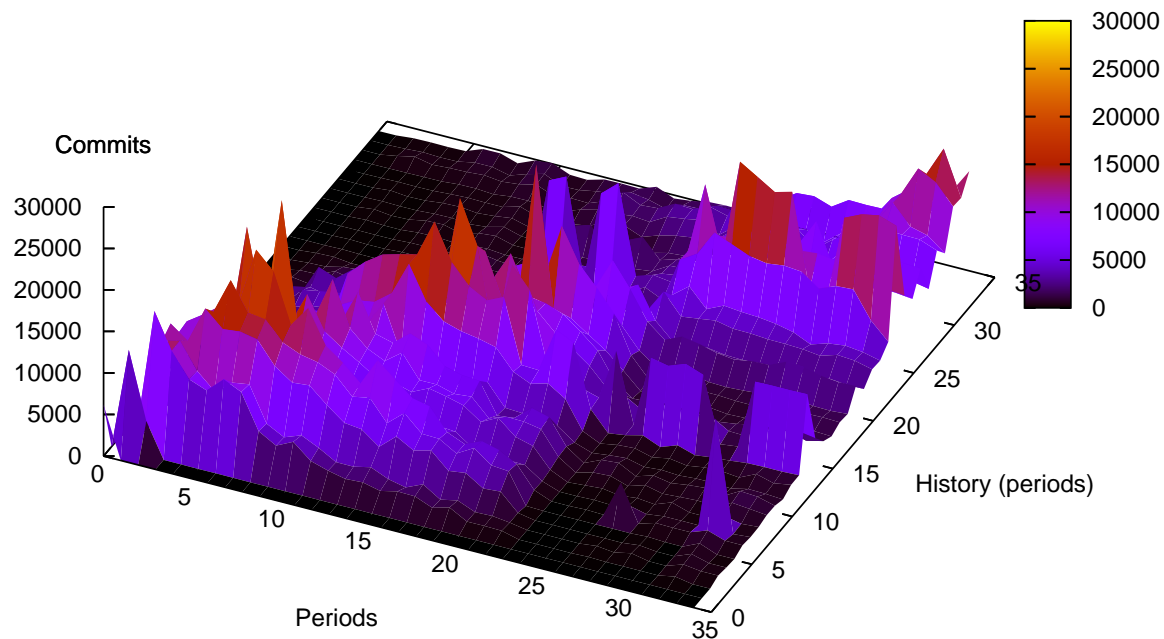
Communities in the Apache project (circa 2004)

## Some examples (work in progress)



Activity of core teams over time (Evolution)

## Some examples (work in progress)



Activity of core teams over time (Mozilla)

## Interested?

- Detailed description of work available from the website
- Keep an eye on the website, first version of the system available around Summer
- Tell us about your pet project, we can analyze it
- Provide feedback about your interests, needs

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