

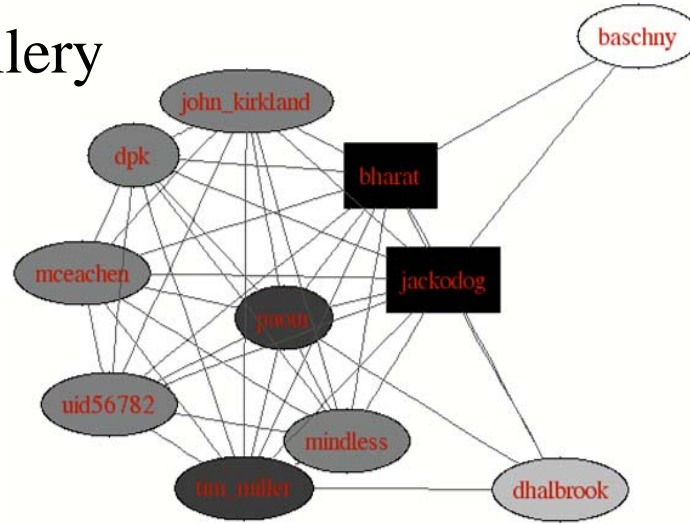
# ***Mining Version Histories to Verify the Learning Process of LPP***

- Mining the Boundary of Openness of an Open Source Software Project
- Explore if we can apply Open Source Development (OSD) Process to Proprietary Software
- Show the Boundary of Openness during OSD

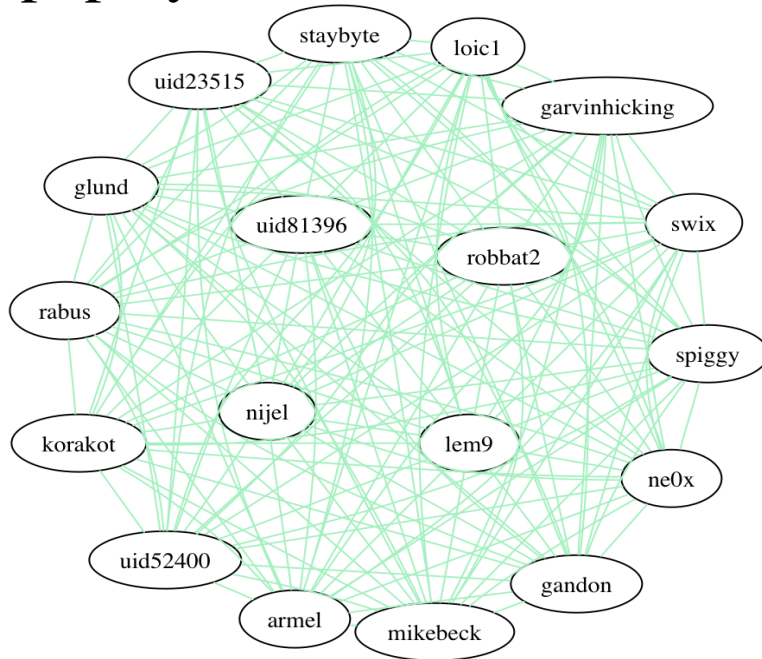
# Method

- Team Members
  - Core= Relatively Important Developers
  - NonCore = All – Core
- Source Code
  - Kernel = All – NonKernel
  - NonKernel = {d | d is touched by one of the NonCore}
- Project Characteristic function
  - $f(x) = \{y \mid y \text{ is the kernel ratio with respect to the core ratio of } x\}$
  - Kernel Ratio = (Kernel Size)/All
  - Core Ratio = (Core Team Size) / All

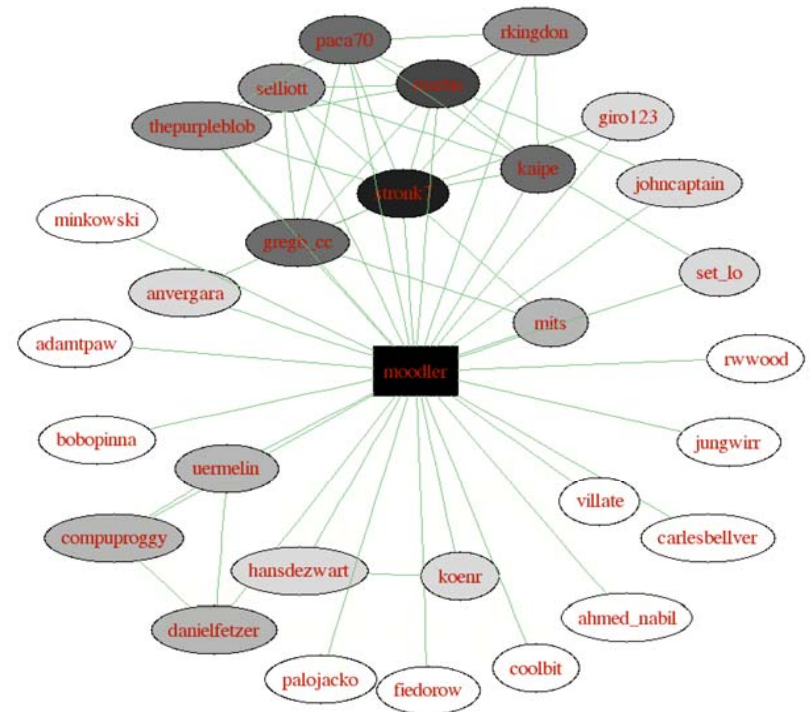
# gallery



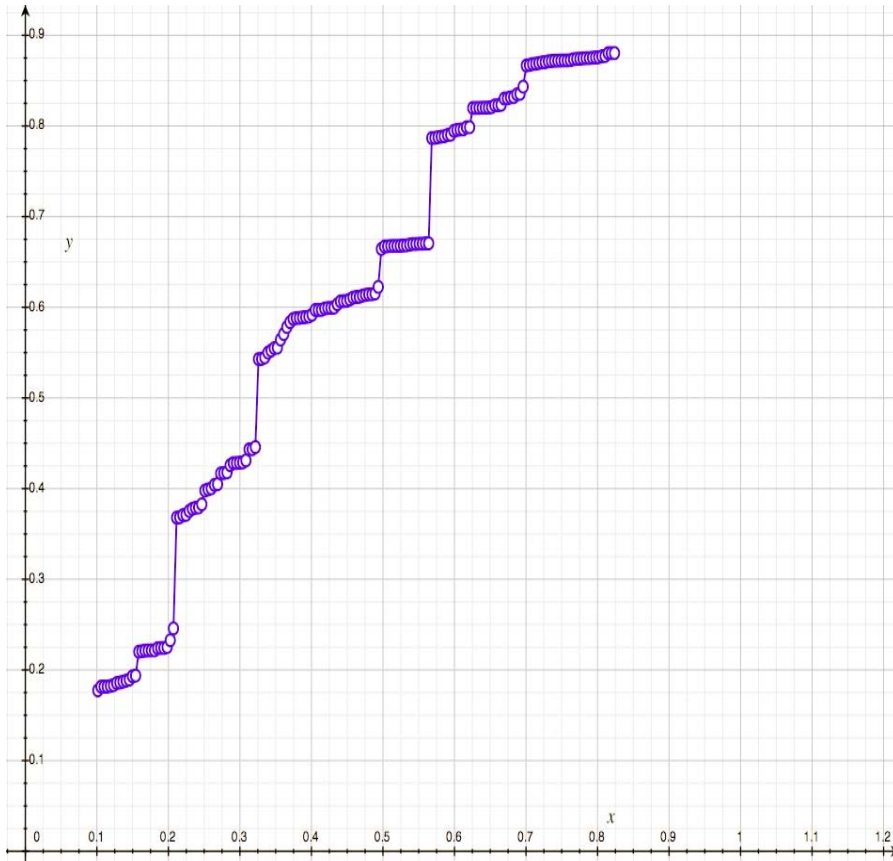
# phpmyadmin



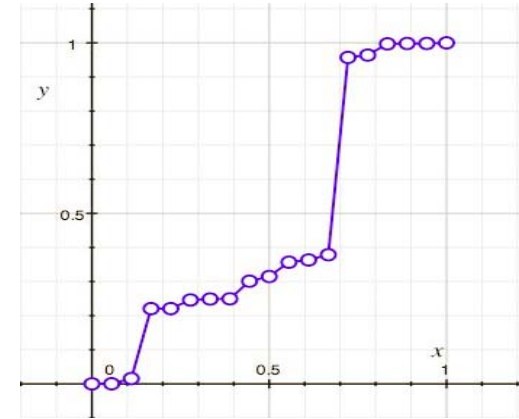
# moodle



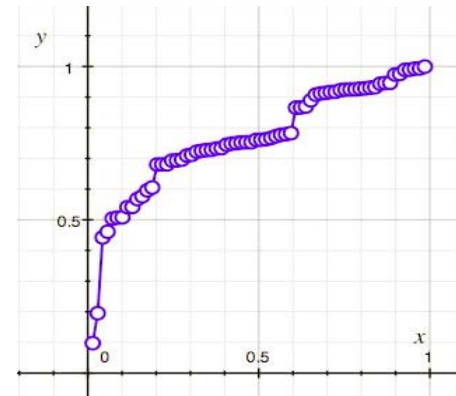
# GCC



# Slashcode



# Pugs



# Conclusions

- Obtain the characteristic function of each project team
  - Reveal different team constitutions with varied involvement in the software
- An Implication to develop a hybrid software process model to embed OSD into commercial software.
  - OpenDarwin: Mac OS X
  - Helix: Real Network Server