

Research Community

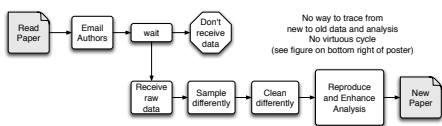
Those researching free and open source software and its development, from Software Engineering, Management, Organizational Studies, Economics and Sociology.

This community is interested in questions like:

- How do projects coordinate and make decisions?
- How does software 'evolve' over time?
- How is software complexity managed?
- What is the social structure of the projects?
- How are people socialized into these communities?
- How do the projects change their practices over time?
- Can open source practices be used in other online collaboration communities?

Currently there is **deduplicated collection and analysis effort** and **low replicability** which is hampering the community's ability to building each others work and therefore progress the field.

Without Collaboratory



Data on Open Source

Project "Demographics"

Project Address: [SourceForge / Github / Source Jit](#)
 Developer(s): 10
 Developer Role(s): 1st User/Contributor, Sponsor/Project Lead
 Licensed Software: 1st User/Contributor, Sponsor/Project Lead
 License: 2010 Creative Commons
 Operating System: OS X
 Programming Language: C, Objective C
 Topic: Web/Internet, Networking
 Translations: English
 User Interface: Core Java/J2SE
 Source: [SourceForge](#), [Github](#), [Source Jit](#)
 Project/URL name: 1038466
 Registered: 2002-09-21 02:20
 Adult Products (not used): 0/0/0
 View project details on SourceForge

Email lists

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Bug Trackers

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Code repository logs (CVS)

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FLOSSmole
 Spiders & repositories (incl Sourceforge, ObjectWeb, Savannah).
 Data on 130K projects and 250K developers
 180G + 15G Month

Notre Dame Dumps
 Sourceforge backend db dumps
 Includes all Trackers and Forums
 140G + 10G month

CVSAnalY
 CVS logs for 30K projects 25 Million atomic commits
 10G raw, 3G db

Surveys

Interviews & Transcripts

Observation Journals

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Content Analysis Schema

Coded Text

Category	Value
Project	1038466
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Topic	Web/Internet, Networking
Translations	English
UI	Core Java/J2SE
Source	SourceForge, Github, Source Jit
Name	1038466
Registered	2002-09-21 02:20
Adult Products	0/0/0

Building a collaboratory for research on open source software development

floss.syr.edu

ossmole.wiki.sourceforge.net

Advice Wanted :)

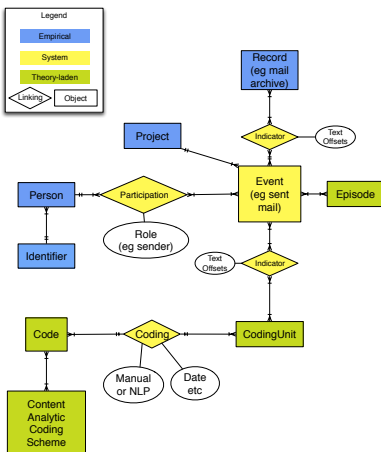
1. data models
2. workflow tools
3. community building

FLOSSmole++ project:

Megan Conklin (Elon University)
 Kevin Crowston (Syracuse University)

Poster presented by James Howison,
 PhD Candidate, Syracuse University
 School of Information Studies
 NSF CRI grant #0708767 and #0708767

Possible Data Model



The goal is to share:

Data and Data formats

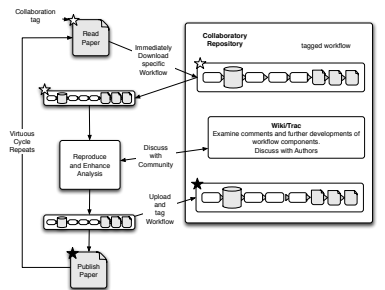
Data annotations

Research Workflows

Algorithms for calculating metrics (eg effectiveness, implicit roles)

Make it possible to discover publications from data, and data from publications

Workflows



What workflow tools?
 How to represent? How to share, How to create (GUI tools?), How to annotate?