

# **ResearchFriendly.org**

**Community meets research**

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# Let's introduce Sally



- If you're a FLOSS developer:
  - You get a request to answer a research survey (too) many times a year (No, for the tenth time: I won't go out with you!)
  - Your servers get overloaded by mining researchers (Can't you leave us alone and stop bothering?)
  - You don't understand the aims/output of the research community (They're always just thinking in football and beer!)
  - ...

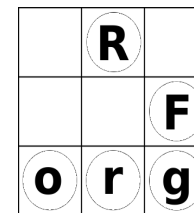
# Let's talk about Harry



- If you're a researcher:
  - You want your surveys filled out (if possible by a large population) (Developers are really difficult to understand!)
  - You want access to the data of the project (I want to know you better!)
  - You want feedback and comments on your research (Did you like it?)
  - ...

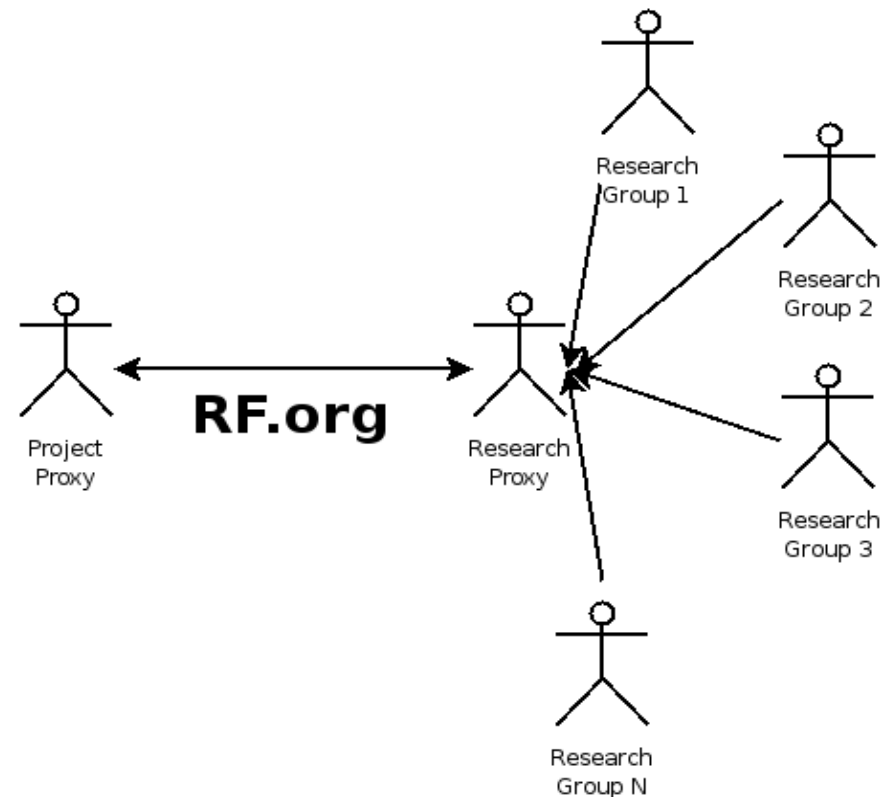
# Harry meets Sally: RF.org

- We need **bridges** between the FLOSS community and FLOSS researchers
- We need to build **win-win** situations
  - You don't bug me that often with surveys
  - I get my data for research
- We have to create **trust**
  - It's not only about data
  - It's not only about surveys
- Yes, this has to be a love story!

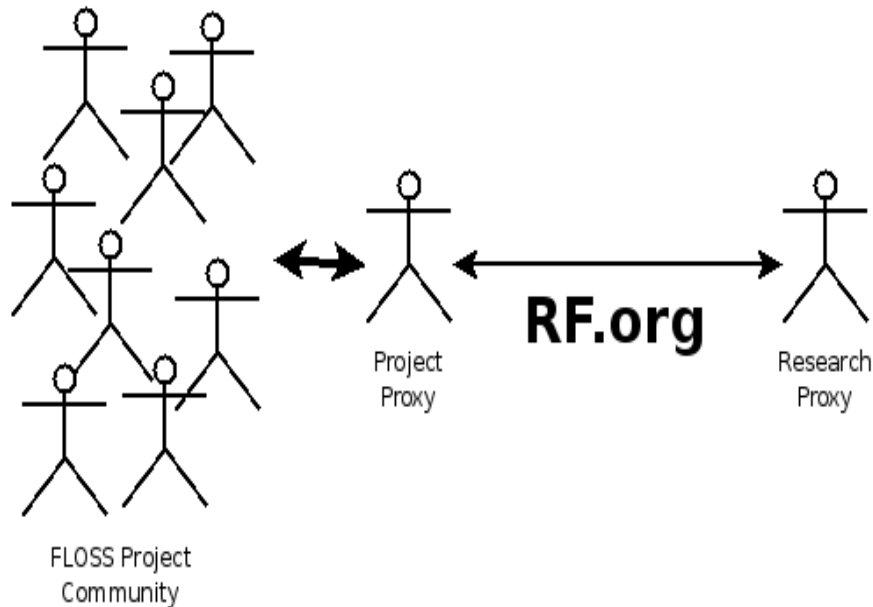


# RF.org: The research view

- 'Official'/periodic surveys
- Request for data
- Request for feedback
- Other types of collaboration (voluntary basis)



# RF.org: the community view



- Only one research actor
- All 'trouble' is redirected there
- Research community gives comprehensive feedback

# Benefits of RF.org - Research

- Case I: Surveys
  - Call for surveys (with deadline)
    - Once every 6?, 9?, 12? months
  - Some weeks of discussion
  - On-line survey available
  - Promoted by the project (high response rate!)
  - Survey data publicly available
    - Privacy preservation
  - Future surveys may be different (continuous, with developer tracking...)

# Benefits of RF.org - Research

- Case II: Validation of a supporting tool:

- Developer volunteering for it
- Requires trust, comprehension...

The screenshot shows the Eclipse IDE with the following components:

- Package Explorer:** Shows the project structure with annotations for risk levels: "low risk" and "high risk".
- Code Editor:** Displays the source code for `StandardSourcePathProvider.java`. A callout box labeled "(1) Risk annotations" points to the code.
- Risky Locations:** A table showing the risk scores for various elements in the code.
- Risk History:** A table showing the history of fixes and their impact on risk.
- Callouts:** "(2) Most risky locations" points to the `resolveClasspath` method. "(3) Risk history browser" points to the `Risk History` view. "Identified fixes and fix-inducing changes" points to the `allow a launch configuration classpath to be 'default plus'` comment.

Element	Risk
resolveClasspath	0.8888
run	0.8182
initializeProviders	0.7777
abort	0.7272
dispose	
init	
translate	
cleanup	0.5000
launch	0.4545

Bug	Fix	Revision	Date	Author	Comment
		1.15	1/13/05 10:27 PM	darin	Bug 62769 - StandardSourcePathProvider and dealing with RuntimeClasspathEntry.OTHER entries
		1.12	4/7/04 9:01 PM	darin	Bug 29890 - Debug Platform Source Lookup Facilities
		1.10	1/29/04 9:38 PM	darin	Bug 34287 - allow a launch configuration classpath to be 'default plus'
		1.8	10/23/03 3:48 AM	darin	Fallback fix for bug 44677
		1.7	10/22/03 9:18 PM	Ibourlier	Bug 44677 - Wrong JDK source lookup if Compile-JDK <> Debug-JDK



# Some Issues

- Governance and coordination mechanisms
- Coordination of data retrieval activities
  - mirroring, intermediate databases
- Discussion forum about privacy issues
  - ethical and practical guidelines
- Resources
  - Technical (not so much a problem... yet)
  - Human (web site, mirroring tasks, etc.)

# Approaching other researchers

- We (URJC) are trying to contact as many research institutions as possible to set up a working group
  - Web site
  - Mailing list(s)
  - Wiki
- Other groups may join in the future anytime
- Should be an open, self-organized group

# Approaching the Community

- (a) Contact as many projects as possible
- (b) Start with a small number of them
  - Which will serve as an example (aka looking for the “I’ll have what she’s having”)



# The End (- a happy ending?)

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Thanks for your attention and interest!

More information will be available at  
<http://researchfriendly.org>