

Collaborative Research: Making Software Engineering Work for Computational Science & Engineering: An Integrated Approach

Jeffrey Carver and George Thiruvathukal

carver@cs.ua.edu, gkt@cs.luc.edu

SE-CSE Workshops <http://SE4Science.org>

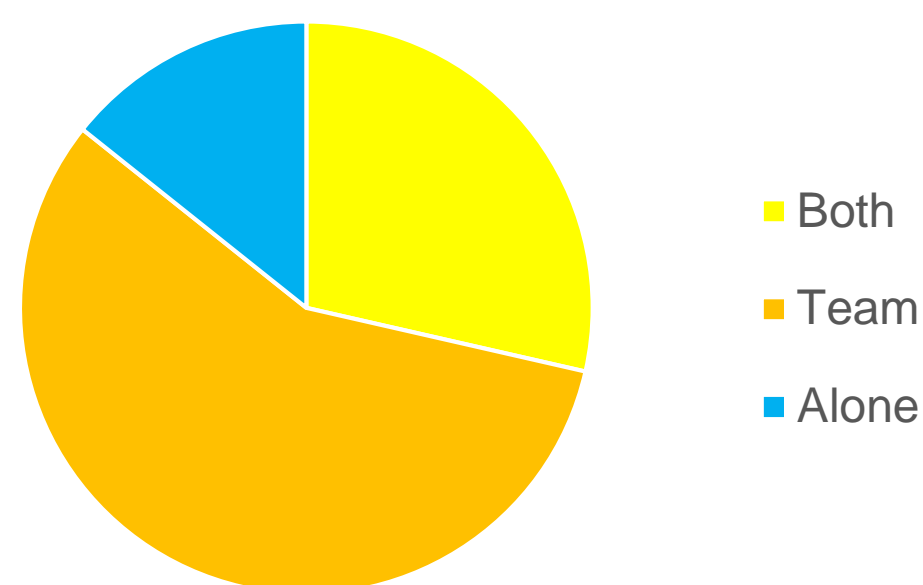


Software Engineers and Scientists
Held at ICSE, SC, ICCS
Facilitate Discussion and Collaboration

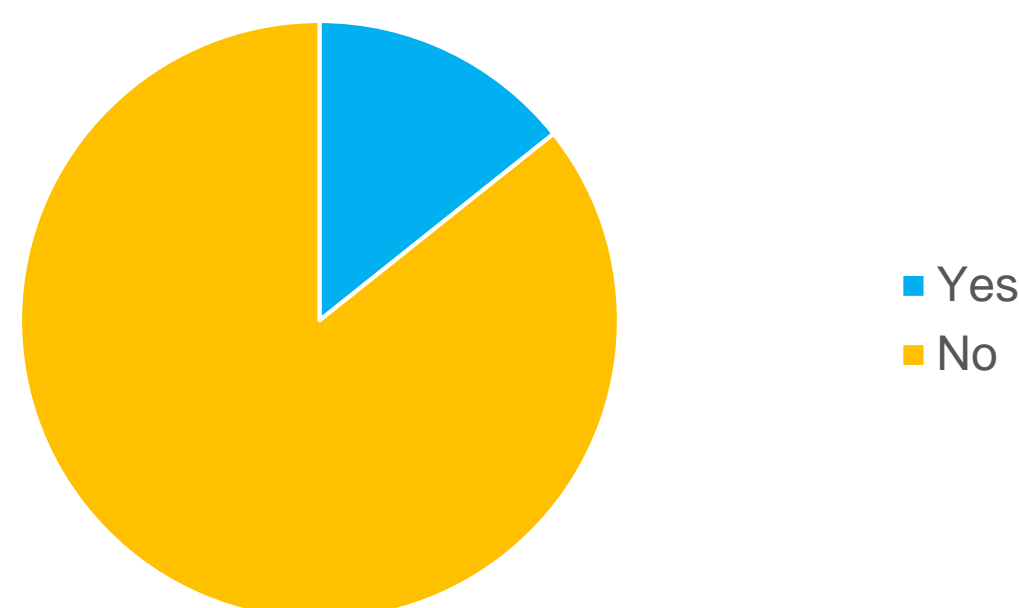
Recent/future workshops partially supported by this grant

Upcoming: *ICSE (Florence)*
SC'15 [Proposed]

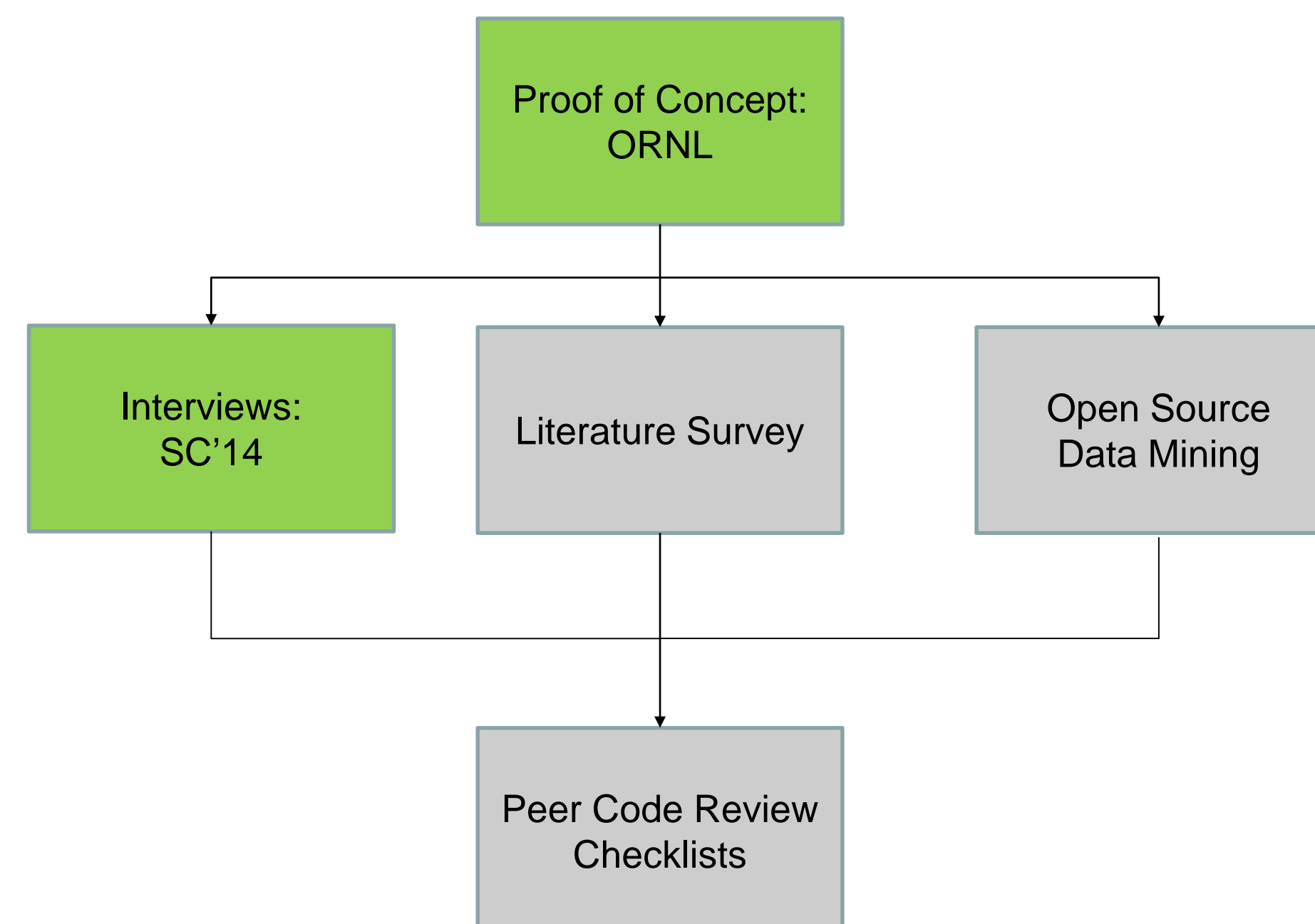
Do You Develop Code Alone Or In A Team?



Do You Perform Peer Code Reviews?



Peer Code Review



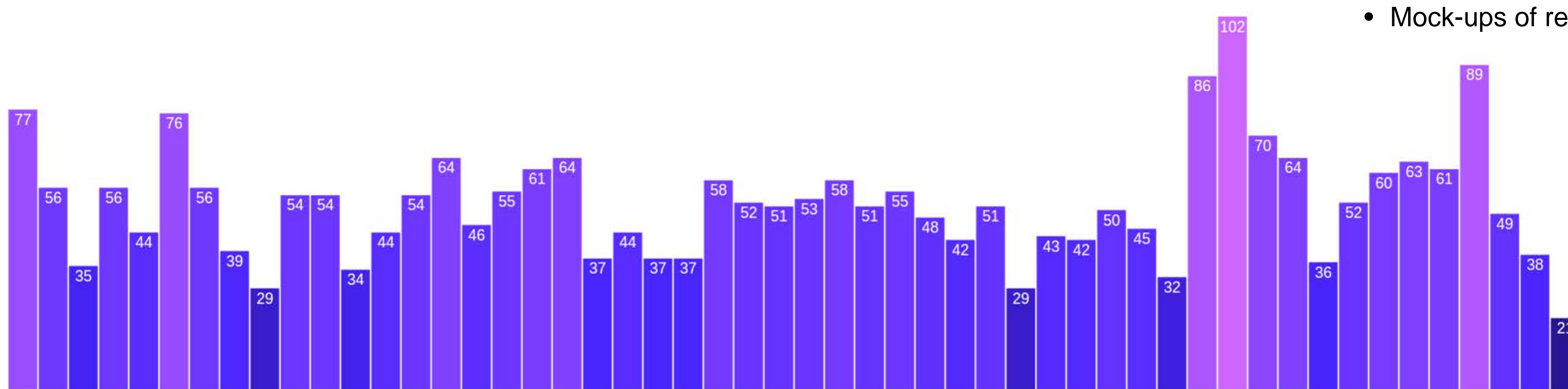
Reasons for Not Using Code Review

- Too much work
- One-off projects – quality less important
- Small team size

Metrics Survey & Dashboard

Last year of commit activity data - django/django - v2

Total Commits per week - SVG



Status of Dashboard

- Full ingestion service for git
- Distributed processing using AWS (NSF Chameleon Cloud underway)
- Mock-ups of reports