INVESTIGATION OF CULTURAL DIFFERENCES BETWEEN RUST AND GO PROGRAMMING COMMUNITIES

Leon M. Busch-George



SCOPE/BACKGROUND

- overall goal: improved ability to reason about programmer behavior
- not immediately related to software quality
- explorative study
- small-scale



RESEARCH GOAL

Find systematic differences concerning the culture of communities that are relevant to software development using voluntary expression of culture.



RESEARCH APPROACH

THE PLAN

- acquire data like software development artificats and public communication to develop base hypotheses
- 2. revise hypotheses using interviews
- 3. reflect on methods and findings
- 4. rinse and repeat



CULTURE?

- behavior, rituals
- values, beliefs
- interpersonal nature

.. emerges from ambiguous of difficult situations



CULTURE AND SE?

'wicked problems'

- elusive, interdependent requirements
- unclear success state
- ..

collaboration

- agree on compromises
- convey meaning to other programmers
- ..



HOW TO START LOOKING FOR CULTURE? (THE BAD)

- analysis of code solving similar problems
- let developers find and explain differences in code



HOW TO START LOOKING FOR CULTURE? (THE BETTER)

- public discussions
- publications from language authorities
- teaching material
- conferences and talks



RUST AND GO - SAFETY

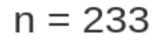
- both aim to supersede C++
- similar goals
- similar choices
- different approaches

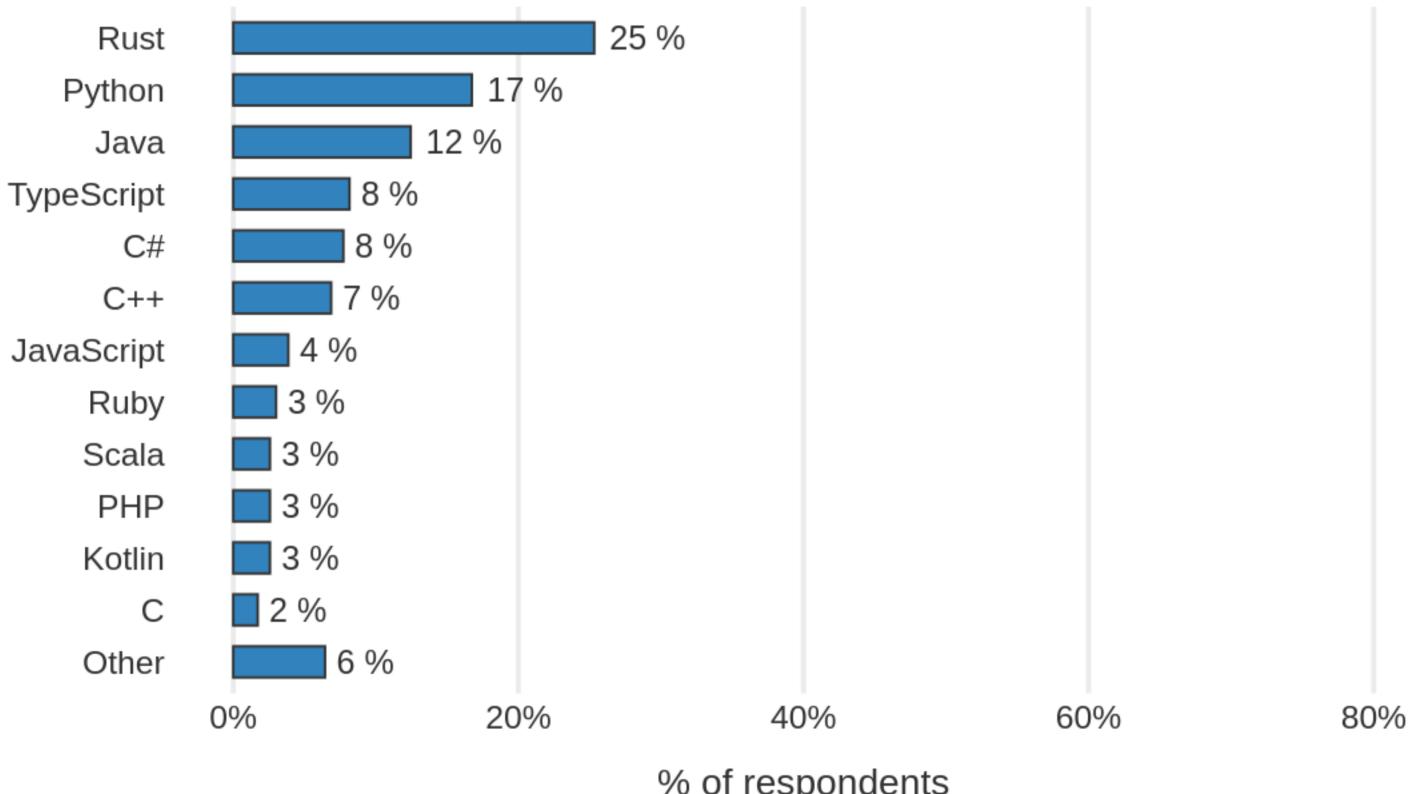
Simplicity, safety, and readability are paramount. (Go)

Safety in the systems space is Rust's raison d'être (Rust)



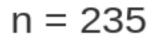
What language did you use instead of Go for this project?

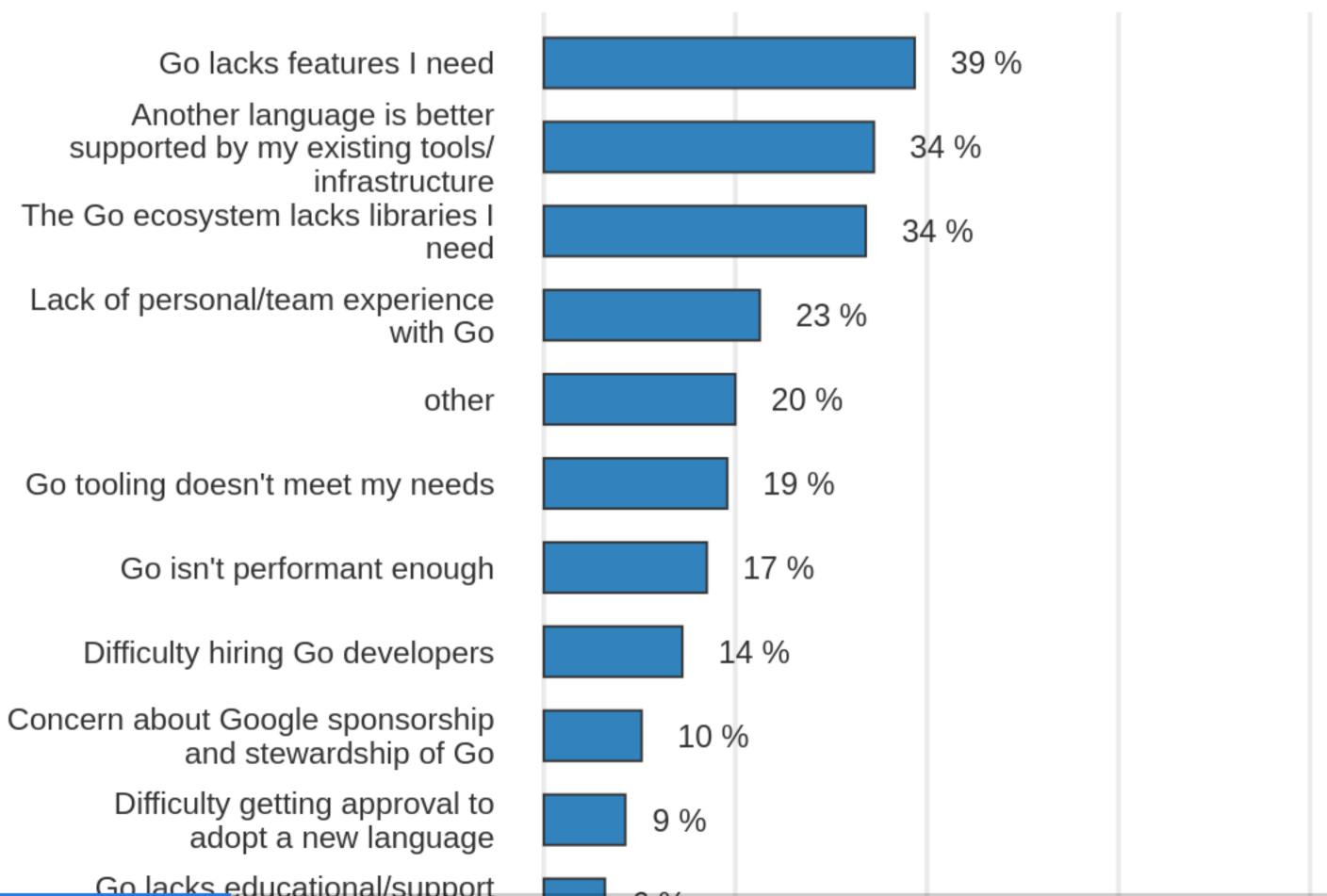




% of respondents

When evaluating Go for the project, which of the following prevented you from adopting Go? (select all that apply)?





IDENTITY

- Go and Rust programmers identify with their platform's values
- all said they were either Go/Rust progammers
- but
 - All Rust programmers said they were Rustaceans
 - Go programmers wouldn't say they were Gophers
- Go programmers avoided answering a question about their liking of the community



INTERVIEW SHORTAGE

- too few candidates
- setting up interviews took very long
- -> i was waiting for interviews a lot

the time was used for literature research and finding more base data.



CLOSING REMARKS

- list of more differences, ideas, comments, and approaches in the thesis paper
- balancing of open-ended and purposive questions is difficult
- same for selection and the arrangment interviews
 - underestimated organisation effort for finding a date
 - might have overthought the selection process
- get help from sociology and psychology!

leon@georgemail.de

