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Empirical Analysis Of Programming Language

Empirical Analysis of Programming
Language Adoption Leo A. Meyerovich
UC Berkeley lmeyerov@eecs.berkeley.edu
Ariel Rabkin Princeton University
asrabkin@cs.princeton.edu Abstract Some
programming languages become widely
popular while others fail to grow beyond
their niche or disappear alto-gether. This
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Empirical Analysis of Programming Language Adoption

Empirical analysis of programming language adoption. Pages 1 – 18.

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ABSTRACT. Some programming languages become widely popular while others fail to grow beyond their niche or disappear altogether. This paper uses survey methodology to identify the factors that lead to language adoption.

Empirical analysis of programming language adoption ...

First, language adoption follows a power law; a small number of languages account for most language use, but the programming market supports many languages with niche user bases. Second, intrinsic features have only secondary

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Language Adoption

Adoption methodology to identify Empirical Analysis of Programming Language Adoption We report several prominent findings. First, language adoption follows a power law; a small number of languages account for most language use, but the programming market supports many Page 7/30

Empirical Analysis Of Programming Language Adoption

Results -- The implementation programming language of software projects seems to affect productivity. The comparison between the productivity level of each of the analysed programming languages shows important differences with the results by Capers Jones and Delorey et al.

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An empirical study on the effect of programming languages ...

An Empirical Analysis of the Utilization of Multiple Programming Languages in Open Source Projects Philip Mayer
Programming & Software Engineering Group Ludwig-Maximilians-Universität München Germany

mayer@pst.lmu.de Alexander Bauer
Statistical Consulting Unit Ludwig-Maximilians-Universität München Germany

bauer.alexander@campus.lmu.de

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We followed a rigorous statistical analysis approach. Moreover, we compared our analysis with the productivity data provided by Capers Jones in 1996 and 2013 and with an investigation on open-source software by Delorey et al. Results: The implementation programming language of software projects seems to affect productivity.

An empirical study on the effect of programming languages ...
Empirical Analysis of Programming Language Adoption. OOPSLA '13. 2013.
The following text is copied and slightly modified from the paper. Some programming languages become widely popular while others fail to grow beyond their niche or disappear altogether. This paper uses survey methodology to identify the factors that lead to language adoption.

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Empirical analysis of programming language adoption . By Leo A.

Meyerovich and Ariel Rabkin. Abstract.

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their niche or disappear altogether. This ...

Empirical analysis of programming language adoption ...

Empirical Analysis of Programming Language Adoption I bumped into a paper "Empirical Analysis of Programming Language Adoption" that I thought might be of interest to others since we'd like to increase Pharo's mindshare .

This volume studies programmers to gain insights to facilitate improved productivity and quality software. The chapters cover a range of topics including cognitive models of programming; measuring program complexity; the effects of program style and structure on program comprehension, production and maintenance;

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documentation; the effects of control structures and data structures on program comprehension, production and maintenance; evaluations of program design and construction methodologies; teaching strategies; and assessment of programmer abilities.

This volume looks at the obvious trend in the computing evolution from studies of student programmers and toward studies of real programmers performing real programming tasks. The percentage of student and professional programmers in the studies reported in papers presented at ESP 1 and ESP 5 has nearly flip-flopped. There is now an emphasis on the practical application of the research results both in industry and in academia. The papers and posters of this workshop include a range of programming language paradigms beyond the procedural paradigm: functional, logic,

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visual, object oriented and concurrent programming. This appears to be an indication of the maturation of the field. No longer is it a question of whether to study programmers, but more a question of which aspects of the programming that make it an important area of study.

This volume contains the papers presented at the second workshop on Empirical Studies of Programmers. They represent a variety of approaches and topics covering the research in this area. All the chapters present research that bears on programmers. Together with the first volume edited by Elliot Soloway and Sitharama Iyengar, these chapters contribute to a growing knowledge base about how programmers go about their task and how they progress from novice to expert levels.

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Offers information on past and future conferences of the Empirical Studies of Programmers (ESP), provided by the ESP Design Team at the University of Nebraska at Lincoln. Includes indexes of papers and lists of participants, as well as photographs. Links to related sites.

Redundancies in program source code - software clones - are a common phenomenon. Although it is often claimed that software clones decrease the maintainability of software systems and need to be managed, research in the last couple of years showed that not all clones can be considered harmful. A sophisticated assessment of the relevance of software clones and a cost-benefit analysis of clone management is needed to gain a better understanding of cloning and whether it is truly a harmful phenomenon. This thesis introduces techniques to model, analyze,

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and evaluate versatile aspects of software clone evolution within the history of a system. We present a mapping of non-identical clones across multiple versions of a system, that avoids possible ambiguities of previous approaches. Though processing more data to determine the context of each clone to avoid an ambiguous mapping, the approach is shown to be efficient and applicable to large systems for a retrospective analysis of software clone evolution. The approach has been used in several studies to gain insights into the phenomenon of cloning in open-source as well as industrial software systems. Our results show that non-identical clones require more attention regarding clone management compared to identical clones as they are the dominating clone type for the main share of our subject systems. Using the evolution model to investigate costs and benefits of

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refactorings that remove clones, we conclude that clone removals could not reduce maintenance costs for most systems under study.

Empirical research has now become an essential component of software engineering yet software practitioners and researchers often lack an understanding of how the empirical procedures and practices are applied in the field. Empirical Research in Software Engineering: Concepts, Analysis, and Applications shows how to implement empirical research processes, procedures, and practices in software engineering. Written by a leading researcher in empirical software engineering, the book describes the necessary steps to perform replicated and empirical research. It explains how to plan and design experiments, conduct systematic reviews and case studies, and

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analyze the results produced by the empirical studies. The book balances empirical research concepts with exercises, examples, and real-life case studies, making it suitable for a course on empirical software engineering. The author discusses the process of developing predictive models, such as defect prediction and change prediction, on data collected from source code repositories. She also covers the application of machine learning techniques in empirical software engineering, includes guidelines for publishing and reporting results, and presents popular software tools for carrying out empirical studies.

Developing secure software requires the integration of numerous methods and tools into the development process, and software design is based on shared expert knowledge, claims, and opinions.

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Empirical methods, including data analytics, allow extracting knowledge and insights from the data that organizations collect from their processes and tools, and from the opinions of the experts who practice these processes and methods. This book introduces the reader to the fundamentals of empirical research methods, and demonstrates how these methods can be used to hone a secure software development lifecycle based on empirical data and published best practices.

The increased availability and quality of open source software on the Web is creating more opportunities for developers to reuse software and is changing the way developers write source code. It is important to understand how developers look for source code on the Web so that tools and approaches can be suggested to

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language Adoption' needs. Based on different approaches to understand how humans look for information, we propose a five-stage model to differentiate the stages that could take place when developers look for source code on the Web. We use this model to assess the effectiveness of existing tools.

This is an authoritative introduction to Computing Education research written by over 50 leading researchers from academia and the industry.

This work brings together papers written by researchers and practitioners actively working in the field of human-computer interaction. It should be of use to students who study information technology and computer sciences, and to professional designers who are interested in User Interface design.

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