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Empirical Analysis Of Programming Language

Empirical Analysis of Programming Language Adoption
Leo A. Meyerovich
UC Berkeley

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Imeyerov@eecs.berkeley.edu Ariel

Rabkin Princeton University

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Some programming languages become widely popular while others fail to grow beyond their niche or disappear altogether. This paper uses survey methodology to identify

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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 languages with niche user bases. Second, intrinsic features have only

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secondary importance in adoption.

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Empirical analysis of programming language adoption. In Proceedings of the 2013 ACM SIGPLAN international conference on Object oriented programming systems languages &

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applications (OOPSLA '13).

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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

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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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Language Adoption. Leo Meyerovich has some hard data on the factors that affect programming language adoption, in a paper in the upcoming OOPSLA 2013. For anyone interested in programming languages, the entire paper is worth reading. Some points that jumped out at me:

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Vivek Haldar — Empirical Analysis of Programming Language...

An Empirical Investigation into Programming Language Syntax 19:3 to prepare students for industry, which also overwhelmingly uses general-purpose programming languages, evaluating the impact of syntax on novices seems reasonable.

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An Empirical Investigation into Programming Language Syntax

Empirical research is required to determine the mental representations constructed during program comprehension to inform the development of programming languages, instructional practices, and...

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An Empirical Comparison of Seven Programming Languages

An Empirical Study of Programming
Language Trends Article (PDF Available)
in IEEE Software 22(3):72- 79 · June
2005 with 1,724 Reads How we measure
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Programming Language Trends

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.ifi.lmu.de
Alexander Bauer Statistical Consulting

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An Empirical Analysis of the Utilization of Multiple ...

Empirical research on program comprehension has a direct impact on the development of programming languages and tools. Boshernitsan et al. (2007) developed iXj, a tool that uses a

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visual language to allow programmers to specify and execute code changes.

Systematic literature review of empirical studies on ...

We report several prominent findings. First, language adoption follows a power law; a small number of languages account for most language use, but the

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programming market supports many languages with niche user bases. Second, intrinsic features have only secondary importance in adoption.

Empirical analysis of programming language adoption | ACM ...

The comparison between the productivity level of each of the

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analysed programming languages shows important differences with the results by Capers Jones and Delorey et al.

Conclusions --This paper provides some more evidence about how each programming language has its own productivity level and highlights some interesting divergences with the results reported by Capers Jones and Delorey et

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

Empirical Analysis of Programming
Language Adoption . By Leo A.
Meyerovich and Ariel S. Rabkin.

Abstract. Some programming languages
become widely popular while others fail

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to grow beyond their niche or disappear altogether. This paper uses survey methodology to identify the factors that lead to language adoption. We analyze large datasets ...

Empirical Analysis of Programming Language Adoption - CORE

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programming language adoption
CiteSeerX - Document Details (Isaac
Councill, Lee Giles, Pradeep Teregowda):
Some programming languages become
widely popular while others fail to grow
beyond their niche or disappear
altogether.

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1. EMPIRICAL ANALYSIS OF
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Leo A. Meyerovich, UC Berkeley Ariel S.
Rabkin, Princeton October, 2013 2. Why
Adoption? 2 3. Confession of a Language
Salesman [P. Coburn] Change Function
threshold to adopt: perceived adoption
need perceived adoption pain > 1 FP!!!

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new language 3 4.

Empirical Analysis of Programming Language Adoption

An Empirical Comparison of Seven
Programming Languages W hen it comes
to the pros and cons of various
programming languages, programmers
and computer scien-tists alike usually

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hold strong opinions. By comparing several languages, I seek to provide some objective information about C, C++, Java, Perl, Python, REXX, and Tcl.

An empirical comparison of seven programming languages ...

Empirical Studies of Programming Knowledge. (1984) by Elliot Soloway,

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Kate Ehrlich Venue: ... The dimension analysis makes it easier to compare dissimilar interfaces or languages, and also helps to identify the relationship between support tools and programming languages: the support tools make it possible to use opportunistic planning with ...

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Empirical Studies of Programming Knowledge. (1984)

Open source libraries, existing code, and experience strongly influence developers when selecting a language for a project. Language features such as performance, reliability, and simple semantics do not. Third, developers will steadily learn and forget languages, and

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the overall number of languages developers are familiar with is independent of age.

Empirical analysis of programming language adoption - CORE

In computer science, empirical algorithmics (or experimental algorithmics) is the practice of using

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empirical methods to study the behavior of algorithms. The practice combines algorithm development and experimentation: algorithms are not just designed, but also implemented and tested in a variety of situations.

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