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# Dissection on Java Organs in GitHub Repositories

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**ABSTRACT** Organ transplantation has brought convenience for software reuse and evolution since it was proposed. However, studies about mature, high-quality organs are still insufficient. It is still unclear about the detailed characteristics of organs in open-source environment. In this paper, we look deep into organs obtained from software evolution processes of ten large-scale Java repositories hosted on GitHub, aiming at providing practical information for utilizing organs in open-source environment. We found that 1) commits use *add* as a keyword in their comments possess the most organs, occupying 38% of the total amount, but commits with the keyword *fix* possess the highest locating accuracy (about 57%); 2) developers prefer to add new classes when they bring new functionalities to the projects in that the proportion of *Class Level Organs* is 40%, more than *Statement Level Organs* and *Function Level Organs* (35% and 25%, respectively); 3) nearly 70% of the total amount are *cross-file organs* with the median of the number of files each organ spans reaching 3 and the average of this value being around 4; 4) a small number (0.55%) of organs are *multi-commit*; 5) more than 40% of code reuse in open-source software can be finished by organ transplantation. Based on our findings, we highlight implications for future studies and design the mode of using organs to conduct code reuse.

**INDEX TERMS** organ transplantation, code reuse, GitHub repository, commits, software evolution, code clone

## I. INTRODUCTION

Software reuse, which refers to creating software systems utilizing existing software rather than building them from scratch [1, 2], brings great convenience for software development and maintenance. Components, which are considered as the basic unit in software [3], have been studied well during the years and provided endorsement for reuse technologies [4, 5, 6] such as extending the functionality of a specific system using existing code.

For achieving the same goal, Mark Harman et al. [7] transplanted code from other systems and named these code Organ, referring to all code associated with the feature of interest. New ideas have been brought to reuse since then: organs may provide greater convenience than components since they are more flexible according to the definitions. If one programmer is interested with just an if conditional branch to guarantee the condition whereas the whole class is reused, it is then nothing to do with convenience and concision. Later on, Harman's study was extended by creating a tool named

*CodeCarbonCopy* (CCC) [8] and transplanting call graph and layout features [9]. Despite the satisfying results they got, their practices in this area are restricted to a small-scale and specific experimental context: donors of the experiments in [7] and [8] are all pre-prepared applications, leading to a small number of organs (5 and 7, respectively). Organ transplantation based on large-scale dataset was not involved in their experiments.

In our previous study [10], we made the first attempt to extract and transplant organs from open-source communities, aiming at remedying the problem of lacking of organs. We firstly proposed the idea that mining organs from the evolution process of open-source projects by concentrating on the contents of commits. We then put forward a strategy for transplantation and made some manual experiments in which satisfactory results were achieved. The main lack of this study was that we did not study organs comprehensively: we only considered potential organs in *adding commits* (i.e., commits with *add* as a keyword) and we also ignored some special cases

# Java By Dissection

**M Carnoy**



## **Java By Dissection:**

**Java by Dissection** Charlie McDowell,Ira Pohl,2006 This thorough introduction to the Java programming process features carefully developed working programs that clarify key features of the Java language Each chapter includes executable complete programs and full working explanations      **On to C** Charlie McDowell,2000-10 The Updated Edition includes a free On to C primer that will help readers transition from the Java language to the C language following the same by dissection method used in the book This book presents readers with a clear and thorough introduction to the programming process by carefully developing working Java programs using the method of dissection A dissection is similar to a structured walk through of the code with the intention of explaining newly encountered programming elements and idioms as found in working code to the reader Key ideas are reinforced throughout by use in different contexts It presents a thorough introduction to the programming process by carefully developing working programs to illuminate key features of the Java programming language This book is intended for novice programmers looking for a structured introduction to Java as well as experienced programmers who are looking to make a transition to Java Readers familiar with Ira Pohl s C by Dissection will be interested in this Java version ISBN 0 201 72596 7 MAINCAT Programming Languages SUBCAT Java DATA1 2001 600 pages 7 1 4 x 9 1 8 DATA2 Paper 68 00k      Java by Dissection Ira Pohl,2003-11-06 Enlisting the best selling by dissection method of instruction this book teaches programming techniques and presents the Java language in a sound and structured manner that is appropriate for both novice and seasoned programmers It presents a thorough introduction to the programming process by carefully developing working programs to illuminate key features of the Java programming language Program code is explained in an easy to follow manner throughout This book presents readers with a clear and thorough introduction to the programming process by carefully developing working Java programs using the method of dissection A dissection is similar to a structured walk through of the code with the intention of explaining to the reader newly encountered programming elements and idioms as found in working code Key ideas are reinforced throughout by use in different contexts      **Java by Dissection:The Essentials of Java Programming with Experiments in Java:An Introductory Lab Manual** Pohl,Rebelsky,2004-08-23 Multi pack contains 0201751585 Java by Dissection 0201612674 Experiments in Java      Java by Dissection Essen& Rebate Card Pkg ANONIMO,2005-01-01      **Journal of Object-oriented Programming** ,2001      **Information Security** George I. Davida,Yair Frankel,2003-06-30 The Information Security Conference 2001 brought together individuals involved in multiple disciplines of information security to foster the exchange of ideas The conference an outgrowth of the Information Security Workshop ISW series was held in M laga Spain on October 1 3 2001 Previous workshops were ISW 97 at Ishikawa Japan ISW 99 at Kuala Lumpur Malaysia and ISW 2000 at Wollongong Australia The General Co chairs Javier L pez and Eiji Okamoto oversaw the local organization registration and performed many other tasks Many individuals deserve thanks for their contribution to the success of the conference Jos M Troya was the

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