

Practical Use of Encapsulation in Object-Oriented Programming

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Abstract

Even though an OO program may have a high degree of encapsulation it is still sometimes possible to modify the inner representation of compound objects. In for example Java there is little to prevent references exported from a compound object to be used by its receivers. Thus it may be possible to change the states of inner objects of a compound object from the outside leading to invariants may be broken. This is often referred to as the representation exposure problem and many solutions to this problem have been proposed. There is, however, a lack of empirical evidence that this is actually a practical problem in the software industry.

In this paper we report our findings from interviews conducted among software engineers on their view on encapsulation and information hiding issues, representation exposure, their use of OO programming languages, their way of working and their opinions on tools and techniques supporting encapsulation, information hiding and representation exposure.

Keywords: object-orientation, empirical, encapsulation, representation exposure, programming

1 Introduction

In object-oriented programming the concept of encapsulation is used to create abstract datatypes that should be possible to modify only through their external interface. This helps to create programs that are easier to maintain, debug and reason about [2]. One way to somewhat control encapsulation is to declare variables with different access modifiers, such as private or public. However, when using private variables in programming languages with reference semantics, such as e.g. Java, it is only the names of the variables that are protected and not the actual objects

pointed to by the variables. Since references to objects can be returned from method calls it is possible for an object that is external to e.g. a compound object to obtain references to objects held in the private variables of the compound object. By invoking methods directly on such a received reference, invariants of the compound object that are preserved by the interface methods may be broken. This may lead to inconsistencies in the system or to a system crash [9, 12]. This problem is sometimes referred to as the representation exposure problem [16] and many proposals have been presented addressing this problem, both at the design level and at the programming language level [8, 1, 12, 7, 10, 15, 18, 19, 17].

There is, however, a lack of empirical data on how widespread this problem actually is in the software industry and its effect on software quality.

In this paper we report our finding from structured interviews conducted among software engineers on their view on encapsulation and information hiding issues, the representation exposure problem, their use of object-oriented programming languages, their way of working and their opinions on tools and techniques supporting object-oriented development with respect to encapsulation and representation exposure.

Section 2 presents related empirical studies that have been conducted regarding the use of encapsulation in object-oriented programming languages. In Section 3 the interview method used is detailed. The analysis of the interviews is reported in Section 4 and Section 5 concludes.

2 Motivation and Related Work

The use of encapsulation and information hiding is emphasized in the object-oriented literature because it is said to cut development time, improve the quality of the software produced and facilitate maintenance [21]. For example, in The Code Conventions for the Java

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