A cool title

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Title that Describes the Contribution that Solves a Problem O. Thor C. O. Ottohr October 7, 2014

Abstract

In this context... We consider this problem P... P is a problem because... We propose this solution... Our solution solves P in such and such way.

1 Introduction

Quiero tener reglas de reescritura, para poder transformar código, por ejemplo para hacer refactors, para tener buscadores de más alto nivel, browsear código más fácil simplificar todas esas tareas dejar una API que permita hacerlo programáticamente

here you want to show that you are not an idiot not knowing what have been around

hay una herramienta desarrollada, tiene algunos problemas, hay un blog sobre el tema.

una forma sencilla de definir búsquedas y transformaciones programáticamente búsqueda y transformación basados en ejemplos (utilizando una herramienta visual para manipular los ejemplos

2 Problem Description

Context, exposed with the **most precise terms possible** (don't open unwanted doors for the reader)

Probably set the vocabulary before to cut any misinterpretation

Constraints that influenced the solution (because the solution is not universal) *e.g.* our requirements for a solution, possibly not all satisfied. They should be sound and believable. Analysis of the criteria. Imagine that you are another guy having this problem do the constraint matches yours so that you could apply the solution

no hay una forma fácil de hacer transformaciones y búsquedas genéricas orientadas a un ejémplo

The idea is very simple: We want to change some code in a programmatic way In order to do this, first we want to match the code we want and then change it.

Many times we want to match an expression having different information: about the selector, about the source code (temporary vars, statements).

Some examples: all the methods with 2 arguments, all methods called in a particular way, a method containing a specific statement, The first conclusion is that we want a flexible way for matching.

In order to do transformations sometimes we want to refer to the existing code, sometimes this expressions are very complex. My goal for this time is to develop tools to make simple writing searching patterns and easier writing transformations. Here I will write about my GSoc project: Better rewriting rule tools implemented in Pharo Smalltalk, about the experience and progress.

3 Proposed Solution

Free form, variable number of sections, technical details.

But in general do not mix solution and discussions/possible variation let that for discussion

4 Discussion

Discussion of actual solution *vs.* initial constraints from 2. Explain the space of the solution, why we made it this way.

Evaluation of the solution. How does the solution meet the criteria? Where does it succeed or fails...

5 Related Works

Cosas que se podrían leer: Unterholzner [2] propone otra estrategia para mejorar los refactorings, agregando static type inference.

Uquillas Gómez *et al.,* [**?**]

Bergel *et al.,* [1]

Eelco Visser, A survey of strategies in rule-based program transformation systems, Journal of Symbolic Computation, 2005, 40, 1, 831

6 Conclusion

In this paper, we looked at problem P with this context and these constraints. We proposed solution S. It has such good points and such not so good ones. Now we could do this or that.

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References

[1] A. Bergel, S. Ducasse, C. Putney, and R. Wuyts. Creating sophisticated development tools with OmniBrowser. *Journal of Computer Languages, Systems and Structures*, 34(2-3):109–129, 2008.

[2] M. Unterholzner. Refactoring support for Small-talk using static type inference. In *Proceedings of the International Workshop on Smalltalk Technologies*, IWST '12, pages 1:1–1:18, New York, NY, USA, 2012. ACM.