

# Refactoring-Aware Code Review: A Brief "Case History"

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Q2 2019

## 1 SELECTION OF CODE REVIEW REPOSITORY

Code review tool	Repository selected	Project selected
Gerrit <sup>1</sup>	Eclipse <sup>2</sup>	tracecompass/org.eclipse.tracecompass

<sup>1</sup> Changes are classified in open, merged, or abandoned.

<sup>2</sup> <https://git.eclipse.org/r>

## 2 *RefactoringMiner* EXECUTION

Project selected	#Commits	#Refactorings
tracecompass/org.eclipse.tracecompass	7,225	12,717

## 3 SELECTION OF INSTANCES

Group	Description
A	commit message with refactoring information
B	commit message with no refactoring information

Table 3.1: Groups definition

## Dúvidas

O que seria exatamente poor *versus* rich message?

Group	URL	#Refactorings <sup>3</sup>	#Patch Sets
A	<a href="https://git.eclipse.org/r/#/c/99698/">https://git.eclipse.org/r/#/c/99698/</a>	3	19
	<a href="https://git.eclipse.org/r/#/c/122968/">https://git.eclipse.org/r/#/c/122968/</a>	32	5
	<a href="https://git.eclipse.org/r/#/c/122045/">https://git.eclipse.org/r/#/c/122045/</a>	72	9
B	<a href="https://git.eclipse.org/r/#/c/140712/">https://git.eclipse.org/r/#/c/140712/</a>	1	2
	<a href="https://git.eclipse.org/r/#/c/104124/">https://git.eclipse.org/r/#/c/104124/</a>	27	47
	<a href="https://git.eclipse.org/r/#/c/126405/">https://git.eclipse.org/r/#/c/126405/</a>	23	51
	<a href="https://git.eclipse.org/r/#/c/134350/">https://git.eclipse.org/r/#/c/134350/</a>	48	19
	<a href="https://git.eclipse.org/r/#/c/123949/">https://git.eclipse.org/r/#/c/123949/</a>	56	2

<sup>3</sup> Number of refactorings detected by *RefactoringMiner*. Thus, we selected only *Merged* changes from Gerrit.

Table 3.2: Instances selected

URL	#Refactorings	Refactoring Type
<a href="https://git.eclipse.org/r/#/c/99698/">https://git.eclipse.org/r/#/c/99698/</a>	2 1	Rename Attribute Extract Variable
<a href="https://git.eclipse.org/r/#/c/122968/">https://git.eclipse.org/r/#/c/122968/</a>	31 1	Move Class Extract Variable
<a href="https://git.eclipse.org/r/#/c/122045/">https://git.eclipse.org/r/#/c/122045/</a>	72	Move Class
<a href="https://git.eclipse.org/r/#/c/140712/">https://git.eclipse.org/r/#/c/140712/</a>	1	Extract and Move Method
<a href="https://git.eclipse.org/r/#/c/104124/">https://git.eclipse.org/r/#/c/104124/</a>	9 2 1 1 2 1 1 6 3 1	Rename Variable Rename Method Extract Method Inline Variable Rename Parameter Rename Attribute Extract Class Move Attribute Extract and Move Method Move Method
<a href="https://git.eclipse.org/r/#/c/126405/">https://git.eclipse.org/r/#/c/126405/</a>	2 5 1 1 3 6 5	Extract Variable Rename Variable Extract Method Rename Parameter Extract Subclass Push Down Method Push Down Attribute
<a href="https://git.eclipse.org/r/#/c/134350/">https://git.eclipse.org/r/#/c/134350/</a>	34 4 5 5	Extract Method Rename Variable Rename Parameter Extract and Move Method
<a href="https://git.eclipse.org/r/#/c/123949/">https://git.eclipse.org/r/#/c/123949/</a>	2 3 30 1 3 17	Rename Class Extract Method Rename Variable Merge Variable Rename Method Rename Attribute

Table 3.3: Refactorings detected by *RefactoringMiner* per instance