Mass refactoring

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0.1 Context

0.2 Learned in this study

0.3 Things to explore

- How to properly build a PR since refactoring can have a major impact on the code?
- What are the reasons against code refactoring?
  - Applying refactoring that go against the developers coding guidelines
- Is it possible for two automated agents (a refactorer and a verifier) to exchange refactoring changes without the need for human intervention?

1 Overview

2 Procedure

- Scan github.com for a list of projects in your target language, possibly starting with the most popular projects
- Automatically clone many projects to one or many machines
- Apply all refactoring supported by your refactoring tools
- Create a commit per semantic change
- Create a commit with all the changes
- Obtain the amount of code added/removed and compute how much impact the refactoring would have on the project
- Automatically submit a pull request to the projects, indicating the refactoring that was applied

3 See also

4 References