

Exit Survey – Participant 43

Please fill out this survey regarding the experiment.

| | | | | |
|---|--|--------------------------|--------------------------|--------------------------|
| 1. For each of the following questions about the experiment, please specify whether you: fully agree, partially agree, partially disagree, or fully disagree. | | | | |
| | | Fully agree | | Fully disagree |
| A | I had enough time to finish my task. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| B | It was easy to test the given class. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| C | I have produced a good test suite. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| D | I am certain I have found all bugs. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| E | The class under test was easy to understand. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. For each of the following questions about test generation, please specify whether you fully agree, partially agree, partially disagree, or fully disagree. | | | | |
| | | Fully agree | | Fully disagree |
| A | It is easier to test with generated tests than having to manually write tests. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| B | It is easier to confirm suggested assertions than to manually add them to generated tests. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| C | Generated unit tests are difficult to read and understand. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| D | Generated unit tests are too long to understand. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| E | Generated unit tests are too short to exercise useful behaviour. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| F | Automated test generation does not provide enough tests. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| G | Automatically generated unit tests only exercise the “easy” parts of the program. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| H | Automated test generation selects the right assertions. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I | Automated test generation selects too many assertions. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| J | Adding assertions to generated unit tests is prohibitively difficult. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| K | Performance is a prime concern when using automated test generation. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| L | Difficulty in understanding generated unit tests depends on the complexity of the tested class, not the actual tests. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

3. In what respect would the test generator need to be improved such that you would consider using it in practice? For each of the following aspects, please rank whether they are:

- irrelevant,
- nice to have, but not important,
- important.

| | Irrelevant | Nice to have | Important |
|---------------------------------|--------------------------|--------------------------|--------------------------|
| A Performance. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| B Coverage..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| C Readability..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| D Better assertions..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| E Complex behaviour..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| F Documentation / comments..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| G User interface..... | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| G More tests. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

4. Do you have any suggestions on improving the readability of generated unit tests?

5. Do you have any suggestions on making unit test generation more usable?
