

# Exit Survey – Participant 29

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. |  |                          |                          |                          |
|   |  | <b>Fully agree</b>       |                          | <b>Fully disagree</b>    |
| 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. |  |                          |                          |                          |
|   |  | <b>Fully agree</b>       |                          | <b>Fully disagree</b>    |
| 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?

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

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