

USER STUDY QUESTIONNAIRE

In the questionnaire, we refer to as CE1 (Coding Environment 1) the first coding environment used by the participants (Eclipse or VISUFLOW). CE2 refers to the other coding environment. All questions except Q41 were mandatory.

Q1: How long have you been writing static code analysis?

- Type: Single-answer question.
- Possible choices: [< 1 years; 1-2 years; 2-5 years; 5-10 years; > 10 years]

Q2: Which coding environment do you primarily use (name of the IDE or text editor)?

- Type: Free-text field.

Q3: How familiar are you with Eclipse?

- Type: Scale 0 (Never heard of) to 10 (Expert).

Q4: How familiar are you with data-flow analysis?

- Type: Scale 0 (Never heard of) to 10 (Expert).

Q5: How familiar are you with Soot?

- Type: Scale 0 (Never heard of) to 10 (Expert).

Q6: If I had to do the task frequently, I think that I would use CE1 frequently.

- Type: Scale 1 (Strongly disagree) to 5 (Strongly agree).

Q7: I found CE1 unnecessarily complex.

- Type: Scale 1 (Strongly disagree) to 5 (Strongly agree).

Q8: I found CE1 easy to use.

- Type: Scale 1 (Strongly disagree) to 5 (Strongly agree).

Q9: I would need the support of a technical person to use CE1.

- Type: Scale 1 (Strongly disagree) to 5 (Strongly agree).

Q10: I found the various functions of CE1 well integrated.

- Type: Scale 1 (Strongly disagree) to 5 (Strongly agree).

Q11: I thought there was too much inconsistency in CE1.

- Type: Scale 1 (Strongly disagree) to 5 (Strongly agree).

Q12: I would imagine that most people would learn to use CE1 very quickly.

- Type: Scale 1 (Strongly disagree) to 5 (Strongly agree).

Q13: I found CE1 very cumbersome to use.

- Type: Scale 1 (Strongly disagree) to 5 (Strongly agree).

Q14: I felt confident using CE1.

- Type: Scale 1 (Strongly disagree) to 5 (Strongly agree).

Q15: I needed to learn a lot of things before I could get going with CE1.

- Type: Scale 1 (Strongly disagree) to 5 (Strongly agree).

Q16 - Q25: Same questions as Q6 - Q15, for CE2.

Q26: In general, errors were easier to understand with:

- Type: Single-answer question.
- Possible choices: [CE1; CE2; Neutral]

Q27: In general, errors were easier to fix with:

- Type: Single-answer question.
- Possible choices: [CE1; CE2; Neutral]

Q28: I fixed more errors with:

- Type: Single-answer question.
- Possible choices: [CE1; CE2; Neutral]

Q29: I fixed errors faster with:

- Type: Single-answer question.

- Possible choices: [CE1; CE2; Neutral]

Q30: In general, I had a better grasp on the analysis code with:

- Type: Single-answer question.
- Possible choices: [CE1; CE2; Neutral]

Q31: In general, I had a better grasp on the application code with:

- Type: Single-answer question.
- Possible choices: [CE1; CE2; Neutral]

Q32: How much would you recommend CE1 over CE2 to a friend for the type of task you performed?

- Type: Scale 0 (Not at all) to 10 (Go for it!).

Q33: How much would you recommend CE2 over CE1 to a friend for the type of task you performed?

- Type: Scale 0 (Not at all) to 10 (Go for it!).

Q34: How much would you recommend CE1 over your own coding environment to a friend for the type of task you performed?

- Type: Scale 0 (Not at all) to 10 (Go for it!).

Q35: How much would you recommend CE2 over your own coding environment to a friend for the type of task you performed?

- Type: Scale 0 (Not at all) to 10 (Go for it!).

Q36: Describe your coding environment when writing static analysis. What do you typically use (software, favourite features)?

- Type: Free-text field.

Q37: Which features of CE1 would you like to have in your current coding environment?

- Type: Free-text field.

Q38: Which features of CE2 would you like to have in your current coding environment?

- Type: Free-text field.

Q39: In your opinion, which task(s) would CE1 be best suited for?

- Type: Free-text field.

Q40: In your opinion, which task(s) would CE2 be best suited for?

- Type: Free-text field.

Q41: Would you change anything about the Coding Environments? Other comments?

- Type: Free-text field.