# Variability-Aware Smells Experiment Feedback

Thank you to participate of this study. At this moment, We want to know about your experiences and opinion about the six proposed Variability-Aware Smells, that is, smells that are defined by taking variability into account. In the following, we ask the same questions regarding experiences and consequences for each of these smells.

We confirm again that all information you provide by fulfilling this questionnaire will remain anonymous. Since we keep the data anonymous and we need to match your answers in the questionnaire to your answers in the experiment, you have to use a code word. It is imperative that you fill the code word as in the experiment at the beginning of this questionnaire.

Obrigado por participar deste estudo. Neste momento, queremos saber sobre suas experiências e opiniões sobre os seis Variability-Aware Smells propostos, ou seja, smells que são definidos no contexto de variabilidade. A seguir, fazemos as mesmas perguntas sobre experiências e conseqüências para cada um desses smells.

Novamente confirmamos que todas as informações que você fornecer ao preencher este questionário permanecerão anônimas. Uma vez que mantemos os dados anônimos e precisamos combinar suas respostas no questionário com suas respostas na experiência, você precisa usar uma palavra-chave (código). É imperativo que você preencha esta palavra-chave no inicio desse questionário.

\* Required

1. **Email address** \*

   _____

2. **Here, we explain how you generate this code word, which is also explained in the experiment. 1. First letter of name of your elementary school. 2. Second letter of your mother's first name. 3. Third letter of your father's first name. 4. Fourth letter of the month of your birthdate. 5. Second letter of your first name. 6. Third letter of your last name.** \*

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## Bad Mandatory Child-feature

3. **Have you observed Bad Mandatory Child-feature in the described way or similarly?** \*
   Mark only one oval.

   ◯ Yes

   ◯ No

4. **Make a comment about your choice on last question here:**

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   _____
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5. **How do you estimate the impact of Bad Mandatory Child-feature smell on the aspects, listed below?** \*
   Mark only one oval per row.

|  | Very problematic | Rather problematic | Don't know | Rather unproblematic | Unproblematic |
|---|---|---|---|---|---|
| Program Comprehesion | ◯ | ◯ | ◯ | ◯ | ◯ |
| Maintainability (e.g., error detection/removal) | ◯ | ◯ | ◯ | ◯ | ◯ |
| Evolvability (e.g., Change project) | ◯ | ◯ | ◯ | ◯ | ◯ |

## Poor Annotation Trace

6. **Have you observed Poor Annotation Trace in the described or a similar form?** *
   Mark only one oval.

   ◯ Yes
   ◯ No

7. **Make a comment about your choice on last question here:**

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8. **How do you estimate the impact of Poor Annotation Trace smell on the aspects listed below?** *
   Mark only one oval per row.

   |  | Very problematic | Rather problematic | Don't know | Rather unproblematic | Unproblematic |
   |---|---|---|---|---|---|
   | Program Comprehesion | ◯ | ◯ | ◯ | ◯ | ◯ |
   | Maintainability (e.g., error detection/removal) | ◯ | ◯ | ◯ | ◯ | ◯ |
   | Evolvability (e.g., Change project) | ◯ | ◯ | ◯ | ◯ | ◯ |

## Redundant Annotation

9. **Have you observed Redundant Annotation in the described or a similar form?** *
   Mark only one oval.

   ◯ Yes
   ◯ No

10. **Make a comment about your choice on last question here:**

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11. **How do you estimate the impact of Redundant Annotation smell on the aspects listed below?** *
    Mark only one oval per row.

    |  | Very problematic | Rather problematic | Don't know | Rather unproblematic | Unproblematic |
    |---|---|---|---|---|---|
    | Program Comprehesion | ◯ | ◯ | ◯ | ◯ | ◯ |
    | Maintainability (e.g., error detection/removal) | ◯ | ◯ | ◯ | ◯ | ◯ |
    | Evolvability (e.g., Change project) | ◯ | ◯ | ◯ | ◯ | ◯ |

## Conflicting Annotation

12. **Have you observed Conflicting Annotation in the described or a similar form?** *
    Você observou Conflicting Annotation na forma descrita no treinamento ou semelhante?
    Mark only one oval.

    ◯ Yes
    ◯ No

13. **Make a comment about your choice on last question here:**

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14. **How do you estimate the impact of Conflicting Annotation smell on the aspects listed below?** *
    Mark only one oval per row.

|  | Very problematic | Rather problematic | Don't know | Rather unproblematic | Unproblematic |
|---|---|---|---|---|---|
| Program Comprehesion | ◯ | ◯ | ◯ | ◯ | ◯ |
| Evolvability (e.g., Change project) | ◯ | ◯ | ◯ | ◯ | ◯ |

## Bad Annotation Name

15. **Have you ever observed Bad Annotation Name in the described or a similar form?** *
    Mark only one oval.

    ◯ Yes

    ◯ No

16. **Make a comment about your choice on last question here:**

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17. **How do you estimate the impact of Bad Annotation Name smell on the aspects listed below?** *
    Mark only one oval per row.

|  | Very problematic | Rather problematic | Don't know | Rather unproblematic | Unproblematic |
|---|---|---|---|---|---|
| Program Comprehesion | ◯ | ◯ | ◯ | ◯ | ◯ |
| Maintainability (e.g., error detection/removal) | ◯ | ◯ | ◯ | ◯ | ◯ |
| Evolvability (e.g., Change project) | ◯ | ◯ | ◯ | ◯ | ◯ |

## Lack of Annotation

18. **Have you ever observed Lack of Annotation in the described or a similar form?** *
    Mark only one oval.

    ◯ Yes

    ◯ No

19. **Make a comment about your choice on last question here:**

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20. **How do you estimate the impact of Lack of Annotation smell on the aspects listed below?** *

Mark only one oval per row.

| | Very problematic | Rather problematic | Don't know | Rather unproblematic | Unproblematic |
|---|---|---|---|---|---|
| Program Comprehesion | ◯ | ◯ | ◯ | ◯ | ◯ |
| Maintainability (e.g., error detection/removal) | ◯ | ◯ | ◯ | ◯ | ◯ |
| Evolvability (e.g., Change project) | ◯ | ◯ | ◯ | ◯ | ◯ |

## Opinion and Feeling

21. **What did you learn from this study?** *

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22. **Do you think the set of identified Variability-Aware Smells can guide refactoring procedures to improve Software Product Lines (Highly Configurable software) projects quality?**

Mark only one oval.

◯ Yes

◯ No

23. **Make a comment about your answer on last question:**

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24. **Give us your opinion about the proposed smells.** *

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25. **Give us your feeling about experiment activities.** *

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☐ Send me a copy of my responses.