

Projectional Workbench Survey

Response ID:47 Data

2. Your Usage of MPS

1. For how long have you been using MPS?

2. How many lines of codes have you roughly written with MPS?

3. How do you use MPS?

4. How intensively are you using MPS?

3. Language Design

How often you are designing/extending languages (e.g., daily, weekly, couple of times per month,...)?

Why are you designing or extending a language?

How would you describe your language extensions or your new language?

4. Your Previous Experience

5. For how many years have you been:

	<1 year	1-2 years	3-5 years	5-10 years	>10 years
programming					
programming professionally					

6. How familiar are you with the following programming paradigms?

	very unfamiliar	unfamiliar	neutral	familiar	very familiar
imperative programming					
object-oriented programming					
functional programming					
logic programming					

7. How familiar are you with the following programming languages?

	very unfamiliar	unfamiliar	neutral	familiar	very familiar
C					
C++					
Java					
C#					
Scala					

Other, please specify::

8. What were the domains of your recent development projects (not necessarily with MPS)?

Examples for domains: operating systems, databases, automotive,...

9. Do you have previous experience with non-projectional (conventional) IDEs? Please specify which:

10. Do you have any previous experience with MPS, before using mbeddr?

5. Model-Driven Software Development

11. How familiar are you with the following concepts known from model-driven software development (MDD/MDSD)?

	very unfamiliar	unfamiliar	neutral	familiar	very familiar
metamodel					
abstract syntax tree (AST)					
grammar					
domain-specific language (DSL)					
textual DSL					
graphical DSL					
model transformation (MT)					
model-to-text (M2T) transformation					
model-to-model (M2M) transformation					

12. Have you used or designed a domain-specific language (DSL) before using MPS?

If so, please specify::

6. Experience with MPS

13. I can work productively with MPS.

Please elaborate::

14. It was easy to learn and understand the facilities of MPS (as opposed to getting used to them).

Which facilities were easier and which were harder to learn?:

15. It was easy to get used to programming in MPS (as opposed to intellectually understanding it).

How long did it take to get used to MPS (approx. net time)?:

16. When writing code in MPS, I am as fast as with an ordinary editor.

Please elaborate::

17. With MPS, I make less errors while programming.

Please elaborate::

7. Detailed Personal Experience with MPS

18. I like that I can only produce structurally correct programs (valid ASTs).

Please elaborate::

19. I benefit from modular languages/language compositions in the domain-specific languages (DSLs) I use/engineer

Please elaborate::

20. I benefit from the flexible notations (symbols, tables, etc.) in the DSLs I use/engineer.

Please elaborate::

21. I like the advanced navigation support (e.g., node selection along AST, adjustable find-usages) of MPS.

Please elaborate::

22. I think I could do the same with my favorite "conventional" IDE.

Please elaborate::

23. Compared to your usual IDE, what are the advantages of MPS?

24. How familiar are you with the following underlying concepts of MPS?

	very unfamiliar	unfamiliar	neutral	familiar	very familiar
Mapping of AST nodes to features					
Transformation of the AST into a host language					
Adherence of different parts of the AST to different metamodels					
Visualization of the AST in the editor					

Please elaborate::

8. Advantages and Disadvantages Compared to Conventional IDEs

What do you think are the biggest advantages of MPS over your previous/usual IDE? Please elaborate.

What do you think are the biggest disadvantages of MPS over your previous/usual IDE? Please elaborate.

9. Improvements

In summary, what were the biggest issues you had with MPS?

Do you have any ideas or suggestions how to improve MPS?

Specifically, if you were working with mbeddr, do you have ideas to extend the languages you used? For example to increase language expressiveness or to improve your productivity.

10. About your Person

To set your responses into a broader context, we would appreciate if you could share some information about your person. All the information you provided in this questionnaire will be treated confidentially and we will not share any of your personal details.

11. Final Remarks

Do you have any final comments or remarks about this questionnaire or about the study?