

Entry Questionnaire

Team Programming Practices Questionnaire

The goal of this questionnaire is to survey the characteristics of software teams and the collaboration practices used by their members during programming. Consequently, if you are not a programmer or member of such a team this questionnaire is not for you.

Note that this questionnaire is meant to capture team-specific programming practices, so there are no right or wrong answers. However, we ask you to think and answer clearly to make your contribution most valuable.

Your answers will be processed confidentially by the researchers, and any public result will be anonymous. The questions marked with a red asterisk * are mandatory. Thank you.

Personal data

What is your first and last name? *

What is your email? *

Which of the following areas is more close to your university degree? *

- ☐ Electrical Engineering
- ☐ Computer Science or Engineering
- ☐ Mathematics
- ☐ Telecommunications
- ☐ I do not have an university degree
- ☐ Other:

Professional experience

What is your level of experience with these technologies? *

(Beginner – I know but have some difficulties; Intermediate – I know very well; Advanced – I know very well and use it daily; Expert – I am very proficient)

	None	Beginner	Intermediate	Advanced	Expert
Java	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IDEs (e.g., Eclipse)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Version control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Unit testing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How many experience years do you have programming in Java? *

(Sum all periods, consecutive or not, since you started your professional activity. Use decimal places to indicate fractions of time below one year.)

How many experience years do you have with version control? *

(Sum all periods, consecutive or not, since you started your professional activity. Use decimal places to indicate fractions of time below one year.)

How many experience years do you have programming in teams? *

(Sum all periods, consecutive or not, since you started your professional activity. Use decimal places to indicate fractions of time below one year.)

In which organization or company are you working now? *

Development tools

Which of the next software development tools do you use in your work? *

- ☐ C or C++
- ☐ C#
- ☐ Java
- ☐ ...
- ☐ Others:

Development methodology

Which of the following methodologies are you using in your work? *

- ☐ Waterfall
- ☐ Spiral
- ☐ Rational Unified Process
- ☐ SCRUM
- ☐ Kanban
- ☐ None of the above

If your methodology is none of the above then describe yours succinctly:

(Your answer is not required but it will be very appreciated.)

Is your programming oriented by automatic tests? *

(This practice is commonly known as Test-Driven Development, in which automatic tests are written before the code that must pass them.)

- ☐ Yes, I practice TDD
- ☐ I don't practice TDD, but I use automatic tests
- ☐ I neither practice TDD, nor use automatic tests

What is the frequency of the integration builds? *

- ☐ After every check-in
- ☐ Several times a day
- ☐ Once a day (e.g., at night)
- ☐ Once a week
- ☐ With less frequency

What is the frequency of the release builds? *

The work is decomposed in programming tasks that are typically planned to last ... *

- ☐ Less than 8 hours
- ☐ Less than 1 week
- ☐ Less than 2 weeks
- ☐ Less than 1 month
- ☐ More than 1 month

Do you usually switch between your programming tasks? *

(That is, you do a bit of one task, then do a bit of another, and so on.)

- ☐ Frequently
- ☐ Occasionally
- ☐ Rarely
- ☐ Never

Do you check in immediately into the repository of your team at the end of each programming task of yours? *

- ☐ Yes

- ☐ No

Characterization of your programming team

(Answer the following questions considering your current team, or the last one you participated in if you are not working in a team at the moment. Remember that your co-workers are only those that belong to your team.)

How much frequent do you program in a team? *

- ☐ Always
- ☐ Frequently
- ☐ Occasionally
- ☐ Rarely

How many programmers are there in your team? *

- ☐ 2–4
- ☐ 5–7
- ☐ 8–10
- ☐ +10
- ☐ +25
- ☐ +100

Is your team geographically distributed (spread across different buildings, cities, or countries)? *

- ☐ Yes
- ☐ No, but I have already participated in such a team
- ☐ I have never participated in such a team

Software integration practices when programming in a team

(Answer the following questions considering your current team, or the last one you participated in if you are not working in a team at the moment. Remember that your co-workers are only those that belong to your team.)

Do you test your code before checking into the repository of the version control system? *

- ☐ Always
- ☐ Frequently
- ☐ Occasionally
- ☐ Rarely
- ☐ Never

How frequently do you check in? *

- ☐ Several times a day
- ☐ Once a day
- ☐ Several times a week
- ☐ Once a week
- ☐ Not even once a week

How frequently are you aware of the check-ins of your co-workers? *

- ☐ Several times a day
- ☐ Once a day
- ☐ Several times a week
- ☐ Once a week
- ☐ Not even once a week

How do you become aware of the check-ins of your co-workers? *

- ☐ They tell me before they check in
- ☐ They tell me after they check in
- ☐ They tell me before or after they check in
- ☐ I discover by myself, sometimes several hours after they checked in
- ☐ There is a mechanism that notifies me when they check in
- ☐ Other:

Do you interrupt what you are doing to inspect the check-ins done by your co-workers? Why? *

How frequently do you update your working copy with the changes of your co-workers? *

- ☐ Every time I know they checked in
- ☐ Several times a day
- ☐ Once a day
- ☐ Several times a week
- ☐ Once a week
- ☐ Not even once a week

Tell us about your experience with merging. How frequent conflicts happen? What kinds of conflicts are they? Is merging easy? *

Does the integration build fail with frequency? What are the typical causes of its failures? *

What does the team do after the integration build fails? How much time does it typically take to resolve a failed integration build? *

Practices used to be aware of the state of development inside the team

(Answer the following questions considering your current team, or the last one you participated in if you are not working in a team at the moment. Remember that your co-workers are only those that belong to your team.)

Knowing how your co-workers are changing the code is important to you? Why, and when do you look to know it? *

Indicate the three means you use to know how your co-workers are changing the code? *

- ☐ I talk directly with them from my seat
- ☐ I walk to them and ask
- ☐ I find them by chance and take advantage to ask
- ☐ I hear them by chance talking about what they are doing
- ☐ I exchange email messages
- ☐ I exchange instant messages
- ☐ I see their changes after they check in
- ☐ I participate regularly in code reviews
- ☐ I participate regularly in other meetings
- ☐ I read state monitors
- ☐ I read problem reports

- ☐ I read the evolution of the project plan
- ☐ I read reports
- ☐ Other:

Which information regarding the activity of your team do you look for daily to accomplish your work? Why? *

What percentage of your daily time do you spend looking for information about your team? *

(Write a number between 0 and 100.)

Do you usually feel short of information relevant to your team work? What kind of information? *

Do you usually feel excess of information irrelevant to your team work? What kind of information? How much does it distract you? *

Conclusion of the questionnaire

Leave your opinion or suggestion to improve this questionnaire. Thank you.