

Extreme Programming

Marie Reitzer Mélissa Untz Quentin Loeb
Steve de Rose Mouhamadou Faye

Definition & Values

Definition¹

Extreme Programming (XP) is an agile software development framework that aims to produce higher quality software, and higher quality of life for the development team. XP is the most specific of the agile frameworks regarding appropriate engineering practices for software development.

Definition & Values

Definition¹

Extreme Programming (XP) is an agile software development framework that aims to produce higher quality software, and higher quality of life for the development team. XP is the most specific of the agile frameworks regarding appropriate engineering practices for software development.

Values²

XP is based on five core values:

- Communication

Definition & Values

Definition¹

Extreme Programming (XP) is an agile software development framework that aims to produce higher quality software, and higher quality of life for the development team. XP is the most specific of the agile frameworks regarding appropriate engineering practices for software development.

Values²

XP is based on five core values:

- Communication
- Simplicity

Definition & Values

Definition¹

Extreme Programming (XP) is an agile software development framework that aims to produce higher quality software, and higher quality of life for the development team. XP is the most specific of the agile frameworks regarding appropriate engineering practices for software development.

Values²

XP is based on five core values:

- Communication
- Simplicity
- Feedback

Definition & Values

Definition¹

Extreme Programming (XP) is an agile software development framework that aims to produce higher quality software, and higher quality of life for the development team. XP is the most specific of the agile frameworks regarding appropriate engineering practices for software development.

Values²

XP is based on five core values:

- Communication
- Simplicity
- Feedback
- Courage

Definition & Values

Definition¹

Extreme Programming (XP) is an agile software development framework that aims to produce higher quality software, and higher quality of life for the development team. XP is the most specific of the agile frameworks regarding appropriate engineering practices for software development.

Values²

XP is based on five core values:

- Communication
- Simplicity
- Feedback
- Courage
- Respect

Definition & Values

Definition¹

Extreme Programming (XP) is an agile software development framework that aims to produce higher quality software, and higher quality of life for the development team. XP is the most specific of the agile frameworks regarding appropriate engineering practices for software development.

Values²

XP is based on five core values:

- Communication
- Simplicity
- Feedback
- Courage
- Respect

Practices

Extreme programming has 12 practices, grouped into four areas.³

Fine-scale feedback

- Pair programming⁴
- Planning game
- Test-driven development
- Whole team

Practices

Extreme programming has 12 practices, grouped into four areas.³

Fine-scale feedback

- Pair programming⁴
- Planning game
- Test-driven development
- Whole team

Continuous process

- Continuous integration
- Refactoring or design improvement⁴
- Small releases

Practices

Extreme programming has 12 practices, grouped into four areas.³

Fine-scale feedback

- Pair programming⁴
- Planning game
- Test-driven development
- Whole team

Continuous process

- Continuous integration
- Refactoring or design improvement⁴
- Small releases

Shared understanding

- Coding standards
- Collective code ownership⁴
- Simple design⁴
- System metaphor

Practices

Extreme programming has 12 practices, grouped into four areas.³

Fine-scale feedback

- Pair programming⁴
- Planning game
- Test-driven development
- Whole team

Continuous process

- Continuous integration
- Refactoring or design improvement⁴
- Small releases

Shared understanding

- Coding standards
- Collective code ownership⁴
- Simple design⁴
- System metaphor

Programmer welfare

- Sustainable pace

Use GitHub for XP : Values

Communication

GitHub is a collective space. With the section "Projects", the contributors can plan project, sort tasks... For every change in a work, there is commit to explain to other co-workers what has been changed. There are also Issues. It works like a chat between the co-workers.

Use GitHub for XP : Values

Communication

GitHub is a collective space. With the section "Projects", the contributors can plan project, sort tasks... For every change in a work, there is commit to explain to other co-workers what has been changed. There are also Issues. It works like a chat between the co-workers.

Courage

With Github, every old version of a work is saved. The contributors can try major changes (like changing the architecture of the project, delete some code...) without being afraid of losing everything.

Simplicity

As every file and every program are saved on GitHub, their latest version are available for everyone at any moment, there's no difficulty to send informations or programs. Extreme programming involves a quick evolution of programs, so every contributor should be able to work on the latest versions.

Simplicity

As every file and every program are saved on GitHub, their latest version are available for everyone at any moment, there's no difficulty to send informations or programs. Extreme programming involves a quick evolution of programs, so every contributor should be able to work on the latest versions.

Feedback

The customer and the programmer are both contributors of the project on GitHub. The customer can get the latest version of the project at any moment, test this version, give feedback and ask for modifications through issues (and assign the person working on this part of the project to the issue).

Necessary conditions for success

Necessary conditions for success

- A client fully invested in the project
- Small teams (pairs)
- Infrastructure with open space³
- Easily and quickly accessible feedback
- Acceptance of change by all teams

Use GitHub for XP : Practices

Use GitHub for XP : Practices

GitHub has a lot of tools which can help for the different practices of XP.

- **Continous integration** : Work on a separated file, then add it to the project

Use GitHub for XP : Practices

Use GitHub for XP : Practices

GitHub has a lot of tools which can help for the different practices of XP.

- **Continous integration** : Work on a separated file, then add it to the project
- **Small releases** : Every time someone works on a programm, he can send his work easily thanks to commits.

Use GitHub for XP : Practices

Use GitHub for XP : Practices

GitHub has a lot of tools which can help for the different practices of XP.

- **Continous integration** : Work on a separated file, then add it to the project
- **Small releases** : Every time someone works on a programm, he can send his work easily thanks to commits.
- **Refactoring** : You can see all the changes for every commit, so you can easily try to change some code and cancel if needed
- **Collective code ownership** : Latest versions are available for each contributor on GitHub. All files are in the same repository, and everyone can work with them.

Use GitHub for XP : Practices

Use GitHub for XP : Practices

GitHub has a lot of tools which can help for the different practices of XP.

- **Continous integration** : Work on a separated file, then add it to the project
- **Small releases** : Every time someone works on a programm, he can send his work easily thanks to commits.
- **Refactoring** : You can see all the changes for every commit, so you can easily try to change some code and cancel if needed
- **Collective code ownership** : Latest versions are available for each contributor on GitHub. All files are in the same repository, and everyone can work with them.
- **Pair programming** : Issues are a good way for two people to communicate on the project

1. Alliance A. What is Extreme Programming (XP)? URL:
<https://www.agilealliance.org/glossary/xp/>.
2. Galiana D. Qu'est-ce que la méthode eXtreme Programming ? URL:
<https://www.planzone.fr/blog/quest-ce-que-la-methodologie-extreme-programming>.
3. Wikipedia. Extreme programming. URL:
https://en.wikipedia.org/wiki/Extreme_programming.
4. Copeland L. Extreme Programming.
<https://www.computerworld.com/article/2585634/extreme-programming.html>.