various testing types does not add value to the readers. Hence, we will discuss the different development models.

Software Testing Methodologies: Learn QA Models

Software Testing Methodology is defined as strategies and testing types

used to certify that the Application Under Test meets client expectations.

Integration Testing, System Testing, Performance Testing etc. Each testing

methodology has a defined test objective, test strategy, and deliverables.

Test Methodologies include functional and non-functional testing to

validate the AUT. Examples of Testing Methodologies are Unit Testing,

**Note**: Since Software Testing is an integral part of any Development

Testing Methodologies colloquially. Hence Testing Methodologies could

What is Software Testing Methodology?

Live Projects ∨

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Methodology, many companies use the term Development Methodologies & also refer to Waterfall, Agile and other QA models as against the above definition of Testing Methodologies. Discussion on

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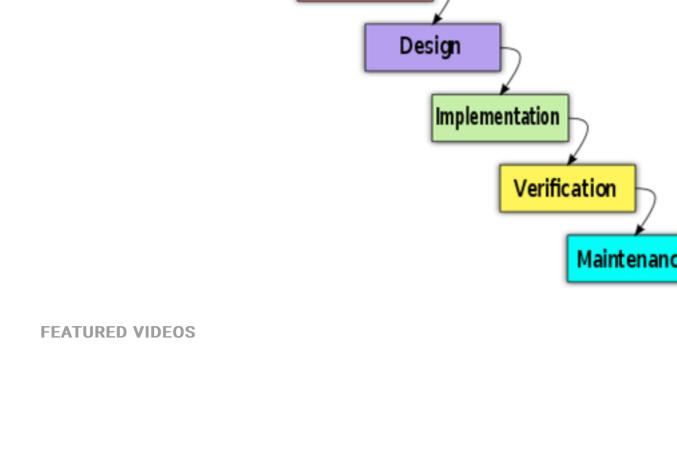
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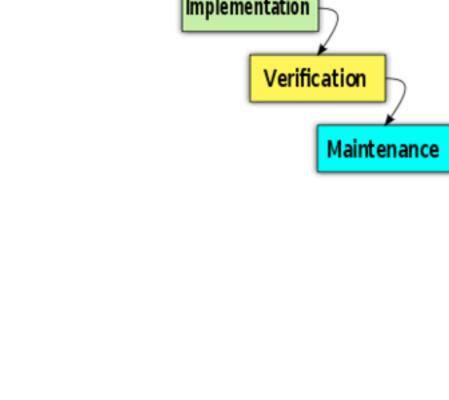
**GUI Testing Testing Methodology** End to End Testing **Exploratory Testing** 

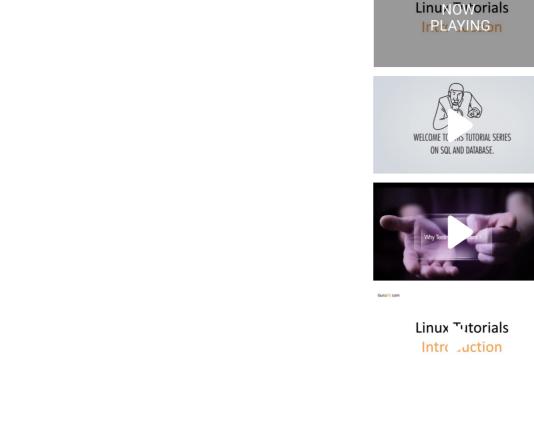
## In this tutorial, you will learn-

- Waterfall model
- Iterative development
- Agile methodology
- Extreme programming • Which Software Methodology to choose?
- How to setup software testing methodologies? Waterfall Model



Requirem ents





### In this model, the next phase begins only when the earlier phase is completed.

sequentially.

What is it?

What Is The Testing Approach? The first phase in the waterfall model is the requirements phase in which all the project requirements are completely

defined before starting the testing. During this phase, the test team brainstorms the scope of testing, test strategy and

drafts a detailed test plan.

Only once the design of software is complete, the team will move on to execution of the test cases to ensure that the developed software behaves as it expected. In this methodology, the testing team proceeds to the next phase only when the previous phase is completed.

This software Engineering model is very simple to plan and manage. Hence, projects, where requirements are clearly defined and stated beforehand, can be easily tested using a waterfall model.

In the waterfall model, you can begin with the next phase only once the previous phase is completed. Hence, this model

This methodology is not suitable for projects where the requirements change frequently.



**Advantages** The main advantage of iterative development is the test feedback is immediately available at the end of each cycle.

**Disadvantages** 

Agility is **VISIBILITY** BUDGET

VALUE

velocity || || |

tests ....

mill

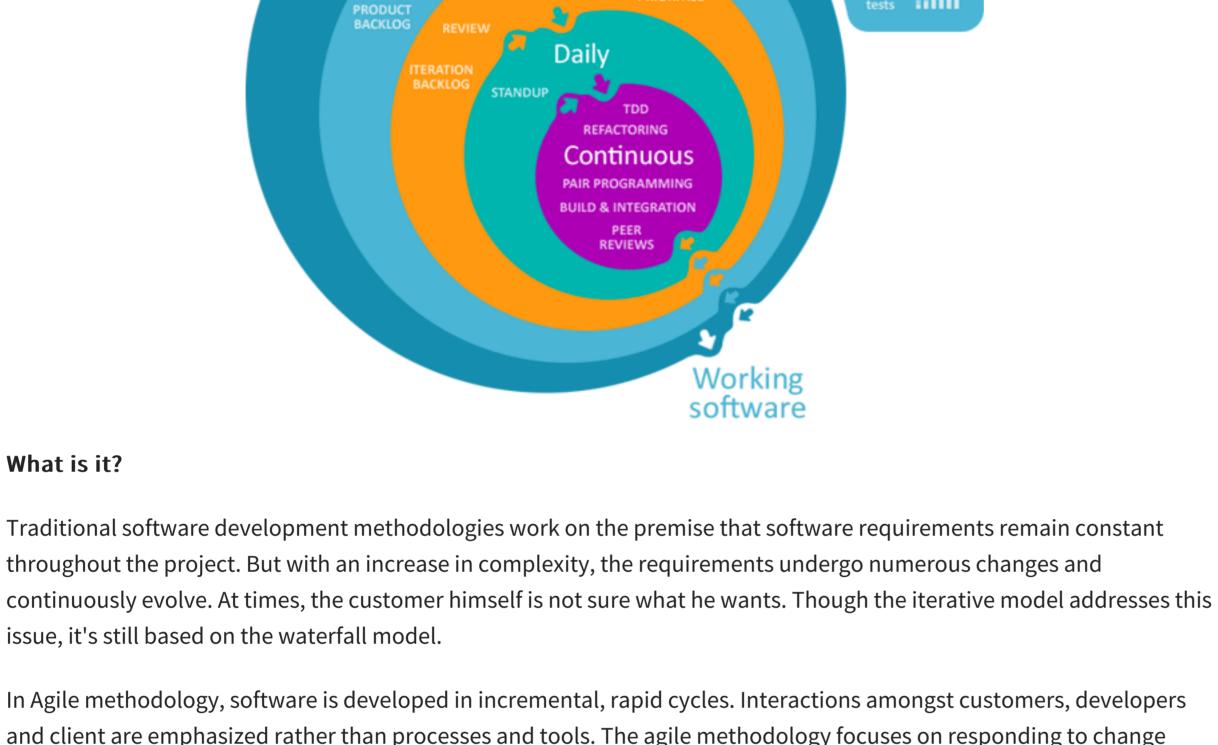
Strategy

Release

Iteration

**GOALS** 

VISION



# What Is The Testing Approach?

What is it?

Incremental testing is used in agile development methods and hence, every release of the project is tested thoroughly. This ensures that any bugs in the system are fixed before the next release. **Advantages** 

It is possible to make changes in the project at any time to comply with the requirements.

Collective

Ownership

Continuous

Integration

Pair

Programming

**Disadvantages** Constant client interaction means added time pressure on all stakeholders including the client themselves, software

This incremental testing minimizes risks.

development and test teams. **Extreme programming** 

Whole

Team

Test-Driven

Development

Simple

Design

Metaphor

Coding

Refactoring

Standard

Sustainable

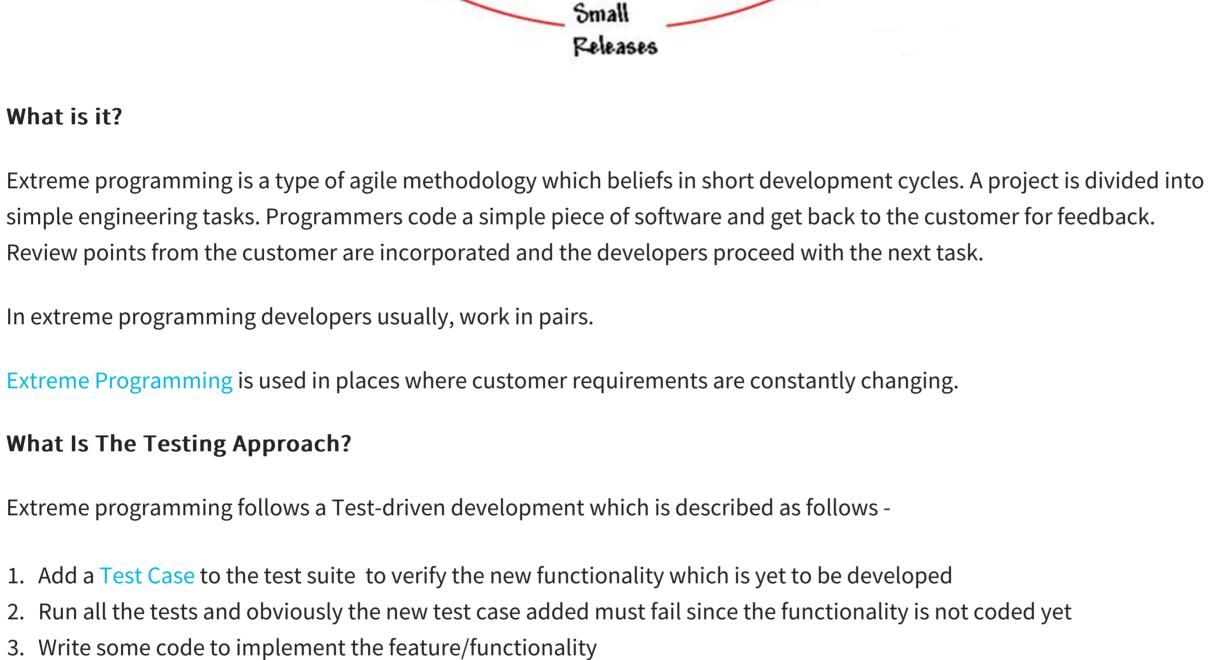
Pace

Planning

Game

## Tests

Customer



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Customers having a vague software design in mind could use extreme programming

4. Run the test suite again. This time, the new test case should pass since the functionally has been coded

Meetings amongst the software development team and clients add to time requirements. Which Software Methodology to choose?

technique and methodology is designed for a specific purpose and has its relative merits and demerits.

There are tons of methodologies available for software development and its corresponding testing. Each testing

How to setup software testing methodologies? Software testing methodologies should not be set up just for the sake of testing software code. The big picture should be

considered and the prime goal of the project should be satisfied with the testing methodology.

In order to keep all the members of the team on the same page, well-defined deliverables should be provided. The deliverables should contain direct content without any ambiguity.

Once scheduling is complete and defined deliverables are made available, the testing team should be able to formulate

the right test approach. Definition documents and developer meetings should indicate the team about the best test

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Testing? Interface

**Report a Bug** 

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# In the waterfall model, software development progress through various phases like Requirements Analysis, Design etc -

**Advantages** 

**Disadvantages** 

What is it?

cannot accommodate unplanned events and uncertainty.

**Iterative development** 

What is the testing Approach? As soon as iteration is completed, the entire system is subjected to testing. Feedback from testing is immediately available and is incorporated in the next cycle. The testing time required in successive iteration can be reduced based on

the experience gained from past iterations.

This model increases communication overheads significantly since, at the end of each cycle, feedback about deliverables, effort etc must be given.

Agile methodology

issue, it's still based on the waterfall model. and client are emphasized rather than processes and tools. The agile methodology focuses on responding to change rather than extensive planning.

XP Practices

What is it?

Continuous testing and continuous integration of small releases ensure software code is delivered is of high quality

**Disadvantages** 

**Advantages** 

Selection of a particular methodology depends on many factors such as the nature of a project, client requirement, project schedule, etc. From a testing perspective, some methodologies push for testing input early in the development life cycle, while others wait until a working model of the system is ready.

**Scheduling** Realistic scheduling is the key to the implementation of successful testing methodology and the schedule should meet the needs of every member of the team. **Defined deliverables** 

Reporting Transparent reporting is very difficult to achieve, but this step determines the effectiveness of the testing approach used in the project.

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approach that can be used for the project.

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Testing? Frontend Testing is a type of

testing that checks the Presentation



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