Difference?

Static testing involves manual or automated reviews of the documents. This review is done

Static Testing vs Dynamic Testing: What's the

What is Static Testing?

**Static Testing** is a type of software testing in

which software application is tested without

reviews of code, requirement documents and

document design are done in order to find the

errors. The main objective of static testing is

applications by finding errors in early stages

code execution. Manual or automated

to improve the quality of software

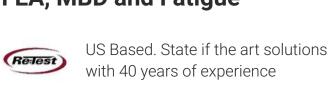
of software development process.

FEA, MBD and Fatigue

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**Testing** 

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during an initial phase of testing to catch Defect early in STLC. It examines work documents and provides review comments. It is also called Non-execution testing or verification FEA, MBD and Fatigue testing. (Relest) Examples of Work documentswith 40 years of experience

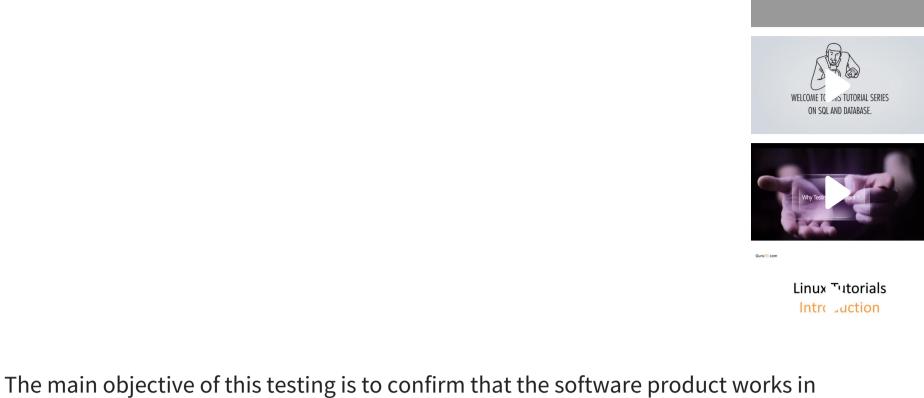
• Requirement specifications

- Design document
- Source Code
- **Test Plans**
- **Test Cases**
- **Test Scripts** • Help or User document
- Web Page content
- What is Dynamic Testing?

## system, memory/cpu usage and overall performance of the system. Hence the name "Dynamic"

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Under **Dynamic Testing**, a code is executed. It checks for functional behavior of software



Dynamic testing executes the software and validates the output with the expected outcome. Dynamic testing is performed at all levels of testing and it can be either black or white box testing.

conformance with the business requirements. This testing is also called an Execution

**KEY DIFFERENCE** 

## • Static testing checks the code, requirement documents, and design documents to

done by executing the program.

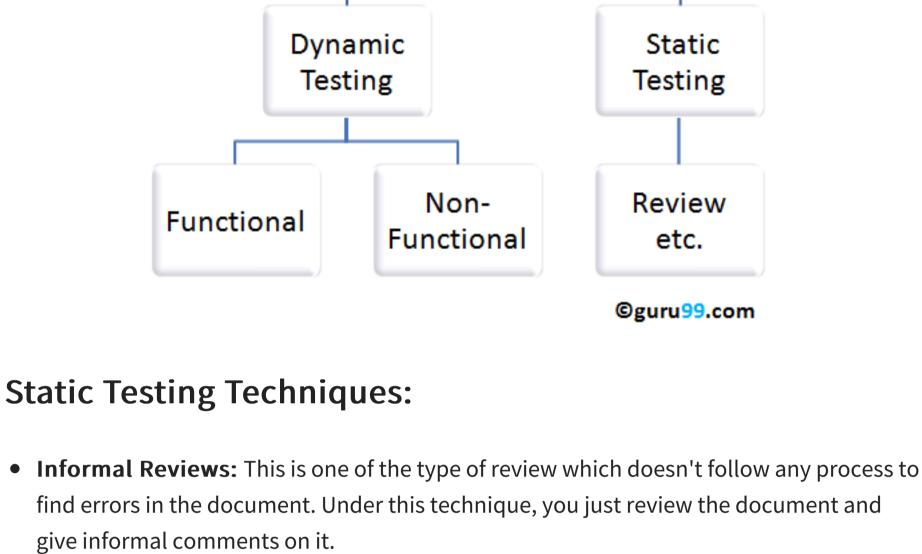
technique or validation testing.

find errors whereas Dynamic testing checks the functional behavior of software system, memory/CPU usage and overall performance of the system. • Static testing is about the prevention of defects whereas Dynamic testing is about

• Static testing was done without executing the program whereas Dynamic testing is

- finding and fixing the defects. • Static testing does the verification process while Dynamic testing does the validation process.
- Static testing is performed before compilation whereas Dynamic testing is performed after compilation. • Static testing techniques are structural and statement coverage while Dynamic
- Testing

testing techniques are Boundary Value Analysis & Equivalence Partitioning.



## They try to find any discrepancies in the specifications and standards followed. This

point during development.

they are integrated.

dynamic testing.

review concentrates mainly on the technical documentation related to the software such as Test Strategy, Test Plan and requirement specification documents. • Walkthrough: The author of the work product explains the product to his team.

specification of the software product and checks whether it is suitable for the project.

• **Technical Reviews:** A team consisting of your peers, review the technical

Participants can ask questions if any. A meeting is led by the author. Scribe makes note of review comments • Inspection: The main purpose is to find defects and meeting is led by a trained moderator. This review is a formal type of review where it follows a strict process to find the defects. Reviewers have a checklist to review the work products. They record the defect and inform the participants to rectify those errors.

• Static code Review: This is a systematic review of the software source code without

optimization, etc. This is also termed as white box testing. This review can be done at any

executing the code. It checks the syntax of the code, coding standards, code

- **Dynamic Testing Techniques:**
- Unit Testing: Under Unit Testing, individual units or modules are tested by the developers. It involves testing of source code by developers. • Integration Testing: Individual modules are grouped together and tested by the developers. The purpose is to determine what modules are working as expected once

• System Testing: System Testing is performed on the whole system by checking

whether the system or application meets the requirement specification document.

Also, Non-functional testing like performance, Security Testing fall under the category of

friendly system. Difference between Static and Dynamic Testing:

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**Static Testing Dynamic Testing** Testing is done by executing the program Testing was done without executing the program

Dynamic testing does the validation

Dynamic testing is about finding and fixing

Dynamic testing gives bugs/bottlenecks in

process

the defects

the software system.

This testing does the verification process

Static testing is about prevention of defects

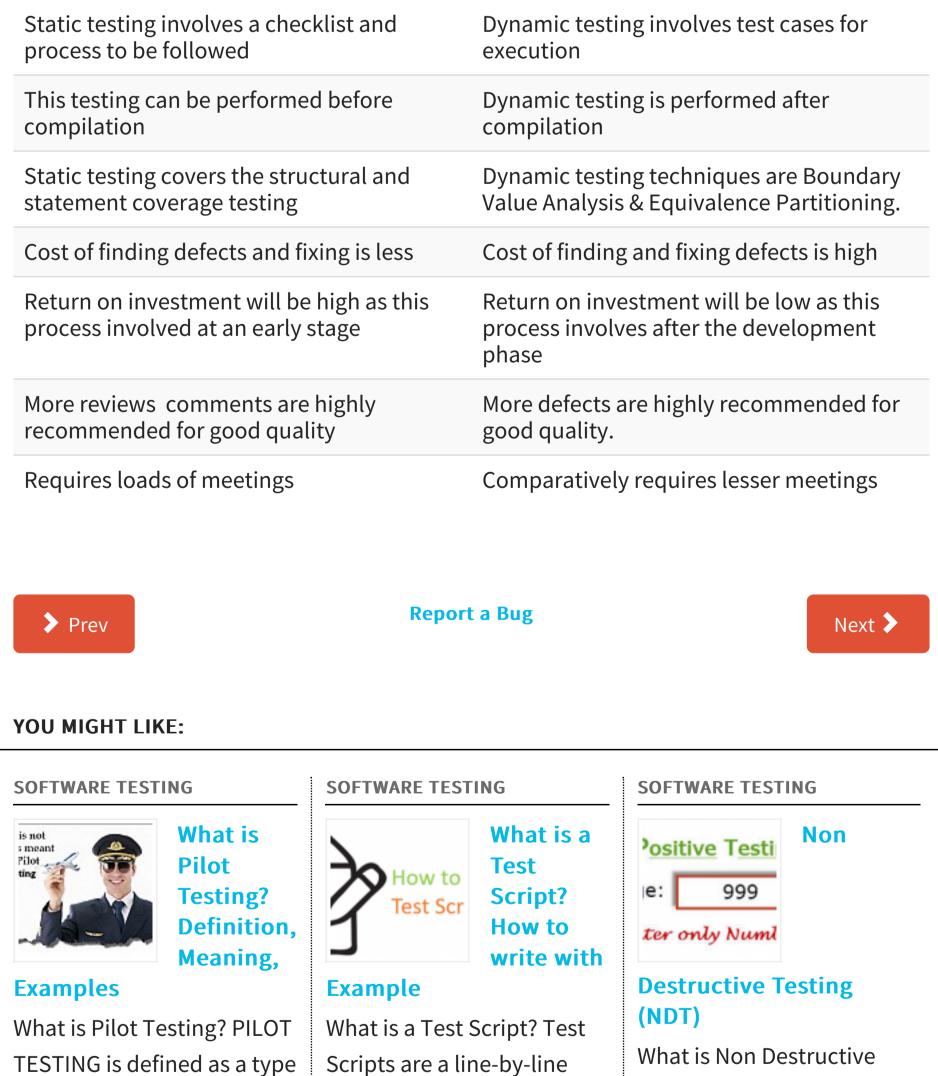
Static testing gives an assessment of code

and documentation

of Software Testing that

verifies a...

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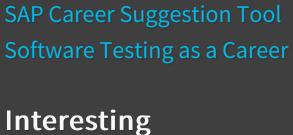




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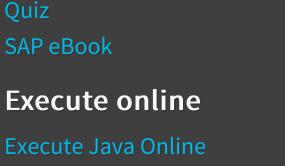
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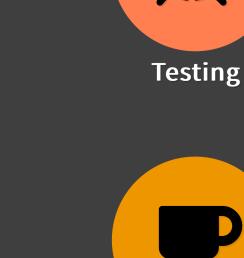
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testing type that involves...

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