

SAP Must Learn! ▼ Big Data Web T

Live Projects Blog (/blog/)

Black Box Testing Vs. White Box Testing: Key Differences



What is Black Box testing?

In Black-box testing, a tester doesn't have any information about the internal working of the software system. Black box testing is a high level of testing that focuses on the behavior of the software. It involves testing from an external or end-user perspective. Black box testing can be applied to virtually every level of software testing: unit, integration, system, and acceptance.

Testing \

What is White Box testing?

White-box testing is a testing technique which checks the internal functioning of the system. In this method, testing is based on coverage of code statements,

branches, paths or conditions. White-Box testing is considered as low-level testing. It is also called glass box, transparent box, clear box or code base testing. The white-box Testing method assumes that the path of the logic in a unit or program is known.

Difference between Black Box testing and White Box testing



_(//cdn.guru99.com/images/1/030118_0751_BackBoxTest1.png)

a testing approach which is used to test the software out the knowledge of the internal structure of program or lication.	It is a testing approach in which internal structure is known to the tester.
so knowns as data-driven, box testing, data-, and ctional testing.	It is also called structural testing, clear box testing, code-based testing, or glass box testing.
ing is based on external expectations; internal behavior of application is unknown.	Internal working is known, and the tester can test accordingly.
type of testing is ideal for higher levels of testing like tem Testing, Acceptance testing.	Testing is best suited for a lower level of testing like Unit Testing, Integration testing.
gramming knowledge is not needed to perform Black Box ng.	Programming knowledge is required to perform White Box testing.
lementation knowledge is not requiring doing Black Box ng.	Complete understanding needs to implement WhiteBox testing.
and programmer are dependent on each other, so it is to automate.	White Box testing is easy to automate.
main objective of this testing is to check what functionality are system under test.	The main objective of White Box testing is done to check the quality of the code.
r	ementation knowledge is not requiring doing Black Box and programmer are dependent on each other, so it is to automate. main objective of this testing is to check what functionality

Parameter	Black Box testing	White Box testing
Basis for test cases	Testing can start after preparing requirement specification document.	Testing can start after preparing for Detail design document.
Tested by	Performed by the end user, developer, and tester.	Usually done by tester and developers.
Granularity	Granularity is low.	Granularity is high.
Testing method	It is based on trial and error method.	Data domain and internal boundaries can be tested.
Time	It is less exhaustive and time-consuming.	Exhaustive and time-consuming method.
Algorithm test	Not the best method for algorithm testing.	Best suited for algorithm testing.
Code Access	Code access is not required for Black Box Testing.	White box testing requires code access. Thereby, the code could be stolen if testing is outsourced.
Benefit	Well suited and efficient for large code segments.	It allows removing the extra lines of code, which can bring in hidden defects.
Skill level	Low skilled testers can test the application with no knowledge of the implementation of programming language or operating system.	Need an expert tester with vast experience to perform white box testing.

Parameter	Black Box testing	White Box testing
Techniques	Equivalence partitioning is Black box testing technique is used for Blackbox testing.	Statement Coverage, Branch coverage, and Path coverage are White Box testing technique.
	Equivalence partitioning divides input values into valid and invalid partitions and selecting corresponding values from each partition of the test data.	·
	Boundary value analysis	Branch coverage validates whether each
	checks boundaries for input values.	branch is executed at least once
		Path coverage method tests all the paths of the program.
Drawbacks	Update to automation test script is essential if you to modify application frequently.	Automated test cases can become useless if the code base is rapidly changing.
	ISTQB Exam? Read This	① ×
Building Your Testing Career	Get easier to understand questions - no trick questions - and career extras from ASTQB.	

YOU MIGHT LIKE:

BLOG BLOG BLOG (/design-verification-process.html) (/sap-bpc.html) (/sap-bpc.html) (/best-programming-language.html) (/design-verification-(/best-programmingprocess.html) language.html) **SAP BPC Design Verification Process 10 Best Programming Language to Learn** (/sap-bpc.html) in 2018 (/design-verification-process.html) (/best-programming-language.html)

BLOG

(/n-tier-architecture-system-concepts-



tips.html) (/n-tier-architecturesystem-concepts-tips.html)

N-Tier Architecture - System Concepts & Tips

(/n-tier-architecture-system-concepts-tips.html)

BLOG

(/top-20-continuous-integration-



tools.html) (/top-20-continuous-integration-tools.html)

Top 20 Continuous Integration Tools in 2018

(/top-20-continuous-integration-tools.html)

BLOG

(/business-intelligence-tools.html)



(/business-intelligence-tools.html)

Top 24 Business Intelligence(BI) Tools in 2018

(/business-intelligence-tools.html)



About

About US (/about-us.html)
Advertise with Us (/advertise-us.html)
Write For Us (/become-an-instructor.html)
Contact US (/contact-us.html)

Career Suggestion

SAP Career Suggestion Tool (/best-sap-module.html)
Software Testing as a Career (/software-testing-career-complete-guide.html)
Top Tools List (/testing-development-tools.html)
Certificates (/certificate-it-professional.html)

Interesting

Books to Read! (/books.html)
Suggest a Tutorial
Blog (/blog/)
Quiz (/tests.html)

Execute online

Execute Java Online (/try-java-editor.html)

Execute Javascript (/execute-javascript-online.html)

Execute HTML (/execute-html-online.html)

Execute Python (/execute-python-online.html)

© Copyright - Guru99 2018

Privacy Policy (/privacy-policy.html)