Differences

Black Box Testing Vs. White Box Testing: Key

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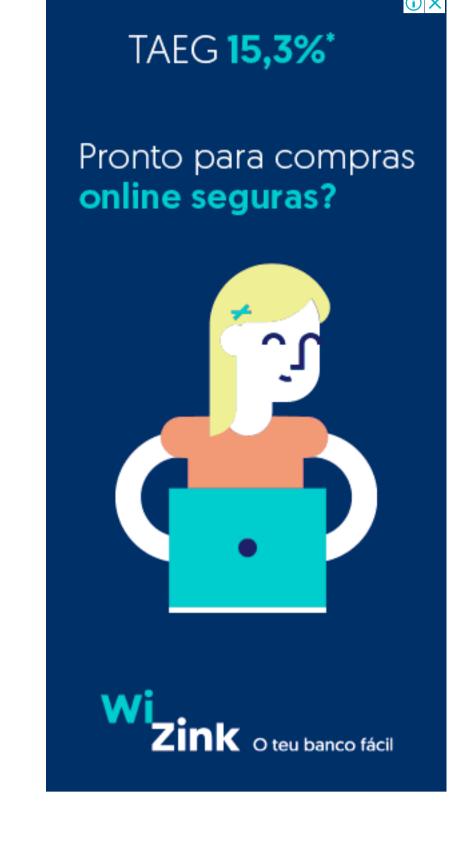
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Testing

Functional Vs Non-Functional Black Box Vs. White Box

Frontend Vs. Backend

Testing SDLC vs STLC



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.

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.

• In Black Box, testing is done without the knowledge of the internal structure of

KEY DIFFERENCE

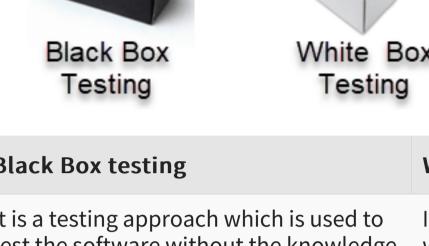
internal structure of program. • Black Box test doesn't require programming knowledge whereas the White Box test requires programming knowledge.

program or application whereas in White Box, testing is done with knowledge of the

- Black Box testing has the main goal to test the behavior of the software whereas White Box testing has the main goal to test the internal operation of the system.
- Black Box testing is focused on external or end-user perspective whereas White Box
- testing is focused on code structure, conditions, paths and branches. • Black Box test provides low granularity reports whereas the White Box test provides high granularity reports.
- Black Box testing is a not time-consuming process whereas White Box testing is a time-consuming process.
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testing





	Black Box Testing	White Bo Testing	X
Parameter	Black Box testing		White Box testing
Definition	It is a testing approach which test the software without the of the internal structure of proapplication.	knowledge	It is a testing approach in which internal structure is known to the tester.
Alias	It also knowns as data-driven, testing, data-, and functional		It is also called structural testing, clear box testing, code-based testing, or glass box testing.
Base of Testing	Testing is based on external expectations; internal behavior application is unknown.	or of the	Internal working is known, and the tester can test accordingly.
Usage	This type of testing is ideal for levels of testing like System Teacceptance testing.	•	Testing is best suited for a lower level of testing like Unit Testing, Integration testing.
Programming knowledge	Programming knowledge is no to perform Black Box testing.	ot needed	Programming knowledge is required to perform White Box testing.
Implementation knowledge	Implementation knowledge is requiring doing Black Box test		Complete understanding needs to implement WhiteBox testing.
Automation	Test and programmer are depeach other, so it is tough to au		White Box testing is easy to automate.
Objective	The main objective of this test check what functionality of th under test.		The main objective of White Box testing is done to check the quality of the code.
Basis for test cases	Testing can start after prepari requirement specification doc	•	Testing can start after preparing for Detail design document.
Tested by	Performed by the end user, de and tester.	eveloper,	Usually done by tester and developers.
Granularity	Granularity is low.		Granularity is high.
Testing method	It is based on trial and error m	ethod.	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 algor testing.	ithm	Best suited for algorithm testing.
Code Access	Code access is not required fo Testing.	r Black Box	White box testing requires code access. Thereby, the code could be stolen if testing is outsourced.
Benefit	Well suited and efficient for la segments.	rge code	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 knowledg implementation of programm language or operating system	e of the ing	Need an expert tester with vast experience to perform white box testing.
Techniques	Equivalence partitioning is Black box testing technique is used for Blackbox testing. Equivalence partitioning divides input values into valid and invalid partitions and selecting corresponding values from each partition of the test data.		Statement Coverage, Branch coverage, and Path coverage are White Box testing technique.
			Statement Coverage validates whether every line of the code is executed at least once.
	Boundary value analysis		Branch coverage
	checks boundaries for input v	alues.	validates whether each branch is executed at least once
			Path coverage method tests all the paths of the program.
Drawbacks	Update to automation test scressential if you to modify applered frequently.	•	Automated test cases can become useless if the code base is rapidly changing.

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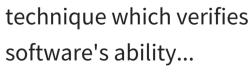
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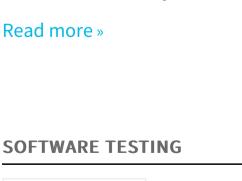


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Decision Table A Decision

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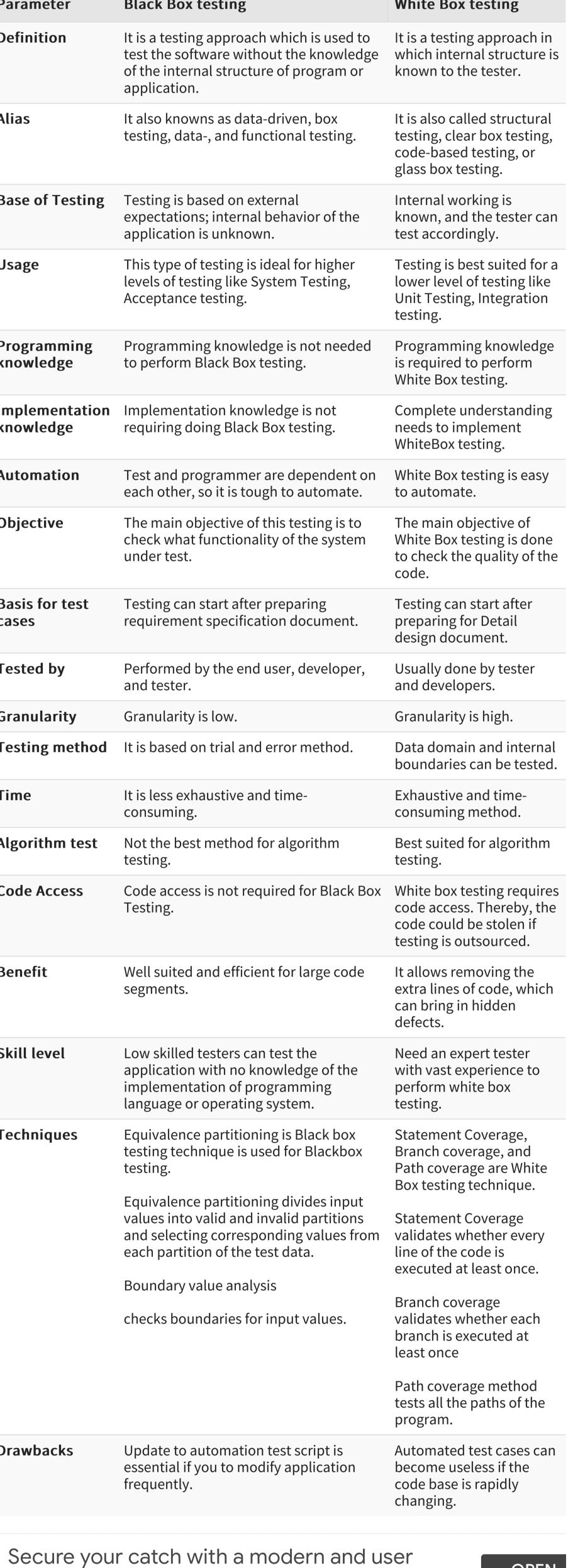
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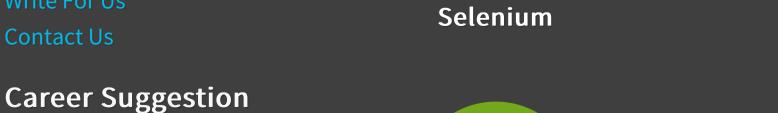
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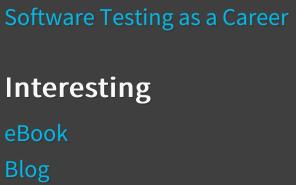
common question that a

software Testing aspirant

has is... Do testers have to







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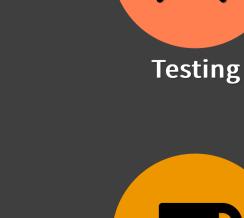
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