Differences Between Black Box Testing and White Box Testing

[**Definition of Test**](http://softwaretestingfundamentals.com/definition-of-test/)

The Differences Between [Black Box Testing](http://softwaretestingfundamentals.com/black-box-testing/) and [White Box Testing](http://softwaretestingfundamentals.com/white-box-testing/) are listed below.

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| **Criteria** | **Black Box Testing** | **White Box Testing** |
| *Definition* | Black Box Testing is a software testing method in which the internal structure/ design/ implementation of the item being tested is NOT known to the tester | White Box Testing is a software testing method in which the internal structure/ design/ implementation of the item being tested is known to the tester. |
| *Levels Applicable To* | Mainly applicable to higher levels of testing:[Acceptance Testing](http://softwaretestingfundamentals.com/acceptance-testing/)  [System Testing](http://softwaretestingfundamentals.com/system-testing/) | Mainly applicable to lower levels of testing:[Unit Testing](http://softwaretestingfundamentals.com/unit-testing/)  [Integration Testing](http://softwaretestingfundamentals.com/integration-testing/) |
| *Responsibility* | Generally, independent Software Testers | Generally, Software Developers |
| *Programming Knowledge* | Not Required | Required |
| *Implementation Knowledge* | Not Required | Required |
| *Basis for Test Cases* | Requirement Specifications | Detail Design |

For a combination of the two testing methods, see [Gray Box Testing](http://softwaretestingfundamentals.com/gray-box-testing/).