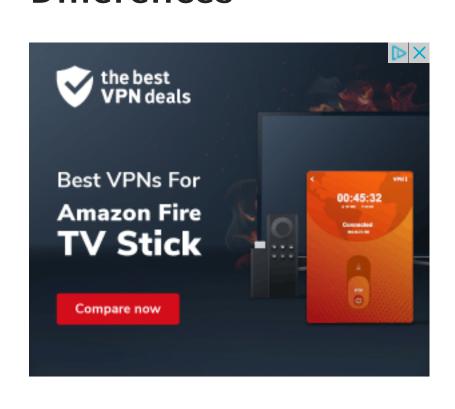
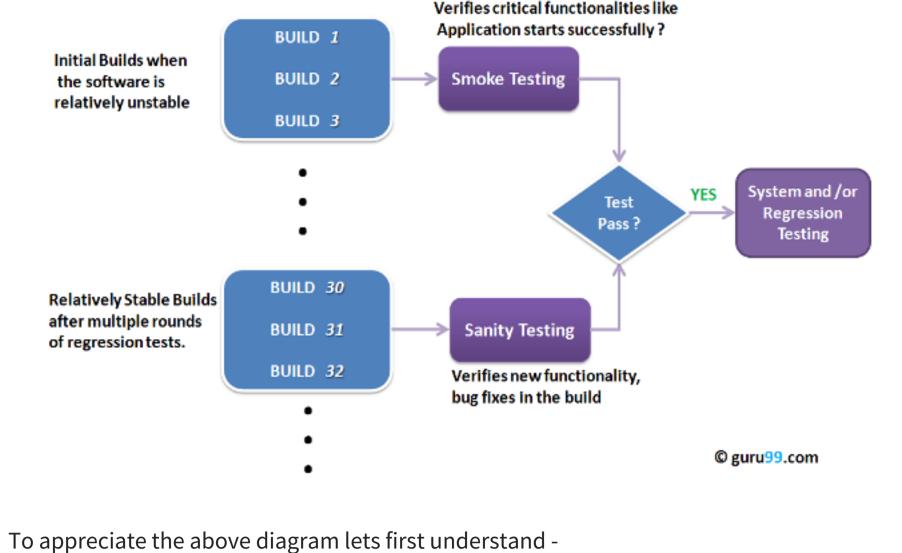
# Sanity Testing Vs Smoke Testing: Introduction & **Differences**



Smoke and Sanity testing are the most misunderstood topics in Software Testing. There is an enormous amount of literature on the subject, but most of them are confusing. The following article makes an attempt to address the confusion.

The key differences between Smoke and Sanity Testing can be learned with the help of the following diagram -



What is a Software Build?

#### If you are developing a simple computer program which consists of only one source code file, you merely need to compile and link this one file, to produce an executable file. This

process is very simple. Usually, this is not the case. A typical Software Project consists of hundreds or even thousands of source code files. Creating an executable program from these source files is a

complicated and time-consuming task. You need to use "build" software to create an executable program and the process is called " Software Build"

**Smoke Testing** 

## **Smoke Testing** is a software testing technique performed post software build to verify that the critical functionalities of software are working fine. It is executed before any

detailed functional or regression tests are executed. The main purpose of smoke testing is to reject a software application with defects so that QA team does not waste time testing broken software application. **FEATURED VIDEOS** 



that the critical functionalities of the system are working fine.



For Example, a typical smoke test would be - Verify that the application launches successfully, Check that the GUI is responsive ... etc.

component of the system. The objective is not to perform exhaustive testing, but to verify

• Smoke Testing is done by both developers or testers whereas Sanity Testing is done by testers.

• Smoke Testing has a goal to verify "stability" whereas Sanity Testing has a goal to

# verify "rationality".

**KEY DIFFERENCE** 

- Smoke Testing verifies the critical functionalities of the system whereas Sanity Testing verifies the new functionality like bug fixes.
- Smoke testing is a subset of acceptance testing whereas Sanity testing is a subset of Regression Testing. • Smoke testing is documented or scripted whereas Sanity testing isn't.
- Smoke testing verifies the entire system from end to end whereas Sanity Testing verifies only a particular component.

Sanity testing is a kind of Software Testing performed after receiving a software build, with

proposed functionality works roughly as expected. If sanity test fails, the build is rejected to

### minor changes in code, or functionality, to ascertain that the bugs have been fixed and no further issues are introduced due to these changes. The goal is to determine that the

**Smoke Testing** 

What is Sanity Testing?

save the time and costs involved in a more rigorous testing. The objective is "not" to verify thoroughly the new functionality but to determine that the developer has applied some rationality (sanity) while producing the software. For instance, if your scientific calculator gives the result of 2 + 2 =5! Then, there is no point testing the advanced functionalities like sin 30 + cos 50.

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**Sanity Testing** 

Smoke Testing is performed to ascertain Sanity Testing is done to check the new functionality/bugs have been fixed that the critical functionalities of the program is working fine

Smoke Testing Vs Sanity Testing - Key Differences

The objective of this testing is to verify the The objective of the testing is to verify the "stability" of the system in order to proceed "rationality" of the system in order to with more rigorous testing proceed with more rigorous testing Sanity testing is usually performed by This testing is performed by the developers or testers testers Smoke testing is usually documented or Sanity testing is usually not documented scripted and is unscripted Sanity testing is a subset of Regression Smoke testing is a subset of Acceptance testing Testing Smoke testing exercises the entire system Sanity testing exercises only the particular from end to end component of the entire system Sanity Testing is like specialized health Smoke testing is like General Health Check check up Up

### • One of the best industry practice is to conduct a Daily build and smoke test in software projects. Both smoke and sanity tests can be executed manually or using an automation tool.

Points to note.

When automated tools are used, the tests are often initiated by the same process that generates the build itself. • As per the needs of testing, you may have to execute both Sanity and Smoke Tests in the

Both sanity tests and smoke tests are ways to avoid wasting time and effort by quickly

• Smoke testing performed on a particular build is also known as a build verification test.

determining whether an application is too flawed to merit any rigorous testing.

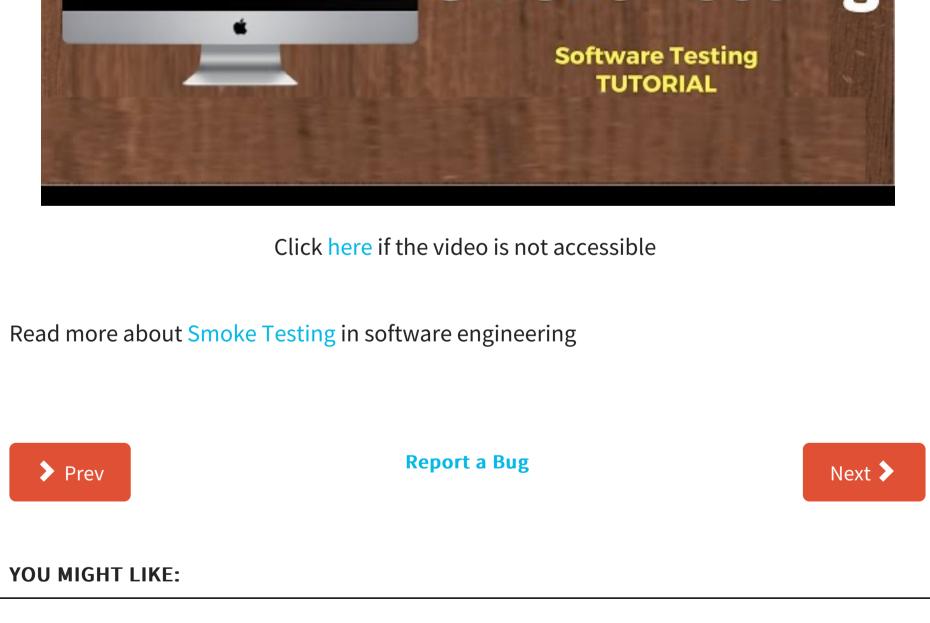
Sanity Testing is also called tester acceptance testing.

are often confused and used interchangeably

software build. In such cases, you will first execute Smoke tests and then go ahead with Sanity Testing. In industry, test cases for Sanity Testing are commonly combined with that for smoke tests, to speed up test execution. Hence, it's a common that the terms

Smoke and Sanity Testing: Software Testing Tu...

Sanity Testing **Smoke Testing** 



**SOFTWARE TESTING** 

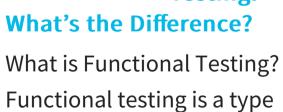
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of testing which verifies that

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**Functional** 

**Testing Vs** 

**Functional** 

**Testing:** 

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What is

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**Strategy** vs Test Plan: What's the **Difference? Review?** What is Test Plan? A Test What is Static Testing? Plan is defined as a Static Testing is a software document which outlines testing technique which is

**Test** 

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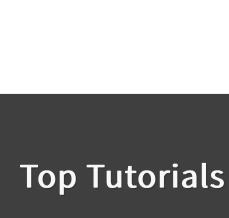
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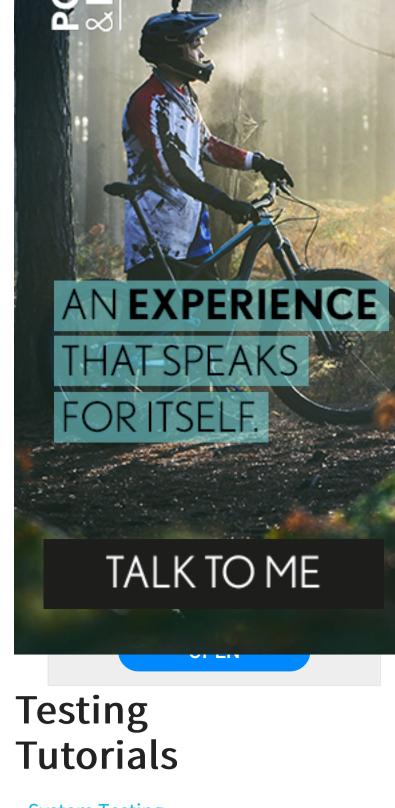
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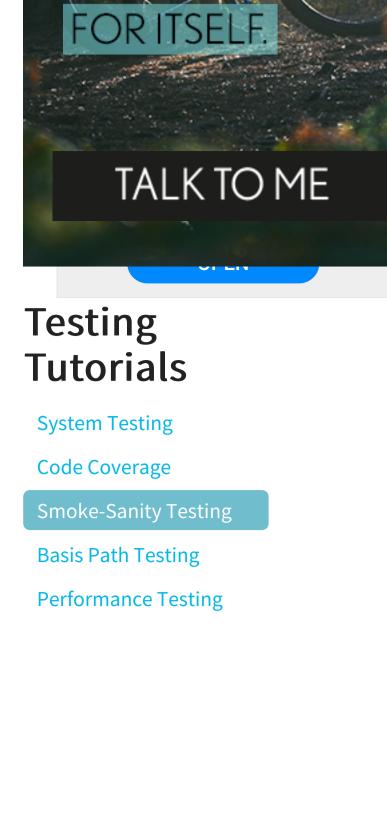
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