



# WHAT IS SOFTWARE TESTING


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In 1994 in Scotland, it is suspected that a  
**Software Error** had crashed the Chinook  
helicopter **killing all 29 passengers**



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It could have been prevented if the software functioned properly

### Mull of Kintyre Chinook crash



576, the aircraft involved in the accident in 1987

#### Accident

2 June 1994

Summary

Crashed in fog. Disputed: [Pilot error](#) or leading to [CFIT](#) or mechanical failure (FADEC software error).

[Mull of Kintyre, Scotland](#)

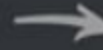
[55°18'49"N 5°47'42"W](#)

Source: Wikipedia

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There are many other Software bugs  
that caused loss of lives and money

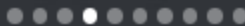
That is why it is important to **test**  
**the softwares** before production



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Software testing is the process of  
**evaluating & verifying** that a software  
application does what it is supposed to do



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Testing can be categorized based on different criteria

## Manual Testing




The tester takes over the role of an end-user & tests the software manually to identify any unexpected behavior

## Automated Testing



The tester writes scripts & uses another software to test the product quickly and repeatedly

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## Software Testing Techniques

Internals not known  
Testing as user

Internals fully known  
Testing as developer

Internals relevant to testing known  
Testing as user with access to internals



Black Box Testing



Grey Box Testing

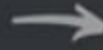


White Box Testing

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It is also categorized into two based on validating the business requirements for the application

## Functional Testing

Testing the behavior of the software

## Non-Functional Testing

Testing the reliability, usability & performance



Unit Testing

Integration Testing

System Testing

Acceptance Testing



Performance Testing

Security Testing

Usability Testing

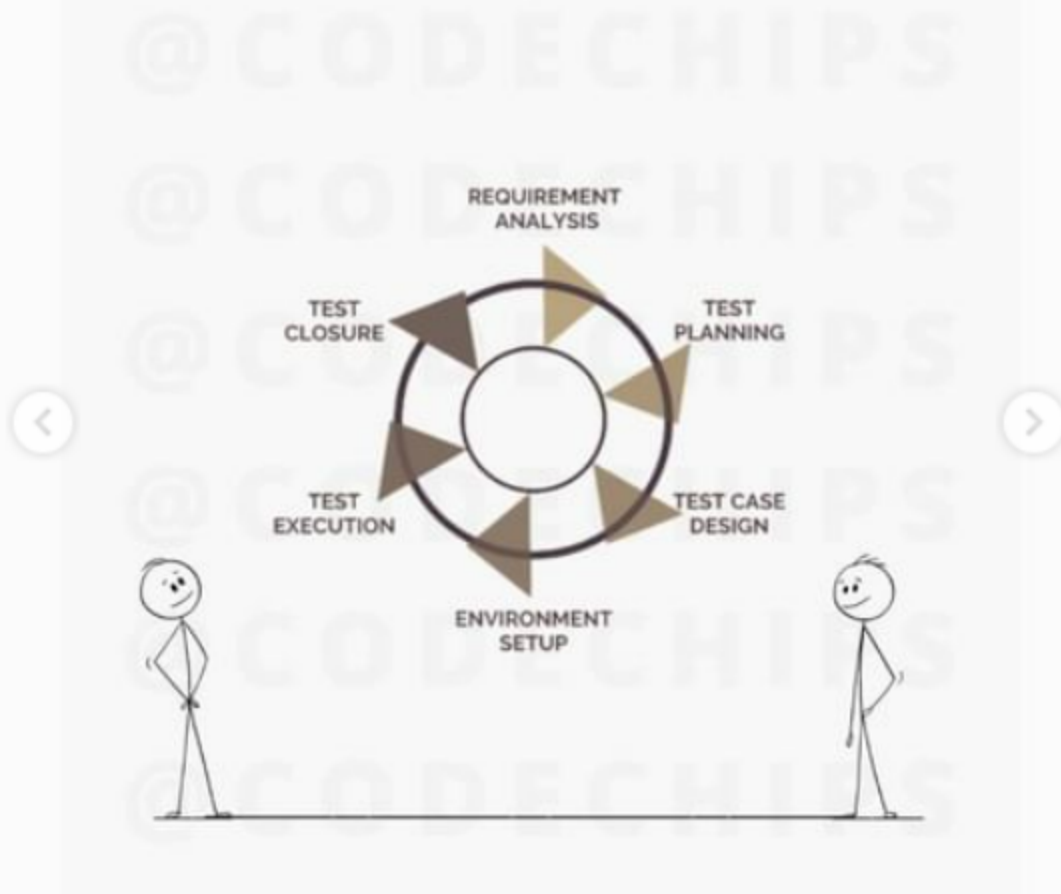
Compatibility Testing







## Software Testing Life Cycle (STLC)



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HOW IT WORKS