

- What is testing?
- · Why we test?
- Testing methods

What is testing?

The process of exercising software to verify that it satisfies specified requirements of end user and to detect errors



Misconceptions

It is possible to completely test a product



Why testing?

- Challenge to release a bug-free product;
- Ensuring that system is ready for use;



Lets face it:
No one want
To lose money



What is testing?

The process of exercising software to verify that it satisfies specified requirements of end user and to detect errors



Why testing?

- · Challenge to release a bug-free product;
- Ensuring that system is ready for use;

My code never
has bugs
lt just develops
random unexpected
features.

Lets face it:
No one want
To lose money!

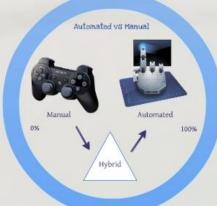


Misconceptions

It is possible to completely test a product



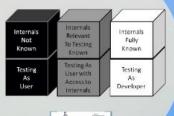
Testing Techniques



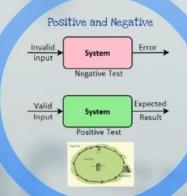




The box approach





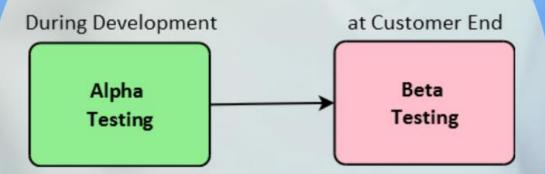


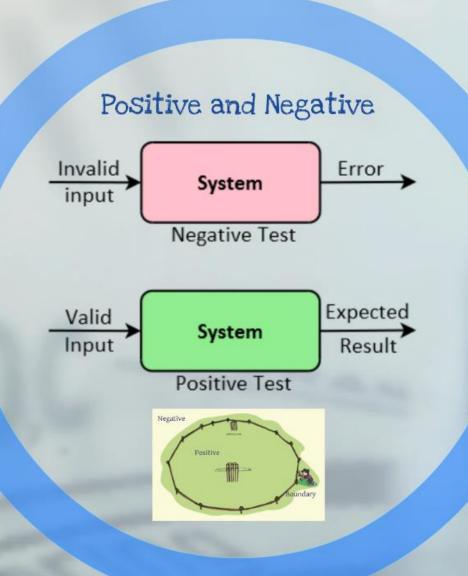
Degree of component's

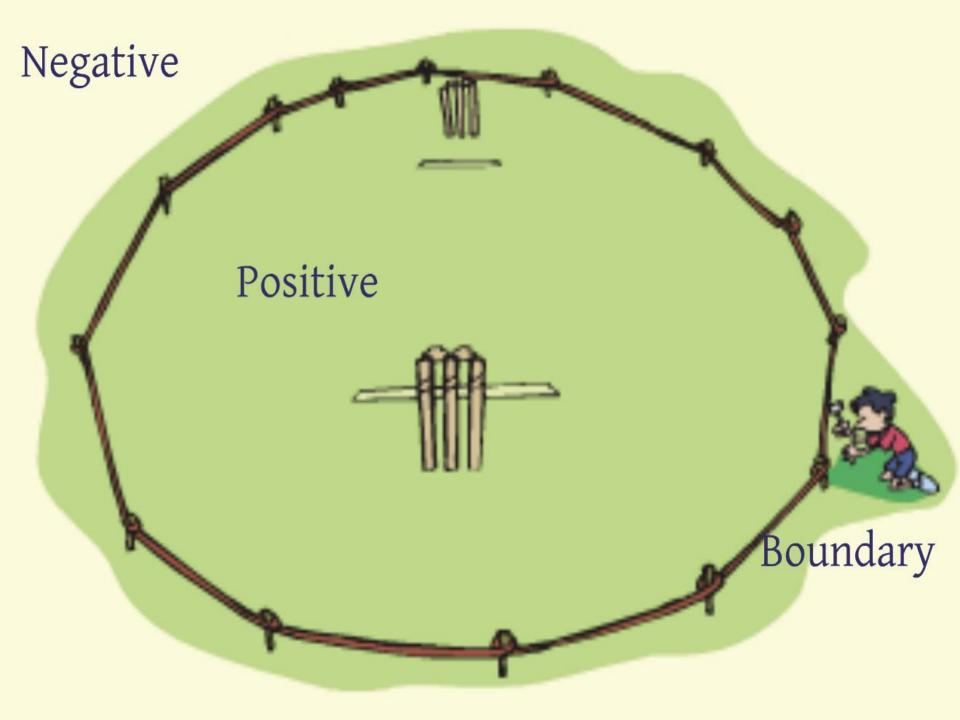


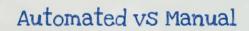


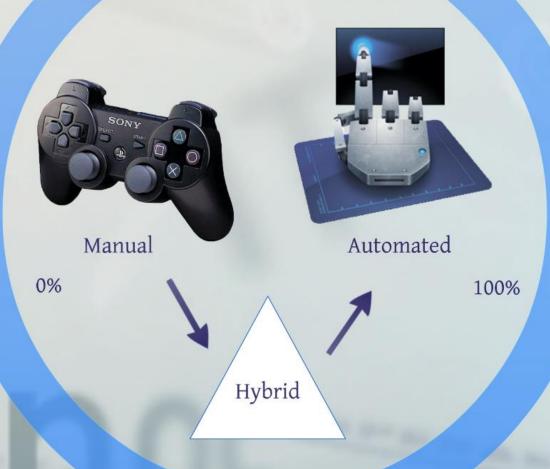
Alpha and Beta



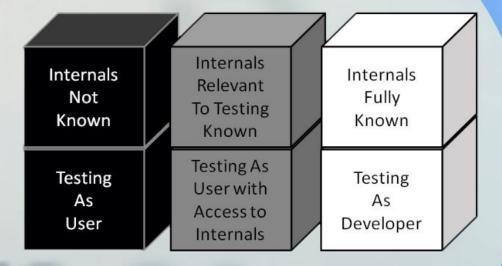








The box approach





Inputs Put in two magic coins Tap with magic wand

Outputs

■ Pull out rabbit.



Black box testing Does the trick work?



Clear box testing How does the trick work?

DON'T DEFINE YOUR WORLD IN BLACK AND WHITE

BECAUSE THERE IS SO MUCH HIDING AMONGST THE GREYS

Level of product knowledge

Monkey Always Remember!



We can hire a trained monkey to Do Your Job!

Test in Progress

Exploratory

It is an approach to software testing that is concisely described as simultaneous learning, test design and test execution

Ad Hoc (Intuitive)

Ad-Hoc testing is not structured



Monkey

Always Remember!



We can hire a trained monkey to Do Your Job!



Exploratory

It is an approach to software testing that is concisely described as simultaneous learning, test design and test execution

Degree of component's isolation

Unit testing



Integration testing



Integrate components together to perform a complete system





Unit testing



Developer tests if individual units of source code are fit for use





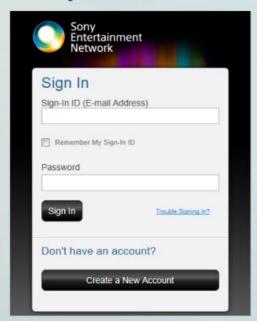
Integrate components together to perform a complete system

System testing



Smoke/functional

Functional Testing describes what the system does



Smoke testing is preliminary testing

Regression



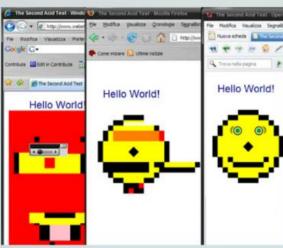
Compatibility

evaluate the application's compatibility with the computing environment









Usability



Security

process to determine that an information system protects data and maintains functionality as intended





Because every country's language, culture, currency, taxes and standards are different



Performance

Load/stability

Determine a system's behavior under both normal and anticipated peak load conditions



Configuration



Stress



Load/stability

Determine a system's behavior under both normal and anticipated peak load conditions



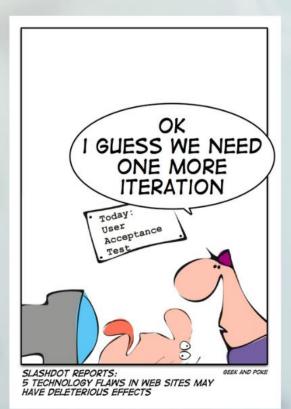
Stress



Configuration



Acceptance testing



this is how we finish a presentation:



Questions?

