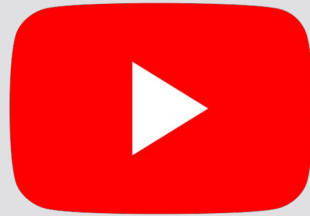


Software Testing Foundation

PART 3



compile podcast



/RaminZare

Previously ...





- Testing in SDLC
- Test Levels
- Static Test

Previously ...

- Test design
- Test procedures

***The idea of
test coverage***



Title:

Mr.



Last name:

Hambling

First name:

Brian

Submit

Test development process



- Quantitative assessment of the extent and quality of testing
- ‘I’ve tested 80 percent of the requirements’ provide a real measure of what has

The idea of test coverage



- **Black-box techniques**
- **White-box techniques**
- **Experience based**

Choosing test techniques

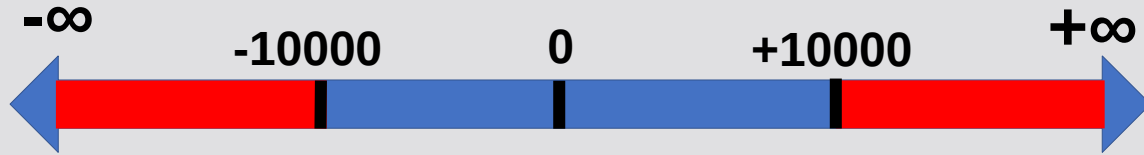
- Based on requirements
- Techniques
 - Equivalence partitioning
 - Boundary value analysis
 - Decision table testing
 - State transition testing
 - Use case testing

***Equivalence
partitioning***



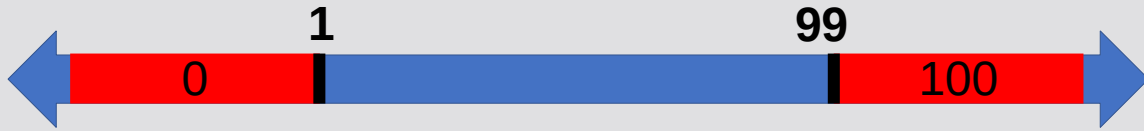
Black box techniques

**Boundary
value analysis**



Equivalence partitioning

**Decision
table testing**



Boundary value analysis

	Rule 1	Rule 2	Rule 3	Rule 4
<i>Conditions</i>				
Normal customers	T	T	F	F
Loyal customers	F	F	T	T
Extra discount selected	-	-	T	F
Spend > 100€	F	T	-	-
<i>Actions</i>				
No discount	T	F	F	F
Loyalty discount	F	T	T	F
Extra Point	F	F	F	T

**State transition
testing**



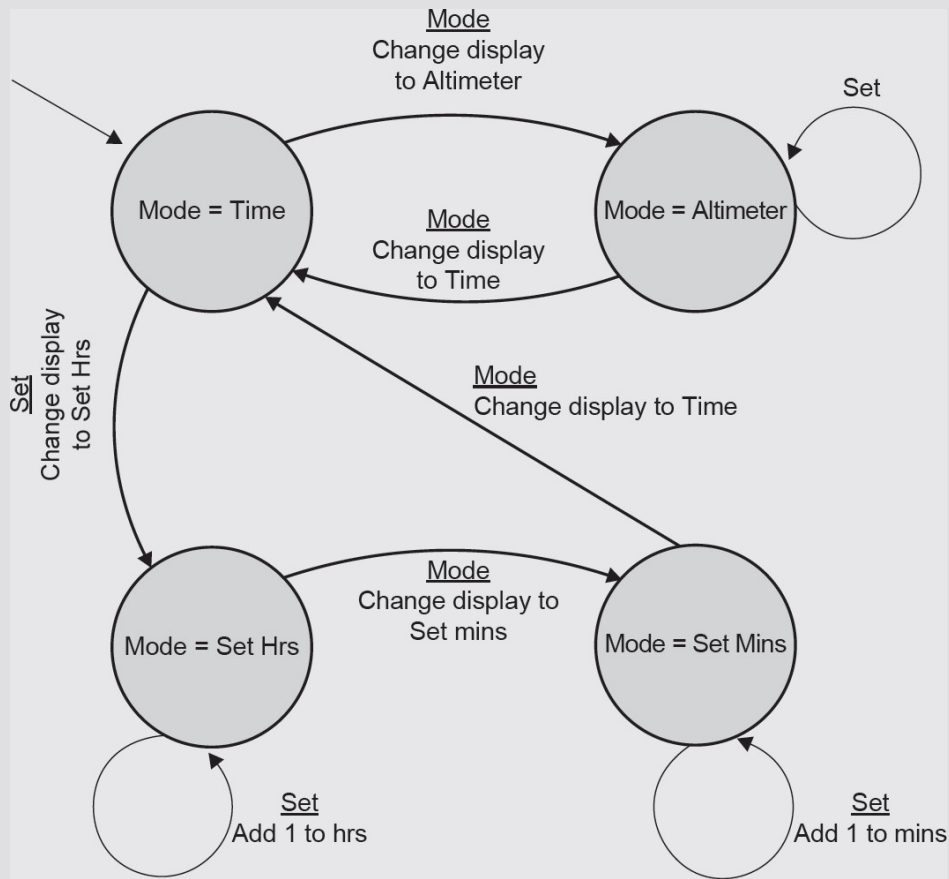
Decision table testing

**State transition
testing**



- **Events:**
 - Mode
 - Set

State transition testing



**State transition
testing: State
table**



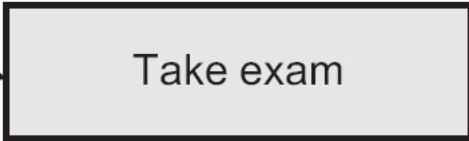
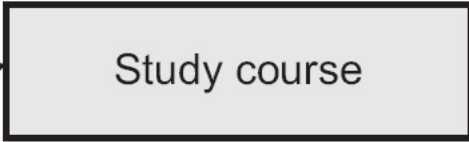
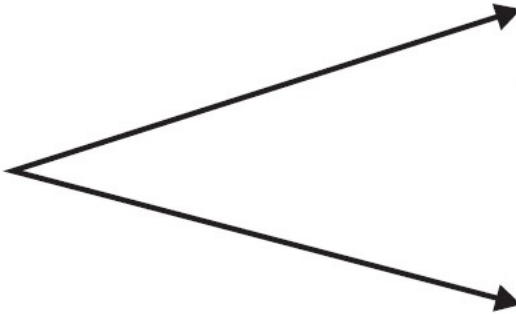
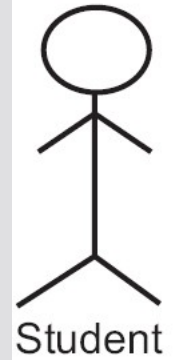
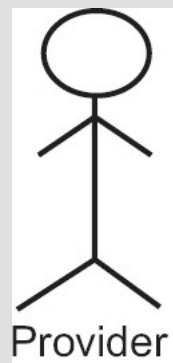
State transition testing

	Mode	Set
Mode = Time	Mode = Altimeter/Change display to Altimeter	Mode = Set Hrs/Change display to Set Hrs Null
Mode = Altimeter	Mode = Time/Change display to Time	Null
Set Hrs	Mode = Set Mins/Change display to Set Mins	Set Hrs/Add 1 to Hrs
Set Mins	Mode= Time/Change display to Time	Set Mins/Add 1 to Mins

**Use case
testing**



State transition testing: State
table



**White box
techniques**



Use case testing



- Statement testing & Coverage
- Decision testing & Coverage
- The value of statement and decision testing

```
1      IF P > 3
2      THEN
3      X = X + Y
4      ELSE
5      X = X - Y
6      ENDIF
```

White box techniques



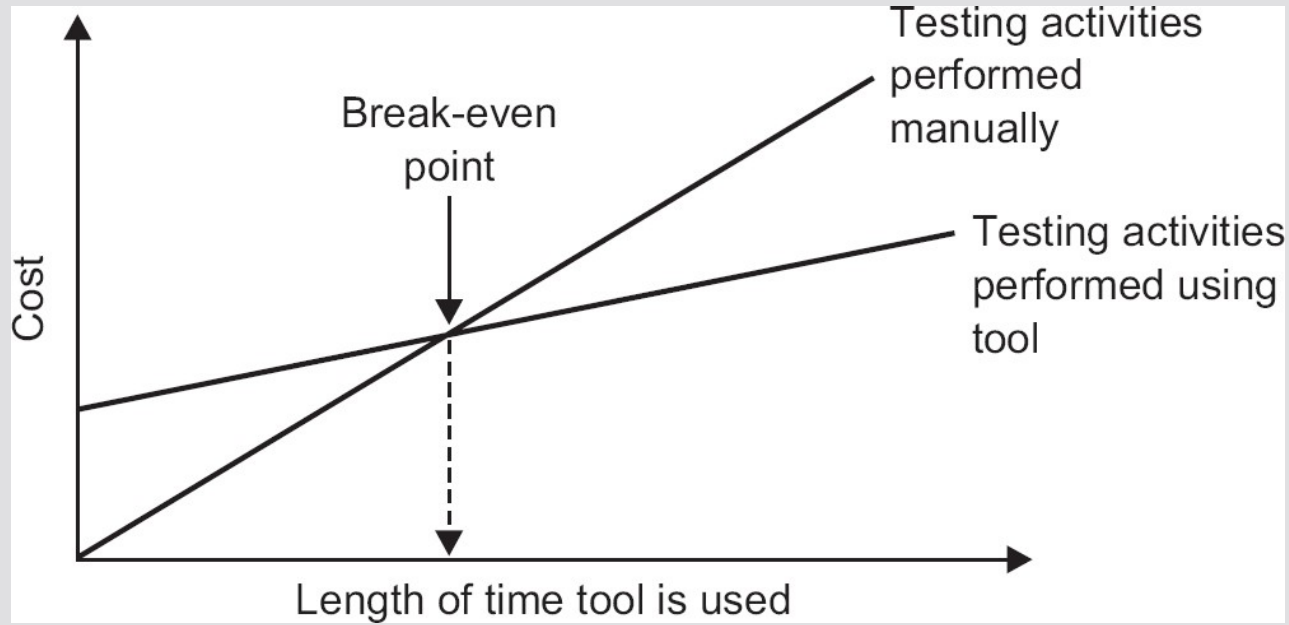
- Error guessing
- Exploratory testing
- Checklist-based

Experience based techniques



- Test organization
- Test manager and tester
- Test planning and estimate
- Reporting an issue

Test managements



**Test management
tool**



What is test tool?

Other tools



- Requirement management
- Incident management
- Configuration management
- Test execution

Test management tool

The End

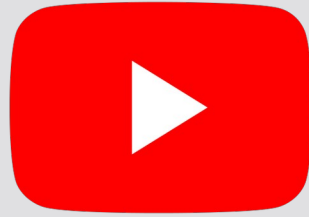


- Static testing tools
- Test design and implementation
- Test execution and logging
- Performance measurement
- Dynamic analysis

Other tools



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- **Thanks for Listening**
- **Thanks for Watching**

The End