Software Testing Foundation
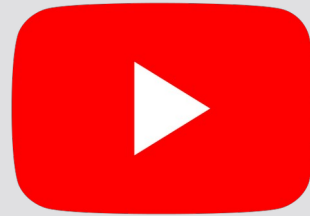
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/RaminZare

Software Testing - An ISTQB-BCS Certified Tester Foundation guide 4th edition

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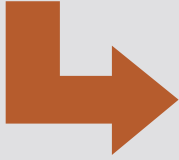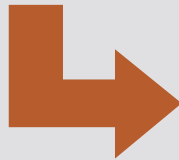ISTQB® has created the world's most successful scheme for **certifying software testers**

https://www.istqb.org/

- some failed projects

Error

Fault (defect)

Failure
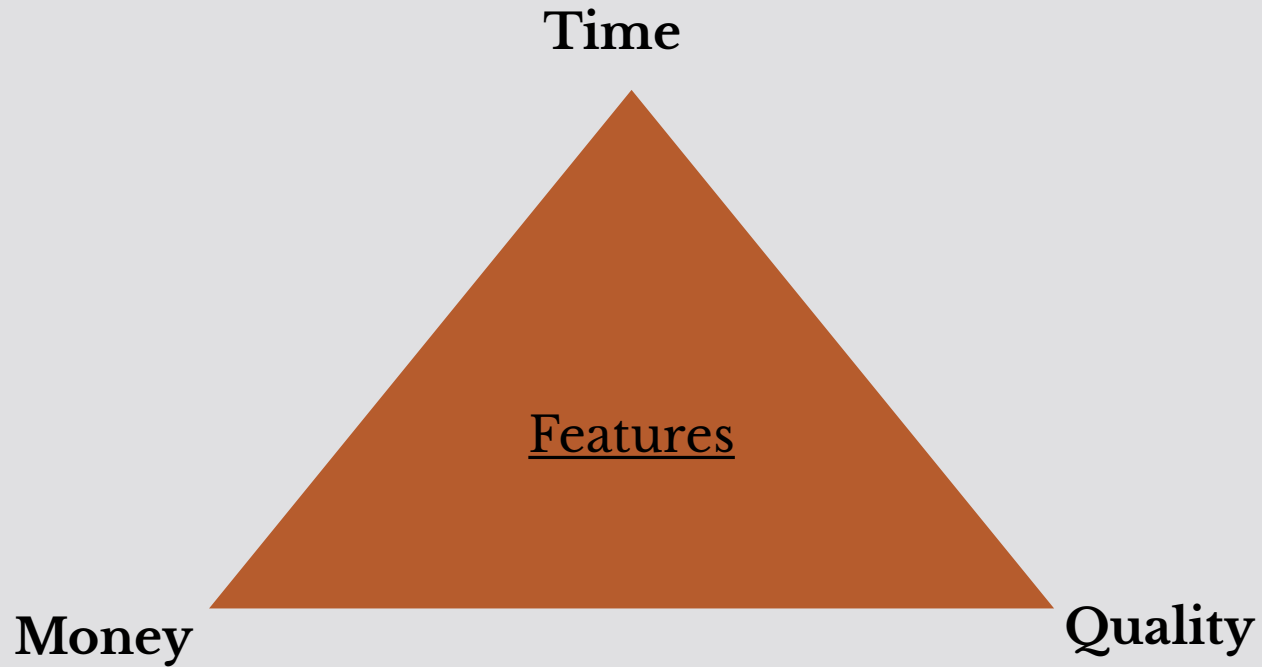
Why software fail?

- Exhaustive testing is not possible
- Testing and risk
- Testing and quality

Keeping Software Under Control

Time

Features

Money

Quality

Resources triangle

Test concepts →

What Testing Is And What Testing Does

- Test basis
- Test condition
- Test cases
- Test procedure

Test concepts

Testing & Debugging

- Testing and quality assurance
- Static testing and dynamic testing
- Testing as a set of techniques

Test concepts

- Testing shows the presence, not absence of defects
- Exhaustive testing is impossible
- Early testing saves time and money
- Defects cluster together
- Be aware of the pesticide paradox
- Testing is context dependent
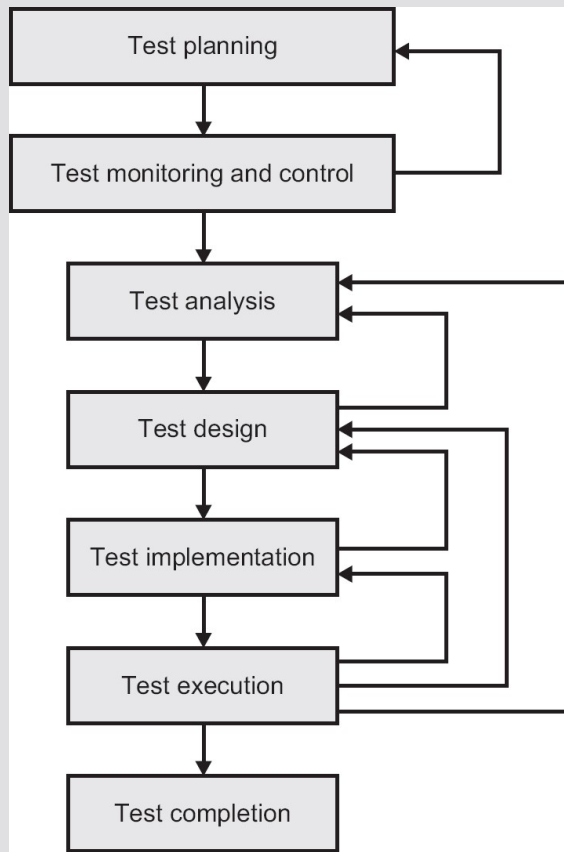- Absence-of-errors is a fallacy

General Testing Principles

- Test process in context
- Test activities and tasks
  - Test planning
  - Test monitoring and control
  - Test analysis
  - Test design
  - Test implementation
  - Test execution
  - Test completion

Test Process

Test Process

The Psychology Of Testing