



# Specification Based Testing – Part 2

## Defect Based Testing

# Objective

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## **Objective**

Apply Defect  
Based Testing  
Technique

# Defect Based Testing



- | Utilizes defect taxonomies to derive test cases

- | A taxonomy is a system of hierarchical categories for classification

- | Defect taxonomies provide a classification of software defects

- | Numerous defect taxonomies exist

- | Typically developed and evolved from defects detected in the past

# Beizer Generic Defect Taxonomy Categories



| Requirements defects

| Feature defects

| Structure defects

| Data defects

| Implementation and  
coding defects

| Integration defects

| System and software  
architecture defects

| Test definition and  
execution defects

| Unclassified defects

# Community-Developed List of Software Weaknesses



| <http://cwe.mitre.org/data/definitions/699.html>

# Defect Based Testing Approach

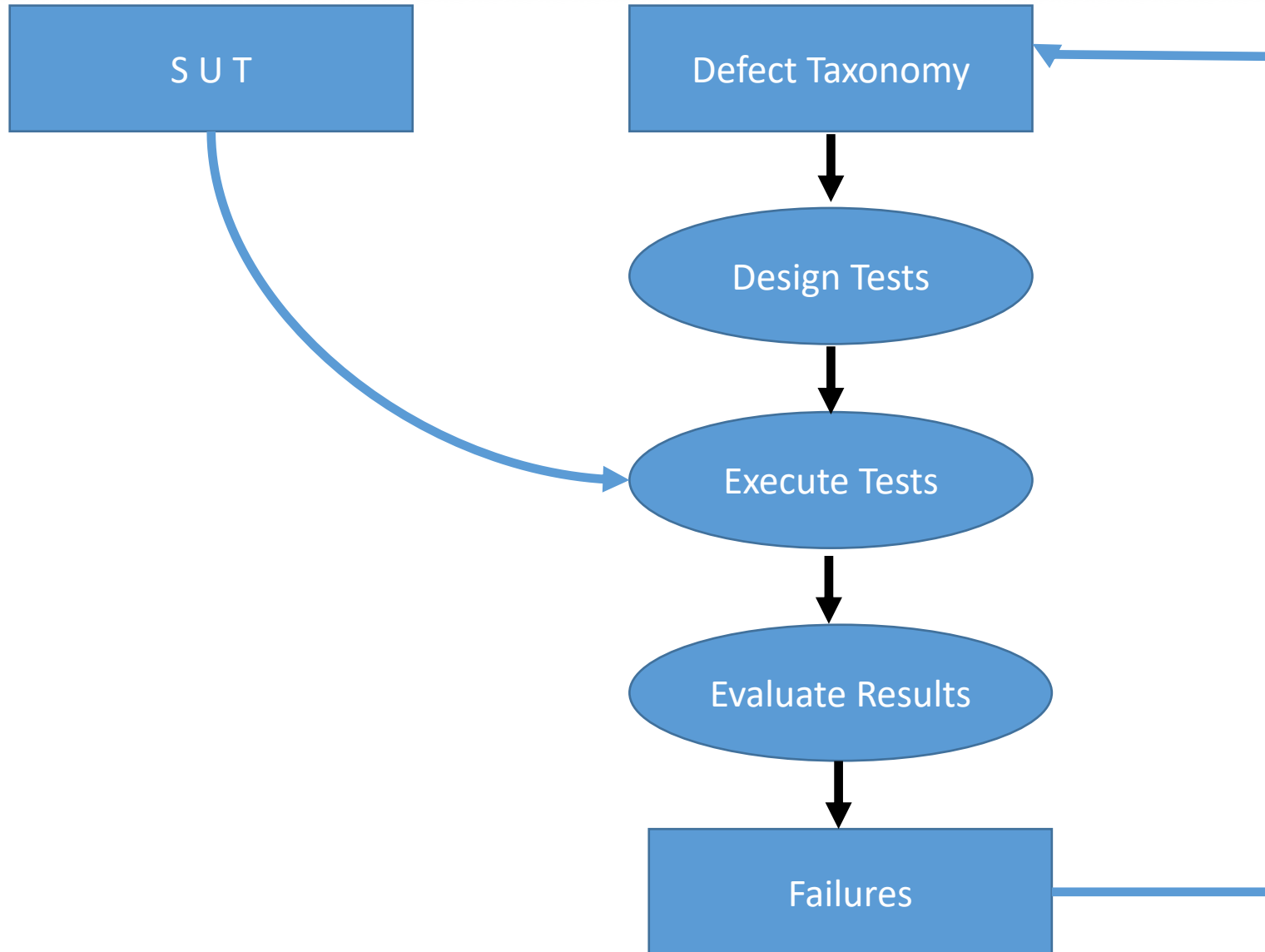


- | Derive test cases to target specific defect categories

- | Can be applied at any level of testing

- | Example: consider developing tests to target divide by zero error in calculation

# Defect Based Testing Process



# Summary

