

PROMPT Software Testing

Test design techniques



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>PROMPT



Test Design Techniques



- Can be seen as functions that, based on a set of rules, generate test cases from software artifacts (e.g., specifications or code)



Test Design Techniques



- Example: Statement Coverage



Test Design Techniques



- Example: **Statement** Coverage



Test requirement/coverage item



Test Design Techniques



- Example: Statement Coverage



Test Design Techniques

...can be classified based on several different aspects

- Type of abstraction
 - Graph-based, logic-based, syntax-based, etc.
- Software engineering artifact
 - Specification-based versus implementation-based
- Level of knowledge of the inner workings of the software
 - Black-box, Gray-box, or White-box



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However, we will start from the perspective of software behaviour