

COM3529 Software Testing and Analysis

Coverage Criteria: Conclusions

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The Pros and Cons of Coverage

- The "Cons"
 - They can generate too many test requirements
 - Not all test requirements are useful
 - Higher coverage doesn't guarantee that more bugs will be found

- The "Pros"
 - Coverage criteria ensure that our test suites have certain properties or strengths
 - Coverage criteria tell us how much testing has been done and when to stop testing



Software Testing Research and Coverage Criteria

- The relationship between actual faults, failures and types of coverage and coverage levels
- Where to concentrate testing in order to find faults and failures
- What the ideal test suite size is
- How to check that a fault has already been repaired, and has not introduced further faults
- Can a fault be automatically repaired?

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