

Midterm topics

(As reviewed by P.Lam in class)

- Faults, errors, failures
- Static vs. dynamic
- Test cases, test requirements
- Exploratory testing (what it is, how to do it)
- Coverage criteria
 - Based on control flow graphs
 - Determinism
 - Statement & branch coverage
 - Finite state machines
 - RT coverage
- Syntax-based testing
 - Fuzzing
 - Mutation
- How much coverage to aim for?
 - JUnit
- How good is mutation?
- How good are other criteria?
- Why tests?
- Principles for writing good test suites
- Writing Selenium web tests