



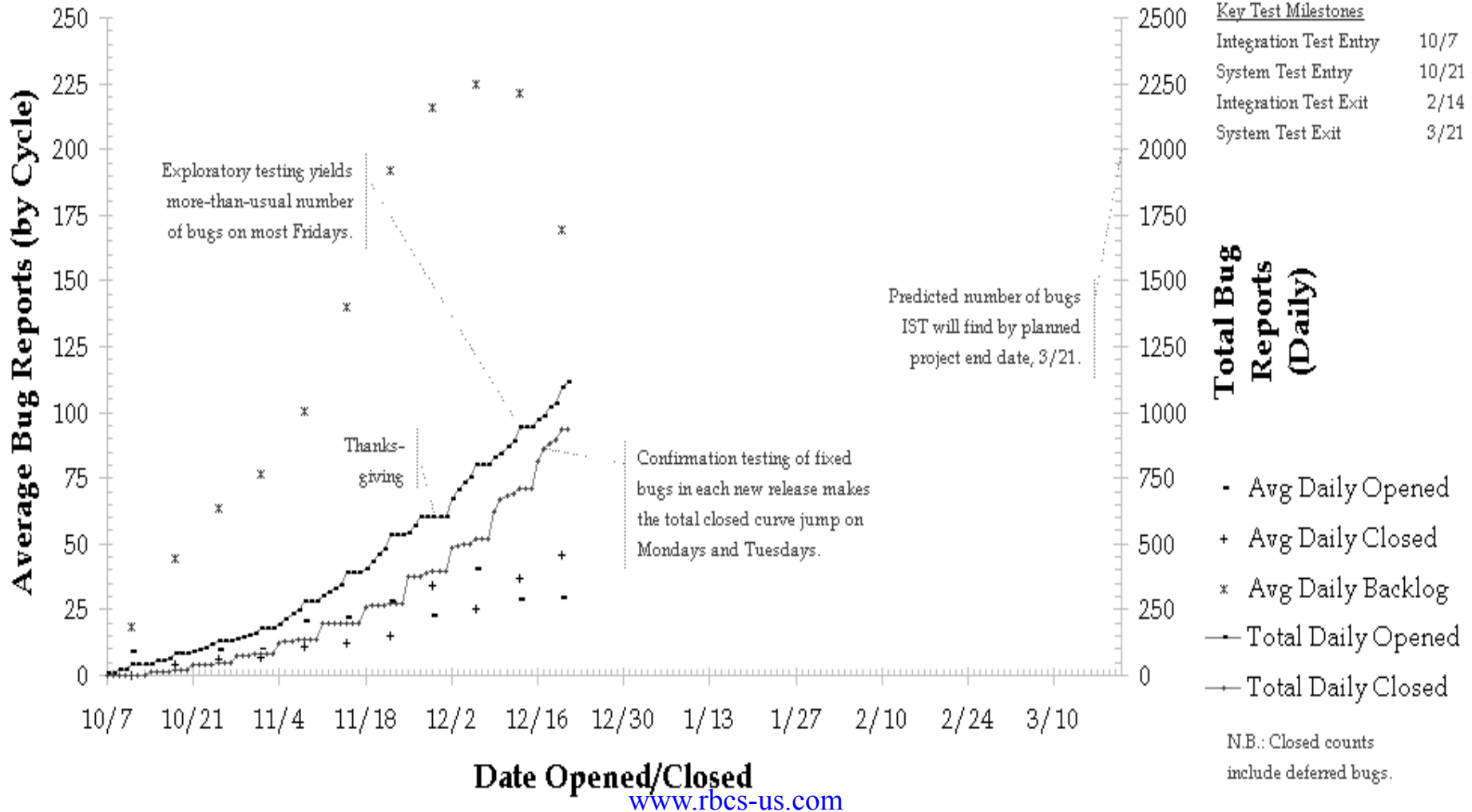
Project Metrics for Testing

✚ Uses

- ✚ To measure the progress of the testing effort on a project
- ✚ To provide the insights to guide where project optimizations might be needed/useful
- ✚ Part of certain test process assessments (e.g., using CTP framework)
- ✚ The most commonly used test metrics
- ✚ Usually included in test dashboards (often over-relied upon)



Sumatra Integration and System Test Execution Phases System Quality Problems Analysis



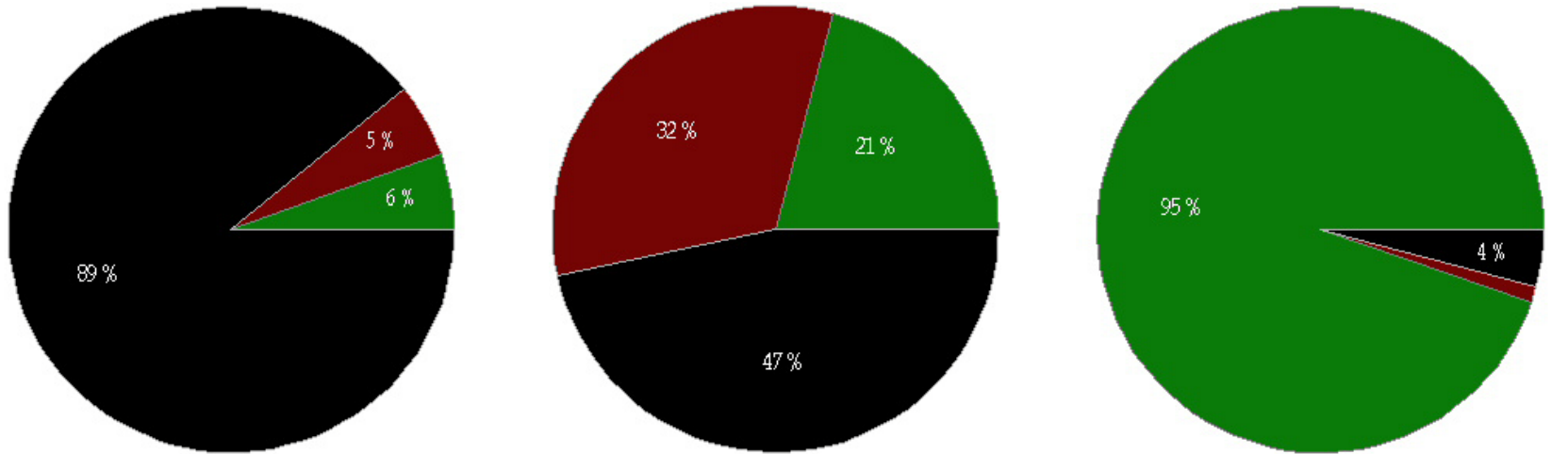


Product Metrics for Testing

- ✚ Uses
 - ✚ To measure the quality and residual quality risk in the product
 - ✚ To provide the insights to guide where product improvements should occur
- ✚ Good testing should measure the quality of the system
- ✚ Not always measured during testing (using project metrics instead)
- ✚ Not always part of testing dashboards (but should be)



Example: Reporting Residual Levels of Risk



Test execution period

Region in green represents risks for which all tests were run and passed and no must-fix bugs were found. Region in red represents risks for which at least one test has failed and at least one must-fix bug is known. Region in black represents other risks, which have no known must-fix bugs but still have tests pending to run.



Conclusions

- ⊕ Metrics can be useful to measure, understand, and manage process, project, and product attributes
- ⊕ Testing metrics are essential for a complete understanding of status
- ⊕ Use a small number of metrics
- ⊕ Use surrogate metrics where necessary
- ⊕ Ensure consistent stakeholder understanding of metrics
- ⊕ Define objectives, then questions, then metrics, then goals
- ⊕ Use the goals to drive meaningful process improvements



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