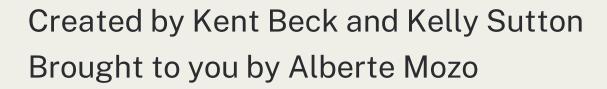
Test Desiderata

SOME PROPERTIES MAKING OUR TESTS MORE VALUABLE





THE ORIGINAL IS BETTER

In <u>testdesiderata.com</u> you'll find 5-minute videos describing each property with Kent Beck and Kelly Sutton.



We'll discuss 12 properties that make our tests better for different reasons.

Some are common sense, others aren't, some may even be controversial.

You won't have them all in all your tests.

Isolated

Tests should return the same results regardless of the order in which they are run.

Composable

I should be able to test different dimensions of variability separately and combine the results.

Deterministic If nothing changes, the test result shouldn't change.

Fast Tests should run quickly.

Writable

Tests should be cheap to write relative to the cost of the code being tested.

Readable

Tests should be comprehensible for reader, invoking the motivation for writing this particular test.

Behavioral

Tests should be sensitive to changes in the behavior of the code under test. If the behavior changes, the test result should change.

Structure-insensitive Tests should not change their result if the structure of the code changes.

Automated Tests should run without human intervention.

Property 10 of 12

Specific

If a test fails, the cause of the failure should be obvious.

Predictive If the tests all pass, then the code under test should be suitable for production.

Property 12 of 12

Inspiring

Passing the tests should inspire confidence.

Isolated Behavioral Composable Structure-insensitive Deterministic Automated Fast Specific Readable Predictive Writable Inspiring

Some properties support each other. Automating tests makes them faster to run.

Some properties interfere with each other. Making tests more predictive of production behavior makes them slower.

Sometimes (and this is the magic), properties only seem to interfere. You can use composability to make tests faster and more predictive.

Thank you!

AND HAPPY TESTING:)



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