

JUnit Pocket Guide

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JUnit API

Infrastructure
Automate tedious parts of tests or assertions
Summarize emotionally more confident
Don't feel rushed
Test-first - confident at all times
Win short term
long term with teammates
A code later who breaking
↓ # of defects
No debugger
test = defect detector
A way to make fewer mistakes
Perfect not a goal, is a verb

Assert

✓ values
assertTrue(x)
assertNull(x)
assertSame(x, y)
assertEquals(x, y)
" " (x, y, Δz)
within error

TestCase

Create subclass
method names: test-method
test-method(self) {
Data1
Data2
call(Data2)
assertEquals(D1, call(O2));
setUp(self) for data used in
failure ≠ errors
assertion ✓ But java in test

Fixtures

void setUp() {
Objects/Data used in tests
tearDown() usually skipped

Test-First Programming

Separate interface from implementation
How does object look from the outside?
Add enough design to pass test stubs
What you want done in future

Debugging Tests

✓ can reproduce defect
Find object creating #
write test on object
✓ pass test when fixed
↓ chance of unfixing the fix
Learning an API

test show how methods used
Show results
Provide ways to use API
✓ assumptions in how package works
update, ✓ no bad changes
story of JUnit

Compiler 5x test code to source
Test framework for small talk
To learn java, ported framework
3hr plane ride

Test infected

less time debugging
more time designing
testing in background
want simple test

indep. objective easier to test
1/3-1/2 writing test
make concrete decisions
leave something broken
provides a starting place