

What does it mean for two objects to compare equal? Kevlin Henney pores over some contracts to find out

FIRST AMONG EQUALS

defines an (in principle) enforceable agreement between two or more parties with respect to a specific undertaking. The same is also true in code. The contract metaphor is an effective way of approaching API design and use: '"A contract is effectively an agreement on the requirements fulfilled by a component between the user of the component and its supplier".

One way of capturing a functional contract is through the use of pre- and postconditions that state what must be true before an operation is to be called, for it to be called correctly, and what must be true after an operation has returned, for it to be considered correct. To consider contracts only with respect to pre- and postconditions, however, offers a slightly limiting and incomplete – albeit common – view of the contract metaphor, although it clearly offers a great deal of coverage, utility and insight.

Comparing two objects for some kind of equality offers fertile ground for exploring different conventions and contracts **.

Beyond pre- and postconditions

The contract for the again method in Java can be phrased most easily and clearly in terms of named constraints, each one stated as a simple truth:

medilections:

in a deposit in that

summetrie:

a. square out if and only if a . equals (a)

transfries.

e.equale to as b.equale co implies a.equale to

covariatent:

equals (b) returns the same as long as a and b are unmodified

main brequedity:

Two objects can be considered equal if they compare neither greater nor less than one another ынымськы единабітуу.

a equations implies a hastened or --

This contract is binding on any override of the colect. **quals method. If you try to state this in terms of preconditions - what must be true before a successful call to **quals - and postconditions - what must be true after a successful call to **quals - from a strictly objectcentric viewpoint you will find a loss of clarity as well as a loss of part of the contract. Assuming that the argument to **quals is named

postcondition where other -- mall: The result is false.

postcondition where other -- other: The result is true.

postcondition otherwise: The result is the same as the result of other regula (thin), and where true them mashcode() --other, mashcode().

As you can see, there is no useful percondition and the postcondition is in part partitioned by the named constraints we had before, but not as clearly. More reading, between the lines is needed to get the full sense of the contract. The consistency constraint is a difficult one to express at the best of times, but its temporal nature means that it cannot be properly expressed as the postcondition of an operation, which describes only what is true at the point of completion of the method call, and nothing beyond.

There is also a subtle loop here: if the result of calling openin is required to be the same as the result of making the same call but with the argument and receiving object switched round, what is the requirement on that second call? It would be the first call. Any literal implementation of this would find itself caught in infinite recursion.

Although the contract for overriding

Facts at a glance

- Contracts can be described in many ways, not just functional pre- and postconditions.
- Working out a contract that describes equality directly takes more care than you might first think.
- Working out a contract describing total ordering takes even more.
- Contracts need to strike a balance between strict necessity and unnecessary strictness.

First Among Equals

Raffaela Di Napoli



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