

System Browser

Kernel-Objects
Kernel-Classes
Kernel-Magnitudes
Kernel-Numbers
Kernel-Text
Kernel-Chronology
Kernel-Methods

instance ? class

Class or method annotation (not selected?)

browse

senders

implementors

versions

inheritance

hierarchy

inst vars

class vars

show...

Smalltalk code (nothing selected?)

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Workspace

"Some code"

1 + 2.

"Other code"

5 * 3.

System Browser: Integer

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instance ? class

BoxedFloat64
SmallFloat64
Fraction
Integer
LargePositiveInteger

-- all --
arithmetic
benchmarks
bit manipulation
comparing
converting
enumerating

*
+
-
/
//
<
<<
<=

class definition for Integer ° 132 instance methods ° 13 class methods ° 1699 total lines of code

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show...

Number subclass: **#Integer**
instanceVariableNames: "
classVariableNames: "
poolDictionaries: "
category: 'Kernel-Numbers'

I am a common abstract superclass for all Integer implementations. My implementation subclasses are SmallInteger, LargePositiveInteger, and LargeNegativeInteger.

There are three implementations of division with remainder. For 'a' and 'b' Integers:
- Floored division, with the quotient rounded towards negative infinity: // and \\ answer 'q' and 'r' such that 'a = bq + r' with 'r' abs < b abs', where 'r' is 0 or has the same sign as 'b';
- Truncated division, with the quotient rounded towards zero: #quot and #rem; answer 'q' and 'r' such that 'a = bq + r' with 'r' abs < b abs';
- Euclidean division, with the quotient rounded towards negative infinity and the remainder non-negative: #div and #mod; answer 'q' and 'r' such that 'a = bq + r' with 'r' abs < b abs'.

Transcript

Installed ChangeSet: 4477-find-scrollSelectionIntoView-JuanVuletich-2020Nov24-15h38m-jmv.001.cs.st
Installed ChangeSet: 4478-MorphicRepairFix-JuanVuletich-2020Nov24-16h50m-jmv.002.cs.st
Installed ChangeSet: 4479-Morph-drawAsError-fixes-JuanVuletich-2020Nov25-15h57m-jmv.001.cs.st
Cuis 5.0 latest update: #4479
----QUIT----(26 November 2020 15:50:35) Cuis5.0-4426.image priorSource: 13222000
Package Theme-Themes successfully installed