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**Features**

**A hierarchy that acts like a class**

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*Bobby Woolf*

An experience report is presented on a simple hierarchy that embodies a number of powerful O-O technologies. How these techniques are successful applications of common design patterns and pattern languages is examined.

**Taking out the garbage**

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*Derek Williams*

Some tools and techniques for detecting, diagnosing, treating, and, most important, avoiding memory size problems caused by "dangling instances."

**Columns**



**Getting Real**

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**The three-tier architecture and server Smalltalk**  
*Jay Almarode*

Partitioning Smalltalk applications between clients and the server (the three-tier architecture) overcomes performance bottlenecks and allows the implementation of shared business objects in a server Smalltalk environment.



**Managing Objects**

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**A case for open development environments**

*Jan Steinman and Barbara Yates*

The Smalltalk market is maturing, and Smalltalk vendors envy the relative ease of supporting shrinkwrap compilers and libraries. A long tradition of access to Smalltalk source code may be disappearing before our eyes.



**Smalltalk Idioms**

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**Farewell and a wood pile**  
*by Kent Beck*

The author presents a frequently successful problem-solving technique and a system development approach parable.

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