



**Multiparadigm Programming in Mozart/Oz:  
Second International Conference, MOZ 2004,  
Charleroi, Belgium, October 7-8, 2004, Revised  
Selected Papers (Lecture Notes in Computer  
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To many readers, Mozart/Oz represents a new addition to the pantheon of programming systems. One way of evaluating a newcomer is through the eyes of the classics, for example Kernighan and Pike's "The Practice of Programming," a book that concludes with six "lasting concepts": simplicity and clarity, generality, evolution, interfaces, automation, and notation. Kernighan and Pike concentrate on using standard languages such as C and Java to implement these concepts, but it is instructive to see how a multiparadigm language such as Oz changes the outlook. Oz's concurrency model yields simplicity and clarity (because Oz makes it easier to express complex programs with many interacting components), generality, and better interfaces (because the data flow model automatically makes interfaces more lightweight). Constraint programming in Oz again yields simplicity and clarity (because the programmer can express what needs to be true rather than the more complex issue of how to make it true), and offers a powerful mathematical notation that is difficult to implement on top of languages that do not support it natively. Mozart's distributed computing model makes for improved interfaces and eases the evolution of systems. In my own work, one of the most important concerns is to be able to quickly scale up a prototype implementation into a large-scale service that can run reliably on thousands of computers, serving millions of users. The field of computer science needs more research to discover the best ways of facilitating this, but Mozart provides one powerful approach. Altogether, Mozart/Oz helps with all the lasting concepts except automation, and it plays a particularly strong role in notation, which Kernighan and Pike point out is an underappreciated area. I believe that providing the right notation is the most important of the six concepts, one that supports all the others. Multiparadigm systems such as Oz provide more choices for notation than single-paradigm languages.

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