

# Publications related to Chez Scheme

- [1] Abdulaziz Ghuloum and R. Kent Dybvig. Fixing letrec (reloaded). In *Proceedings of the 2009 Workshop on Scheme and Functional Programming*, 57–65, 2009. Describes how Chez Scheme and Ikarus handle `letrec` and `letrec*` expressions efficiently while taking advantage of the R6RS prohibition on invoking the continuation of a right-hand side more than once.  
full text: <http://www.cs.indiana.edu/~dyb/pubs/letrec-reloaded.pdf>.  
abstract: <http://www.cs.indiana.edu/~dyb/pubs/letrec-reloaded-abstract.html>
- [2] R. Kent Dybvig. *Chez Scheme Version 8 User's Guide*. Cadence Research Systems, 2010. User's guide and reference manual for Chez Scheme Version 8. Complements [3].  
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bibtex: <http://www.cs.indiana.edu/~dyb/pubs/csug8.bib>
- [3] R. Kent Dybvig. *The Scheme Programming Language*, fourth edition. MIT Press, 2009. Introduction and reference manual for R6RS Scheme with numerous short and extended examples and exercises.  
full text: <http://www.scheme.com/tspl4/>.  
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- [4] Michael D. Adams and R. Kent Dybvig. Efficient nondestructive equality checking for trees and graphs. In *Proceedings of the 13 ACM SIGPLAN International Conference on Functional Programming*, 179–188, 2008. An efficient algorithm for the nonterminating equal? R6RS procedure  
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abstract: <http://www.cs.indiana.edu/~dyb/pubs/equal-abstract.html>.  
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full text: <http://www.cs.indiana.edu/~dyb/pubs/implicit-phasing.pdf>.  
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- [6] R. Kent Dybvig. Syntactic abstraction: the syntax-case expander. In Andy Oram and Greg Wilson, editors, *Beautiful Code: Leading Programmers Explain How They Think*, chapter 25, 407–428. O'Reilly and Associates, June 2007. Provides a description and examples of the syntax-case expansion algorithm  
full text: <http://www.cs.indiana.edu/~dyb/pubs/bc-syntax-case.pdf>.  
bibtex: <http://www.cs.indiana.edu/~dyb/pubs/bc-syntax-case.bib>
- [7] R. Kent Dybvig. The development of Chez Scheme. In *Proceedings of the Eleventh ACM SIGPLAN International Conference on Functional Programming*, 1–12, September 2006. A brief history of Chez Scheme's development  
full text: <http://www.cs.indiana.edu/~dyb/pubs/hocs.pdf>.  
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- [8] R. Kent Dybvig. *Chez Scheme Version 7 User's Guide*. Cadence Research Systems, 2005. User's guide and reference manual for Chez Scheme Version 7. Complements [10].  
full text: <http://www.scheme.com/csug7/>.  
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- [9] Oscar Waddell, Dipanwita Sarkar, and R. Kent Dybvig. Fixing letrec: A faithful yet efficient implementation of Scheme's recursive binding construct. *Higher-order and symbolic computation*, 18(3/4):299–326, 2005. Describes how Chez Scheme handles `letrec` expressions efficiently and with full enforcement of the revised report's restriction preventing evaluation of left-hand-side variable references

and assignments before the right-hand sides have been evaluated.  
full text: <http://www.cs.indiana.edu/~dyb/pubs/fixing-letrec.pdf>.  
abstract: <http://www.cs.indiana.edu/~dyb/pubs/fixing-letrec-abstract.html>.  
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- [11] Oscar Waddell and R. Kent Dybvig. Extending the scope of syntactic abstraction. In *Conference Record of the Twenty Sixth Annual ACM Symposium on Principles of Programming Languages*, 203–213, January 1999. Describes the Chez Scheme module system and its interaction with the syntax-case expander.  
full text: <http://www.cs.indiana.edu/~dyb/pubs/popl99.pdf>.  
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full text: <http://www.cs.indiana.edu/~dyb/pubs/call1cc.pdf>.  
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full text: <http://www.cs.indiana.edu/~dyb/pubs/fple95.pdf>.  
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full text: <http://www.cs.indiana.edu/~dyb/pubs/LaSC-5-4-pp295-326.pdf>.  
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full text: <http://www.cs.indiana.edu/~dyb/pubs/LaSC-3-3-pp229-244.pdf>.  
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